



COURSE SELECTION GUIDE

2013-2014

TABLE OF CONTENTS

| | |
|---|----|
| Introduction | 2 |
| General Information | 3 |
| Special Programs | 5 |
| Graduation Requirements For Each Graduating Class | 7 |
| Career Pathways | 10 |
| Course Offerings | |
| Art | 22 |
| Business Education | 24 |
| English | 28 |
| Family & Consumer Science..... | 34 |
| Foreign Language | 36 |
| Health | 39 |
| Interdisciplinary Education..... | 40 |
| Mathematics | 41 |
| Music | 44 |
| Physical Education | 46 |
| Science | 48 |
| Social Studies | 52 |
| Technology | 56 |

Revised 12/12

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 2013-2014 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. 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

NOTICE: 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 Judith Christiansen, Title IX Coordinator, or Kim Williams, Section 504 Coordinator, Horseheads Central School District, One Raider Lane, Horseheads, New York 14845, (607) 739-5601.

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 more rigorous courses.

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.

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.

GENERAL INFORMATION

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 & 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

- Communications & Media Careers
- 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 2014, 2015, 2016, 2017 (Determined when a student first enters ninth grade)

Course Requirements:

| Local Diploma | Regents Diploma | Advanced Regents Diploma |
|--|--|--|
| 4 Credits English | 4 Credits English | 4 Credits English |
| 4 Credits Social Studies | 4 Credits Social Studies | 4 Credits Social Studies |
| 3 Credits Mathematics | 3 Credits Mathematics | 3 Credits Mathematics |
| 3 Credits Science | 3 Credits Science | 3 Credits Science |
| 1 Credit Fine Arts | 1 Credit Fine Arts | 1 Credit Fine Arts |
| 1 Credit Health | 1 Credit Health | 1 Credit Health |
| 3 Credits Physical Education | 3 Credits Physical Education | 3 Credits Physical Education |
| 1 Credit Foreign Language sequence/elective credits | 1 Credit Foreign Language sequence/elective credits | *3 Credits Foreign Language sequence/elective credits |
| Total: 23 Credits | Total: 23 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

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. Students are typically scheduled during their activity period on an every other day basis.

Competency Requirements Class of 2014

Local Diploma

Available only to students with disabilities, i.e., those with an IEP or 504 Plan**

Required Exams:

English Lang Arts Regents Exam
passing score of 55-64

Integrated Alg Regents Exam
passing score of 55-64

Global His & Geo Regents Exam
passing score of 55-64

U.S. History Regents Exam
Passing score of 55-64

Science Regents Exam
passing score of 55-64

Regents Diploma

Required Exams:

English Lang Arts Regents Exam
passing score of 65 & above

Integrated Alg Regents Exam
passing score of 65 & above

Global His & Geo Regents Exam
passing score of 65 & above

U.S. 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

**Integrated Algebra Regents Exam
Geometry and Algebra II/Trig
Regents Exam**
passing score of 65 & above

Global His & Geo Regents Exam
passing score of 65 & above

U.S. History Regents Exam
passing score of 65 & above

Two Science Regents Exams
passing score of 65 & above

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

***Students acquiring 5 specific units of credit in CTE or the Arts may be exempt.**

****The Safety Net option of passing the RCT's will continue to be available to classified students. In order for students with a 504 Plan to utilize the safety net option their 504 Plan must specifically state that the student is safety net eligible as determined by the committee.**

Competency Requirements Class of 2015, 2016, 2017 (Subject to change based on NYS Board of Regents Approval)

| Local Diploma Available only to students w/ disabilities, i.e. those with an IEP or 504 Plan | Regents Diploma | Advanced Regents Diploma |
|--|---|---|
| <u>Required Exams</u> | <u>Required Exams:</u> | <u>Required Exams:</u> |
| English Lang Arts Regents Exam Passing score of 55-64 | English Lang Arts Regents Exam passing score of 65 & above | English Lang Arts Regents Exam passing score of 65 & above |
| Integrated Alg Regents Exam Passing score of 55-64 | Integrated Alg Regents Exam passing score of 65 & above | Integrated Alg Regents Exam passing score of 65 & above |
| | | Geometry and Algebra II/Trig Regents Exam passing score of 65 & above |
| Global His & Geo Regents Exam Passing score of 55-64 | Global His & Geo Regents Exam passing score of 65 & above | Global His & Geo Regents Exam passing score of 65 & above |
| U.S. History Regents Exam Passing score of 55-64** | U.S. History Regents Exam passing score of 65 & above | U.S. History Regents Exam passing score of 65 & above |
| Science Regents Exam Passing score of 55-64** | Science Regents Exam passing score of 65 & above | Two Science Regents Exams passing score of 65 & above |
| | | *Foreign Language Exam passing score of 65 & above |

***Students acquiring 5 specific units of credit in CTE or the Arts may be exempt.**

****For Students with Disabilities Compensatory Safety Net: Scores between 45-54 on one or more of the five required Regents Exams, other than English Language Arts or Math, but scores 65 or higher on one or more of the required exams.**



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 |
|---|---|---|

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 | Ecologist | Health & Safety Sanitarian | Agricultural Commodity Broker |
| Food & Drug Inspector | Botanist | Poultry Manager | Park Managers | Hazardous Materials Handler | Farm/Ranch Manager |
| Toxicologist | Tree Surgeon | Embryo Technologist | Water Monitoring Technician | Water Environment Manager | Agricultural Economist |
| Biochemist/ Nutritionist/ Dietician | Education & Extension Specialist | Veterinarian/ Vet Technician | Natural History Interpreter | Toxicologist | Livestock Buyer/Seller |
| Agricultural Sales | Golf Course Superintendent | Feed Sales Representative | Fish & Game Officer | Solid Waste Disposer/Recycler | Feed/Farm Supply Store |
| MeatCutter/ Grader | Greenhouse Manager | Livestock Producer | Forest Manager | Environmental Compliance Assurance Manager | Agricultural Salesperson |
| Food & Fiber Engineer | Forest Geneticist | Equine Manager | Geologist | Water Quality Manager | Animal Health Products Distributor |
| Produce Buyer | Bioinformatics Specialist | Pet Shop Owner | Fish Hatchery Manager | | |
| Meat Processor | Farmer/ Rancher | Reproductive Physiologist | Commercial Fisherman | | |
| 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"> ~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 | <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 ~The Food Experience ~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 ~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 |
|---|---|

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 |
|--|--|---|

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 | | | |

Pathway to... Arts, Humanities & Architecture

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

- ~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
- ~New Visions Communications

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

ARCHITECTURE:

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

- GST BOCES Programs:
- ~Audio/Media Design
- ~Fashion Design
- ~New Visions Communications
- ~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 | |



Business, Hospitality & Information Systems

Pathway to...

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 |
|---|---|---|

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)

ACCOUNTING, FINANCIAL SERVICES, BUSINESS MANAGEMENT & ADMINISTRATION

- ~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:

- ~New Visions Innovation, Leadership, & Business

INFORMATION TECHNOLOGY, ADMINISTRATIVE & INFORMATION SUPPORT

- ~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:

- ~CISCO Systems
- ~Digital Media Arts
- ~New Visions Innovation, Leadership, & Business

MARKETING, SALES/SERVICES, HOSPITALITY/TOURISM:

- ~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:

- ~Digital Media Arts
- ~Culinary Arts
- ~Aviation Studies
- ~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 |
|--|---|---|

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 | Nutritionist | Medical Librarian | Hospital Maintenance Engineer | Molecular Biologist |
| Optometrist | Pathologist | 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

- Leadership/initiative
- Teamwork
- Communication Skills

- Analytical Skills
- Working with Data
- Reading Comprehension

- Critical Thinking
- Public Speaking
- Problem Solving

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 | Firefighter | <i>College/University</i> | Mayor/ Governor |
| ~Marriage | Rescue Worker | Child Care Director | Mayor/ Governor |
| ~Mental Health | Security Director | Coach | Cryptographer |
| ~Rehabilitation | Private Investigator | Teacher Aide | Foreign Service Officer |
| ~Residential | Armored Car Guard | Child Life Specialist | Diplomatic Officer |
| ~School | Computer Forensics Specialist | Superintendent | Census Enumerator |
| ~Substance Abuse | Criminal Investigator | Principal | Chief of Vital Statistics |
| Social & Human Services Assistant | Attorney | Instructional Coordinator | Assessor |
| Cosmetologist | Animal Control Officer | Curriculum Developer | Auditor |
| Funeral Director | Park Ranger | Instructional Media Designer | Tax Examiner |
| Personal Trainer | Judge | Social Worker | Code Inspector |
| Certified Financial Planner | Paralegal | School Counselor | Boarder Inspector |
| Customer Service Rep. | | 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> |
|--|--|--|--|
| <ul style="list-style-type: none"> ~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 | <ul style="list-style-type: none"> ~Public Speaking ~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 | <ul style="list-style-type: none"> ~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 | <ul style="list-style-type: none"> ~Public Speaking ~ACE Perspectives of Drugs ~Criminal Justice ~Introduction to Psychology ~Critical Issues/ World at War ~Geography ~American Civil War ~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

- | | | |
|--|---|---|
| <ul style="list-style-type: none"> ~Arctic League ~American Red Cross ~Church Organizations/Mission Trips ~Food Pantries/Soup Kitchens ~Habitat for Humanity ~Horseheads/Big Flats Youth Bureaus ~Summer Cohesion | <ul style="list-style-type: none"> ~Hospital Volunteer ~Humane Society/S.P.C.A. Volunteer ~Library Volunteer ~Nursing Home/Elder Care Centers ~Reins of Hope ~Meals on Wheels ~Chemung ARC | <ul style="list-style-type: none"> ~Salvation Army Volunteer ~Summer Camp Counselor ~Summer Cohesion Program ~Super Saturday Teacher ~Special Olympics ~Volunteer Firefighter |
|--|---|---|

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 |
|--|---|---|

Potential Career Clusters & Job Titles

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

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-A
- ~DDP-B
- ~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 Engineering & Innovation

ENGINEERING & TECHNOLOGY:

- ~DDP-A
- ~DDP-B
- ~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:

- ~Aviation
- ~CISCO Systems
- ~New Visions Innovation, Leadership, & Business

TRANSPORTATION & LOGISTICS

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

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

GST-BOCES Programs:

- ~Aviation
- ~Conservation
- ~Diesel Equipment Technology

SCIENCE & MATHEMATICS:

- ~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

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

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 printmaking class will enable you to bring your own expression into creating multiples in art. You will master the basics of printmaking and printing presses while seeing your work translated into exciting two-dimensional forms.

Prerequisites - Studio in Art 1 and 2

G013 Design in Clay **1/2 Credit - 1 Semester**

This course is for the student interested in working with clay. It includes the creation of ceramic sculpture and functional objects, the use of the potter's wheel, and the properties of glazes and other types of decoration. Students will experiment with various methods of handling clay, the history of ceramics, and the contemporary use of clay.

Prerequisites - Studio in Art 1 and 2

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 is for the student interested in creating both functional and nonfunctional objects in a variety of media. Projects include origami, paper sculpture, papermaking, bookmaking, weaving, ceramics, and jewelry-making using plastics and FIMO.

Prerequisites - Studio in Art 1 and 2

ART DEPARTMENT

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 involves three-dimensional experimentation with forms, materials, and concepts. This course will introduce you to a wide range of sculptural media including paper, cardboard, clay, wood, and stone. You will study historical and contemporary sculptors in the classroom and on field trips.

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

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**

This course will offer the advanced art student an opportunity to assemble a portfolio of work and support materials for use in college admissions, job interviews, and art competitions. New works of art will be created to strengthen the portfolio. Matting, taking slides, and writing a resume will also be covered.

Prerequisite - Drawing and Painting III

G780 AP Art History **1 Credit - 1 Semester**

This course is designed to provide the same benefits to secondary school students as those provided by an introductory college course in art history: an understanding and knowledge of architecture, sculpture, painting, and other art forms within cultural and historical contexts. In the course, students examine major forms of artistic expression from the past and the present from a wide variety of cultures. They learn to look at works of art critically, with intelligence and sensitivity, and to analyze what they see.

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.

J041 Computer Applications 1 Semester - 1 Credit

Students will have the opportunity to meet the benchmarks of the district's Technology Plan with this course. This course is for students who would like to develop keyboarding and computer skills.

Students become familiar with the fundamentals of word processing (Microsoft Word), communication skills, databases (Microsoft Access), spreadsheets (Microsoft Excel), and presentation software (PowerPoint).

This course is open to all students. Students are evaluated through weekly tests on production work, communication skills, homework, and a final examination.

BUSINESS DEPARTMENT

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 a 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 give first hand experiences and valuable information.

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

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

Do you know your rights in a contract, on the job, or in a marriage? This course is designed to develop a respect and understanding of business law and law enforcement as they affect one's personal, family, and occupational life. The course provides a better understanding of one's responsibilities as well as rights under the law and in business contracts. Many forms of consumer protection under the law and safeguards against discrimination in employment and housing are incorporated into the course. Court cases as seen in media are used in class discussions and projects to develop reasoning and problem solving skills.

Students are evaluated on the basis of projects, quizzes, unit exams, homework, and a final exam.

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

Students will study and apply principles to create web pages utilizing Dreamweaver software and learn Web page development techniques using HTML, XHTML, and web site authorizing software. Skills necessary to build, deploy, and manage professional web pages will be presented. Topics include basic tags and more advanced features, emphasizing accessibility, compatibility, and Internet trends.

Students will be evaluated on class participation, cooperative learning exercises, projects, screen evaluations, and written tests. Guest speakers and field trips will also be incorporated into the curriculum.

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

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 evaluations, tests, hands on projects, capstone project, and personal website creations.

BUSINESS DEPARTMENT

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

Take a journey of discovery into the cultures, customs, business operating functions, and challenges of the global economy. Students will gain valuable knowledge of geography, international trade, cultural differences, communication, transportation, world currencies, and international laws. The following computer skills will be incorporated through the course: Web searches, Excel, Inspiration, and Microsoft Publisher.

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

J014 Career Pathways 1 Semester - 1/2 Credit

Emphasis will be placed on understanding the process of selecting a career from start to finish. Students will be encouraged to explore all facets of the six established pathways using a variety of sources in order to eliminate the "tunnel vision" that sometimes occurs at this age. The following will be incorporated in this course: Web searches, PowerPoint, Word, Access, Excel, and Publisher.

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

J015 College Computer Concepts 1 Semester - 1/2 Credit

Learn how to format letters, memos, tables, and reports and improve your skill of touch typing using Microsoft Office Suite. Access (database), Excel (spreadsheets), and PowerPoint will also be introduced.

J016 Notetaking 1 Semester - 1/2 Credit

Take the stress out of taking notes in college. c u red ts? Students will develop minimum competency in an alphabetic shorthand system and acquisition of shorthand speed and transcription skills.

Use of palm pilots will be incorporated into the curriculum.

ENGLISH DEPARTMENT

A550 English 9 1 Semester - 1 Credit

This required freshman year course will focus on the four essential standards of the New York State curriculum: listening, speaking, reading, and writing. 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, a play, poems, nonfiction, and novels); students must be prepared to complete a significant portion of the reading outside of class. All students will study Shakespeare's tragedy *Romeo and Juliet* and the novel, *To Kill a Mockingbird*. Regular composition work will be assigned, with a number of essays requiring a rewrite. Preliminary preparation for the junior year Comprehensive 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 and library visits, students will utilize the framing components of the M.L.A. style research paper to produce a speech used as the final exam speaking component. The course will culminate with a local final examination that will include a listening exercise, a speech, a reading comprehension task, and a literature-based essay.

A650 English 10 1 Semester - 1 Credit

This required sophomore year course will focus on the four essential standards of the New York State curriculum: listening, speaking, reading, and writing. 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, a play, poems, nonfiction, and novels); students must be prepared to complete a significant portion of the reading outside of class. All students will study Shakespeare's tragedy *Julius Caesar*; novels may include one or more of the following titles:

A Tale of Two Cities (Dickens), *The Lord of the Flies* (Golding), *A Separate Peace* (Knowles), *Animal Farm* (Orwell), *Night* (Weisel), and *Ethan Frome* (Wharton). Regular composition work will be assigned, with a number of essays requiring a rewrite. Continued preparation for the junior-year Comprehensive 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 and library visits, students will produce a 3-5 page minimum (body of the paper) M.L.A.-style research paper. The course will culminate with a local final examination that will include a listening exercise, a speech, a reading comprehension task, and a literature-based essay.

Prerequisite: English 9

A750 American Literature & Composition 1 Semester - 1 Credit

This required junior year course will focus on the four essential standards of the New York State English Language Arts curriculum: listening, speaking, reading, and writing. 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. The course covers several literary genres: plays, novels, short stories, poems, and non-fiction. Student writing evolves naturally from the literature being studied; expository and persuasive compositions are stressed. Vocabulary units will be infused to help students build a sophisticated and extensive vocabulary with which to express themselves precisely in their speaking and writing activities. Final preparation for the New York State Comprehensive Examination in English will be offered throughout this course. An MLA style research paper is assigned as one-half of the final exam. A formal speaking component and a listening passage will comprise the other half of the final exam.

Prerequisites: English 9 and English 10

ENGLISH DEPARTMENT

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

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) 2 Semesters - 6 Credits (CCC) ENGL 1010 – College Comp I ENGL 1020 – College Comp II

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

ENGLISH DEPARTMENT

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 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.

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

**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.

ENGLISH DEPARTMENT

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.

A801 Mythology

1 Semester - 1 Credit

Offered every other year

Offered: 2014-2015

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.

ENGLISH DEPARTMENT

A804 Journalism
1 Semester - 1 Credit
Offered every other year
Offered: 2013-2014

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 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: 2013-2014

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: 2013-2014

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.

ENGLISH DEPARTMENT

A853 Public Speaking
1 Semester - 1 Credit
Offered every other year
Offered: 2014-2015

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.

A857 British Literature
1 Semester - 1 Credit
Offered every year

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 one act and full length plays 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. In addition, field trips may be taken to local stage productions. Course evaluation will include performance assessments, written assignments, notebook, and classroom participation. The final exam will be a project.

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**

This course initiates the student into the language and culture of France and French-speaking countries with vocabulary and grammar on a beginning level. The student will build listening, reading, writing, and speaking skills to a beginning or novice level. The students will be evaluated based on homework, quizzes, tests, and a final proficiency examination. Quizzes and tests will include all skill areas.

E551 French II **1 Semester - 1 Credit**

This course continues with the skills presented in level one with more instruction in the target language. Reading, writing, speaking, and listening will be more advanced. Grammar preparation will be more intensive, compositions, and listening exercises will be longer, chapter texts will be read, cultural material will be more sophisticated, pronunciation will be practiced, and speaking will be guided in the direction of possible situations encountered on the Comprehensive Final Examination or Regents equivalency credit. Students will be evaluated through homework, quizzes, tests, projects, and a final examination.

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

E651 French III **1 Semester - 1 Credit**

The course provides a continuation of the progressive development of the four communication skills: listening, speaking, reading, and writing. French culture is studied in the target language and will continue to cover France and French-speaking countries around the world. More of the course will be instructed in French, preparing students for advanced language study. Students will continue to improve pronunciation skills and read chapter texts in French. Intensive preparation for the four sections of the Comprehensive Regents Equivalency Final Examination will be undertaken. Students will

be evaluated throughout the year with homework, composition, quizzes, tests, projects, 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 intermediate 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 French civilization as a major theme. This course includes a thorough analysis of the language through discussions of grammar and vocabulary and enhancing expression through composition, oral reports, and class discussions and conversations.

The class is conducted primarily in the target language and students are required to speak in the target language simulating a true college level language course. There is a weekly lab component and many listening and speaking activities are done in the computer lab. 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 2180 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 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 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 also required to complete a writing journal of sample 100 word compositions and letters prior to sitting for the Comprehensive Exam. 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 2180 Comp and Conversation

This course is designed as an AP 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.

E890 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 IV

HEALTH EDUCATION DEPARTMENT

P740 Health Education 1 Semester - 1 Credit

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

The course content is made up of units on Mental and Emotional Health, Wellness, Nutrition, Substance Use/Abuse (Alcohol, Tobacco, Other Drugs), Relationships, Physiology, 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 will explore the motivation for drug use and abuse and identify 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: Health Education

INTERDISCIPLINARY EDUCATION

F040 Career & Financial Management 1 Semester - 1 Credit

Students will have the opportunity to explore different career choices based on their interests and abilities. Guest speakers and resource community people are employed to help students focus and make wise lifelong decisions. Video and CDs with teaching guides are used to enhance and empower students' achievement in real life situations and applications. The Internet is also used to expose and emphasize current job market and career trends. Students will be encouraged to develop critical thinking as they become more responsible workers and citizens. Checking accounts, budgeting, banking, investments, insurance, mortgages, renting, payroll, and other life skills including the job application process will be explored throughout the course of the semester.

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

This course exposes high school students to proven strategies which promote academic, professional, and personal success in college and throughout life. Course topics include the following:

- Understanding the College Environment and Utilizing College Resources
- Embracing Responsibility: becoming an active member of the learning community; balancing freedom with responsibility; the importance of self-advocacy and assertiveness; the role of self-efficacy; the impact of an internal locus of control
- Developing Learning/Study Skills: time management; learning styles; research skills; memory strategies; note-taking; reading textbooks; test-taking and critical thinking

- Defining Personal Strengths: developing resiliency; adaptive coping skills; decision-making and problem-solving skills, goal-setting; motivational strategies, and personal values clarification
- Promoting Physical and Emotional Wellness: stress and stress management, sleep needs, nutrition, physical exercise; leisure needs; developing social support and a connection to the community

This course is highly student-centered and participative in nature. The students will participate in many in-class interactive exercises. Furthermore, journaling of these exercises is an intricate course requirement. Course grade is based upon class participation, exams, journal writing, and a comprehensive final exam.

This course is open to juniors and seniors.

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

MATHEMATICS DEPARTMENT

D542 Algebra Skills 1 Semester -1 Credit

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

D551 Integrated Algebra 1 Semester - 1 Credit

This course deals with the properties of real numbers, linear and quadratic equations (solving and applications), monomial and polynomial factoring, ratios and proportions, and probability and statistics. The students will solve problems in a wide variety of disciplines. The New York State Integrated Algebra 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 Skills.

D642 Geometry Skills 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 Integrated Algebra course.

D651 Geometry 1 Semester 1 Credit

This course is centered on deductive reasoning, proofs, and supporting theorems. Triangles, quadrilaterals, and circles will be investigated. Aspects of two-dimensional and three-dimensional figures will be explored. The New York State Geometry Regents Exam will be given at the conclusion of this course.

Prerequisite: Successful completion of the Integrated Algebra course and NYS Integrated Algebra Exam.

Recommendation: A final average of 85 or above in Integrated Algebra and if the Geometry Skills course was taken, a passing grade in Geometry Skills.

D742 Algebra 2/Trigonometry Skills 1 Semester - 1 Credit

The goals of this course are to strengthen the algebra skills of students who intend to take Algebra 2/Trigonometry. The course will introduce the connection between algebra and trigonometry and expand their knowledge of trigonometry beyond right triangle trigonometry in order to ease the transition into Algebra 2/Trigonometry. Additional topics such as complex numbers, functions, and logarithmic and exponential functions will be discussed. A department final will be administered.

Prerequisite: Successful completion of the Integrated Algebra and Geometry courses.

D751 Algebra 2/Trigonometry 1 Semester - 1 Credit

This course is the capstone of the three units of credit required for a Regents diploma. It is a continuation and extension of the two courses that preceded it. While developing the algebraic techniques that will be required of those students that continue their study of mathematics, this course is also intended to continue developing alternative solution strategies and algorithms. Within this course the number system will be extended to include imaginary and complex numbers. Families of functions to be studied include: polynomial, absolute value, radical, trigonometric,

MATHEMATICS DEPARTMENT

exponential and logarithmic functions. Trigonometry will be expanded beyond right triangles and will also include the investigation of circular functions. Other topics include probability, statistics, and sequences and series. The New York State Algebra 2/Trigonometry Regents exam will be given at the conclusion of this course.

Prerequisite: Successful completion of the Integrated Algebra and Geometry courses.

Recommendation: A final average of 85 or above in Integrated Algebra and Geometry and if the Algebra 2/Trigonometry Skills course was taken, a passing grade in Algebra 2/Trigonometry Skills.

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 Integrated Algebra, Geometry, and Algebra 2/Trigonometry.

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 Integrated Algebra, Geometry, and Algebra 2/Trigonometry.

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

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/Trigonometry or concurrent enrollment in Algebra 2/Trigonometry.

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.

MATHEMATICS DEPARTMENT

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 open to any instrumental student in grades 9 through 12 who completes the audition process. Weekly lesson and playing exams are required. *Concert Band* is a full year course that meets daily. Three concerts a year are given. Students receive a grade and one credit.

H650 Wind Ensemble 2 Semesters - 1 Credit

Wind Ensemble is a select ensemble open to advanced wind and percussion players by audition. All members are required to display musicianship through tone, rhythm, interpretation, and sight reading. Weekly lessons and playing exams that indicate the progress of the student are required. *Wind Ensemble* is a full year course that meets daily. Students receive a grade and one credit. Three concerts a year are given.

H500 Orchestra 2 Semesters - 1 Credit

Orchestra is open to all string players, and on occasion advanced wind and percussion players, in grades 9 – 12. Members are exposed to a variety of literature from the classics to contemporary. Weekly lessons and playing exams indicate the progress of the students and are required. One credit and a grade are awarded.

H000 Chorale 2 Semesters - 1 Credit

Chorale is a full year course and is a non-auditioned choir. Designed to provide students the opportunity to learn various techniques of choral singing, the chorale prepares and performs literature of a wide variety of styles and difficulties.

H600 Concert Choir 2 Semesters - 1 Credit

Concert Choir is a full year course that is open by audition to grades 10 – 12 men and women. The choir is designed to provide both a broad range of choral experience and an opportunity for in-depth musical and vocal development.

H015 Voice Class 1 1 Semester - 1/2 Credit

Voice class is an elective that offers any high school student the opportunity to develop and improve vocal production, music reading skills, and public performance ability. Through the study and drill of sight singing, basic eurhythmic movement, and preparation of solo literature, musical literacy and interpretive sensitivity are nurtured. English and Italian diction are studied and students are exposed to vocal literature in a variety of styles. Students are evaluated through oral and written quizzes and examinations, solo performances, and a final project.

H010 Intro Guitar 1 Semester - 1/2 Credit

This class is offered to all 9th – 12th grade students. It is a beginning class where the understanding of note reading, rhythmic notation, and music symbols is not required. Guitars and books are provided. The goals are simple melodic reading and basic chordal accompanying.

H011 Piano Class 1 Semester - 1/ 2 Credit

Offered to all 9th – 12th grade students interested in learning simple melodies and basic chordal accompanying. Students will be taught basic note reading and some simple language of music.

MUSIC DEPARTMENT

H012 Musical Theatre Workshop

1 Semester - 1/2 Credit

Musical Theatre Workshop is a dynamic class in which students encounter the fundamentals of musical theatre production in a hands-on, experiential process. Students will learn about vocal production, basics of acting, fundamentals of stage movement, several aspects of technical theatre, and the interrelationship therein. Further, the students will be introduced to principles of production work such as publicity, marketing, tickets/programs publication, and concessions that bring about the success of any show. Finally, if the students so choose, they may apply these skills in a performance-based event of some kind, catered to the students' potential and selected level of involvement.

H017 Foundations of Musicianship

1 Semester - 1/2 Credit

This class is open to all students in grades 9 – 12. The course will include basic music vocabulary, rhythmic, tonal, harmonic, and melodic dictation, analysis and use of chords. As the Theory part of the course is explored, it will be a-lined with the historical aspect of music exploring the history of theory and the classic composers. Written exams and a final are required.

H018 World Music Drumming

1 Semester - 1/2 Credit

This is an engaging, performance-based course in which the student will gain a significant knowledge base of drumming traditions of several African countries as well as Latin America. Students will learn to play a variety of world music instruments including: tubanos, shekeres, maracas, gankogui, frame drums, talking drums, bongos, cowbells, claves, guiros, steel drums, and djembe. No prior musical experience is necessary.

PHYSICAL EDUCATION DEPARTMENT

N010 Physical Education (1st Semester) 1 Semester - ½ Credit

N012 Physical Education (2nd Semester) 1 Semester - ½ Credit

Students are required to successfully complete 3 credits of Physical Education prior to graduation.

The relevancy of Physical Education is to provide students with exposure to lifetime fitness activities that will help prepare them for adult life activities after High School. We offer a wide range of carry over activities from team and individual sports to fitness activities that include weight training and aerobics. There are also opportunities for students to gain certification in CPR and Lifeguarding.

Physical Education is a state mandated course required for graduation and our program is designed according to New York State guidelines. Every student is required to participate on a regular basis. Medically excused students will be given written assignments that will help them meet some of the state educational objectives and receive credit toward graduation. Adaptive Physical Education classes are offered to students with specific physical limitations and/or needs determined by physicians and therapists.

Students who exceed 9 absences will not receive credit for Physical Education and must repeat the course.

Students are expected to be prepared for class by wearing sneakers, shorts and shirts, or a proper fitting swimsuit (a one piece suit for girls is preferred). Daily credit is not given to those students unprepared to participate.

A student must pass an activity with a minimum of 80% in each of the areas (F, I, T, S) for the semester that they are enrolled in Physical Education.

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>)

PHYSICAL EDUCATION DEPARTMENT

Additional Activities Include:

Games and Sports (Team & Individual)

| | |
|------------------|---|
| Badminton | T |
| Speedball | T |
| Basketball | T |
| Pickleball | I |
| Volleyball | T |
| Flag Football | T |
| Adventure Games | T |
| Inline Skating | T |
| Softball | T |
| Floor Hockey | T |
| Ultimate Frisbee | T |
| Handball | T |

Rhythm and Dance:

| | |
|---------------|-----|
| Dance Fitness | F/I |
|---------------|-----|

Lifetime Activities:

| | |
|--------------------|---|
| Archery | I |
| CPR | I |
| Educational Karate | I |
| Project Adventure | I |
| Fly Fishing | I |
| Golf | I |
| Tennis | I |
| Inline Skating | I |
| Yoga | F |

Physical Fitness and Conditioning:

| | |
|--------------------------|---|
| Aerobics | F |
| Weight Training | F |
| Plyometrics | F |
| Bigger, Faster, Stronger | F |
| Weight Training | F |
| X-Biking | F |
| Functional Training | F |
| P90X | F |
| Insanity | F |

Aquatics:

| | |
|-----------------|---|
| Basic Swimming | S |
| Water Polo | S |
| Water Games | S |
| Water Aerobics | S |
| Scuba & Snorkel | S |

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**

Earth Science is recommended for all students. Topics studied include geology, meteorology, and environmental awareness. The intent of this course is to develop an appreciation of the planet Earth as well as develop the required science skills that will be used in biology, chemistry, and physics. Evaluation is based on quizzes, tests, assignments, class participation, laboratory experience, and the Regents Exan.

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 primarily intended for those pupils who have an average or above average interest in Science and who are reading at or above the tenth grade level. It is the intent of the course to provide pupils with an awareness of the natural world, basic scientific concepts, stimulation of inductive reasoning, and a basic understanding of biological processes and generalizations. The course consists of a basic core of seven units: The Study of Life; Maintenance in Animals; Maintenance in Plants; Reproduction and Development; Transmission of Traits from Generation to Generation; Evolution and Diversity; and Plants and Animals in their Environment. Evaluation is based on quizzes, assignments, class participation, 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: Integrated Algebra

Recommendation: Successful completion of Geometry

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).

SCIENCE DEPARTMENT

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

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 and concurrently with Physics. 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 Semesters - 1 Credits (HHS)** **1 Semesters - 4 Credits (CCC)** **CHEM1510 - General Chemistry I**

And

C894 ACE Chemistry II **1 Semesters - 1 Credits (HHS)** **1 Semesters - 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.

SCIENCE DEPARTMENT

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 take 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, Math 3 (Algebra II/Trig)

Prerequisite ACE Chem II: ACE Chem I

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 4 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

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 Offered every other year Offered: 2014-2015

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.

SOCIAL STUDIES DEPARTMENT

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 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

SOCIAL STUDIES DEPARTMENT

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

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 2 Semesters - 2 Credits (HHS) 2 Semesters - 3 Credits (CCC) GOVT 1010 - Am Fed Gov't

This is a year long course for students to receive college credit for Political Science 101 while in high school. All students must have successfully completed American Studies or AP US History prior to taking this class. This course will deal in detail with American government and politics. Students can expect to have fun while learning about their government. Students can also expect to hear from people whom are directly involved in government and politics. Students will experience government and politics on field trips that will enhance learning. Students are required to take the AP exam in May.

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

Satisfies the 12th grade Social Studies requirement

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

ACE ENGINEERING COLLEGE CLASSES THROUGH CORNING COMMUNITY COLLEGE

The Technology Department currently offers two pre-engineering courses for the student who is serious about going on to pursue a degree in engineering. The job outlook is very good in many engineering fields. Grades 10 through 12 students with an 80% average or higher are eligible for our ACE Engineering classes.

ACE ENGINEERING COLLEGE COURSES:

- Engineering Orientation – ACE ENG1010
- Graphics for Engineers – ACE ENG1030

The Technology Department will offer two ACE college engineering classes through Corning Community College. The ACE Graphics for Engineers will replace the PLTW Introduction to Engineering Design class and ACE Engineering Orientation will replace the PLTW Principles of Engineering class. Digital Electronics and Computer Integrated Manufacturing classes will be added in future years.

L040 Transportation & Energy 1 Semester - 1 Credit

Students will create engineering based problem solving projects. Included will be small engine disassembly, reassembly and repair, 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.

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 Adobe Flash 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

L016 Design & Drawing for Production - A **1 Semester - 1/2 Credit**

Students will use AutoCAD to draw 2-d objects using the rules of orthographic projections and current drafting standards. The course is all project based with 100% of the grade coming from being able to use the program and dimension correctly.

Fulfills 1/2 Art/Music Graduation Requirement

L017 Design & Drawing for Production - B **1 Semester - 1/2 Credit**

This is the companion class to DDP-A. Students will learn to plan a project by sketching. We will use Oblique, Isometric and Orthographic Projection methods. Students will complete a problem solving project and draw a complete set of plans and pictorial sketches.

Fulfills 1/2 Art/Music Graduation Requirement

L091 ACE Graphics for Engineers (3-d CAD) **1 Semester - 1 Credit (HHS)** **1 Semester – 3 Credits (CCC)** **ENGR 1030 Graphics for Engineers**

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.

L094 ACE Engineering Orientation **1 Semester - 1 Credit (HHS)** **1 Semester – 2 Credits (CCC)** **ENGR 1010 Engineering Orientation**

Students will study and learn about the different engineering career opportunities. The course involves statistics, design solutions and problem solving. Many of the 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, & Architectural.

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 |
| | | | | | | |
| 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 |
| Design & Drawing for Production - A | | Yes (Half) | | ½ Unit | | |
| Design & Drawing for Production – B | | Yes (Half) | | ½ Unit | | |
| | | | | | | |
| | | | | | | |
| Minimum Units Required For a 5 Unit Sequence | | | | 1 Unit Minimum | ½ Unit Minimum | 1 Unit Minimum |