

# HORSEHEADS HIGH SCHOOL

## COURSE SELECTION GUIDE



2026-2027



Cover Art Designed by

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Horseheads Class of 2021

GST BOCES Digital Media Arts

SUNY Oswego



## Vision Statement

*Horseheads Central School District sets the standard of educational excellence by fostering innovative thinking, curiosity, and a passion for learning to maximize the potential of each individual. We engage with our local and global communities to provide a student-centered, nurturing environment.*

## Mission Statement

*Explore      Empower      Excel*

## Value Statements

*We **Explore** through local and global opportunities, a culture of innovation, and individual learning paths.*

*We **Empower** each other by rising to challenges, celebrating success, and learning from failure.*

*We **Excel** as a result of our passion for learning, the quality of our character, and the strength of our relationships.*

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## Directory

### Administration

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Mr. Daniel Buseck, <i>Assistant Principal</i>	607-739-5601 ext. 1602
Mr. Michael McCawley, <i>Assistant Principal</i>	607-739-5601 ext. 1603
Main Office Fax	607-795-2505

### Counseling Department

Ms. Katie Akins, <i>High School Psychologist</i>	607-739-5601 ext. 1751
Mrs. Melissa Apgar, <i>High School Social Work</i>	607-739-5601 ext. 1740
Mr. Patrick Beckwith, <i>High School Counselor</i>	607-739-5601 ext. 1633
Mrs. Marti Clark, <i>Middle School Counselor</i>	607-739-6357 ext. 3650
Mrs. April Cook, <i>High School Counselor</i>	607-739-5601 ext. 1635
Mrs. Sarah Kline, <i>High School Social Work</i>	607-739-5601 ext. 1741
Dr. Colleen Markle, <i>High School Counselor</i>	607-739-5601 ext. 1634
Ms. Alexandra Marsh, <i>High School Social Work</i>	607-739-5601 ext. 1746
Mr. Stephan Micknich, <i>Middle School Counselor</i>	607-739-6357 ext. 3652
Mrs. Lindsay Neubauer, <i>High School Counselor</i>	607-739-5601 ext. 1632
Ms. Chris Roberts, <i>High School Psychologist</i>	607-739-5601 ext. 1750
Mrs. Lynda Thomas, <i>High School Counselor</i>	607-739-5601 ext. 1631
Counseling Fax	607-795-2515

### Attendance Office

Mrs. Patty Martin, <i>Attendance Clerk</i>	607-739-5601 ext. 1612
Mrs. Penny Kastenhuber, <i>Registrar</i>	607-739-5601 ext. 1624

### Health Office

Mrs. Carrie Tournour, <i>Registered Nurse</i>	607-739-5601 ext. 1623
Ms. Vickie White, <i>Registered Nurse</i>	607-739-5601 ext. 1622
Kristen Raniewicz, <i>Nurse Practitioner</i>	607-739-5601 ext. 1801
Kayla Bastinelli, <i>Licensed Practical Nurse</i>	607-739-5601 ext. 1627
Health Office Fax	607-795-2510

### Athletic Office

Mr. Damian Saks, <i>Director of Athletics</i>	607-739-5301 ext. 4254
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## Introduction

The Horseheads Central School District offers educational programs without regard to race, color, national origin, creed, religion, marital status, military status, sex, sexual orientation, age, gender identity, predisposing genetic characteristic, or disability, and provides equal access to applicable groups under the Boy Scouts of America Equal Access Act. Inquiries regarding this policy may be made to Caitlin DeFilippo, Title IX/DASA Coordinator and Co-Civil Rights Compliance Officer; Anthony Gill, Co-Civil Rights Compliance Officer; or Kelly Squires, Section 504 Coordinator, Horseheads Central School District, 143 Hibbard Road, Horseheads, NY 14845, (607) 739-5601.

This policy of non-discrimination includes access by students to educational programs, counseling services, course offerings, and activities, as well as recruitment and appointment of employees and employment pay, benefits, advancement and/or termination.

The following person(s) has been designated to handle inquiries regarding the non-discrimination policies:

Caitlin DeFilippo, Director of Human Resources  
cdefilippo@horseheadsdistrict.com  
143 Hibbard Road  
Horseheads Central School District  
Horseheads, NY 14845  
607-739-5601, x4211

U.S. Department of Education  
Office of Civil Rights  
LBJ Department of Education Building  
400 Maryland Ave., SW  
Washington, DC 20202-1100  
1-800-421-3481

The Dignity Act Coordinator (DAC) for Horseheads High School is Mike McCawley. Complaints regarding discrimination, harassment, or bullying of any students should be referred to Mr. McCawley (607) 739-5601, ext. 1603. The Dignity Act Coordinator for the Horseheads Central School District is Caitlin DeFilippo and she may be reached at 143 Hibbard Road, Horseheads, NY 14845, (607) 739-5601, ext. 4211.

To Horseheads High School Students and Parents/Guardians:

This curriculum guide has been designed to help both students and parents/guardians to plan for next year's academic schedule and beyond. The guide reflects information on courses we will offer during the 2026-2027 school year.

Prior to making course selections, it is important that both parents/guardians and students understand the graduation requirements for Horseheads High School and the courses needed for the Regents and Advanced Regents diplomas. 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 individual academic needs. Our counseling department can be helpful in clarifying any questions you may have about courses.

I encourage each student to plan carefully for the upcoming year. The master schedule reflects the courses requested by students and once developed, cannot be changed. We are unable to honor specific requests for individual teachers and, once students have been assigned to 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 1200 students at Horseheads High School, it is important that parents/guardians 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 the student's school counselor if you have any questions.

Kris Earl  
Principal

## Graduation Requirements And Pathways to Diploma

New York State has introduced new options in recent years for students to meet graduation requirements. The Regents exams that have been traditionally used to satisfy the testing requirements for a Regents and Advanced Regents Diploma still remain. However, the state has designated additional “pathways” for students to satisfy diploma requirements, generally through some variation in the required exams. While these pathways are referenced below, please note that all students will have to take the five core exams as Horseheads uses the Regents exam as the final exam for the corresponding courses. Counselors will work with students who may need to pursue a pathway in the event the student is not successful on one of the traditional exams.

Parents who have any questions about graduation requirements are strongly encouraged to contact their child’s counselor.

Use the following link for a complete description of New York State graduation requirements:

<https://www.nysed.gov/standards-instruction/graduation-requirements-guidance-and-resources>

### Regents Diploma

#### **Course Requirements**

English – 4 units  
Social Studies – 4 units  
Mathematics – 3 units  
Science – 3 units  
World Language – 1 unit  
Health – 1 unit  
Fine Art – 1 unit  
Physical Education – 3 units  
Electives – 3

**Total: 23 units of credit**

#### **Testing Requirements**

English Language Arts Exam  
Global Regents Exam  
US History Regents Exam  
Mathematics Regents Exam  
Science Regents Exam

All exams must have a 65% or above passing score

### Regents Diploma with Advanced Designation

#### **Course Requirements**

*All of the above Regents Diploma requirements, plus the 23 units of credit must include ONE of the following:*

- 2 additional units of World Language
- 5-unit sequence in The Arts
- 5-unit sequence in Career & Technical Education (Business, Technology, FACS, BOCES)

#### **Testing Requirements**

English Language Arts Exam  
Global Regents Exam  
US History Regents Exam  
3 Math Regents Exams  
2 Science Regents Exam  
(1 must be a Life Science & 1 must be a Physical Science)  
World Language Exam  
(for those pursuing the additional units of World Language)

### **4+1 Pathways**

In the event that a student is not successful on one of the two Social Studies exams, the state will allow a 4+1 Pathway to satisfy the testing requirements. This can be achieved by passing an additional math, science, CTE exam, or by completing the CDOS Credential. Counselors will work with individual students to decide what pathway is appropriate if a pathway is required.

### **Local Diploma Option**

A Local Diploma is only available to students with an IEP or designated safety net eligible 504 plan. The diploma requires all the coursework be taken and passed that is required for the Regents Diploma. The state allows for a low pass safety net which considers a 55-64 passing score on the Regents exams for a student earning a Local Diploma. The state also has a compensatory safety net where a score of 45-54 on any required Regents exam (except ELA and Mathematics) can

be compensated by a score of 65 or above on another required Regents exams. It is essential that a student work with their school Counselor to determine if the safety net option will apply in their case.

## **Career Development and Occupational Studies Commencement Credential**

A CDOS Commencement Credential can be used as a standalone high school exiting credential that shows students meet work-readiness criteria, to supplement a high school diploma, or to help meet Regents diploma requirements as outlined above. To successfully meet the CDOS Commencement Credential requirements, students must complete a career plan and demonstrate attainment of career exploration and development learning standards. CDOS requirements integrate academic coursework and workplace readiness skills. Students must complete the equivalent of two units of study in Career and Technical Education coursework, including 54 hours of work-based learning, and at least one employability profile.

All New York State students may exit high school with the CDOS Commencement Credential if they are unable to meet the diploma requirements. **At no point should a decision be made that a student stop working toward a high school diploma in order to concentrate only on earning this credential.**

## Graduation Endorsements

### **Horseheads Honors Graduate**

A student with an 85.00 or above cumulative grade point average at the time of final senior ranking will be considered an honors graduate and will receive such designation at graduation. This determination is made at the end of the seventh marking period in the senior year.

### **New York State Honors Endorsement**

A student earns a computed average of at least 90 on all Regents examinations applicable to either a Regents diploma or a Regents diploma with Advanced Designation. This average cannot be rounded up. The locally developed Checkpoint B LOTE examination is not included in the calculation.

### **Mastery in Math and/or Science**

A student meets all the requirements for the Regents diploma with Advanced Designation and earns a score of 85 or better on three math Regents examinations and/or three science Regents examinations.

### **Technical Endorsement**

A student meets the requirements for the local diploma, a Regents diploma, or a Regents diploma with Advanced Designation and successfully completes a department approved CTE program including the 3-part technical assessment.

### **CDOS Credential**

A stand-alone credential that may be a supplement to a Local or Regents diploma. Students who earn a CDOS Credential will have a completed Career Plan; demonstrate achievement of the CDOS learning standards 1, 2, & 3a; successful completion of at least 216 hours of CTE coursework and/or work-based learning experiences (of which at least 54 hours must be in work-based learning); and a completed employability profile.

## Course Selection Process

Counselors at the Middle School will work with eighth grade students selecting ninth grade courses. High School Counselors will work with all students currently at the high school to select courses for the next academic year.

These meetings are part of the NYS mandated academic review that ALL students must have with their certified school counselor. This meeting is an important time where the counselor and student can spend time discussing future plans with students. We always welcome parent input, but we also want to hear the student voice. This is a great opportunity for students to build their self-advocacy skills and use honest self-appraisal to make choices. Counselors also work on the state mandated career plan with students during these course selection meetings.

## Course Selection Meetings

Typically, counselors start meeting with students to discuss courses for the next school year in January or February. Counselors will continue these meetings through the beginning of April. Course selection is based on courses required for graduation, student interests, career goals and post-secondary plans. Factors such as the student's past achievement, teacher recommendations, and the availability of classes have an impact on student schedules.

Course selection is just that, selecting the courses you would like for next academic year. It is not setting up a schedule for the next school year. We cannot specify a specific period or teacher for a class with any student during this meeting. By selecting courses, we are gathering the data used by our building administration to make decisions on the number of class sections we need to offer for each course, and if necessary, which classes must be cancelled due to low enrollment or staffing limitations.

It is very important to know that request to have classes or lunch scheduled in a specific semester, period or with a specific teacher will not be honored.

Student schedules are created over the summer months. Students will not receive their schedules until the first day of school.

## Freshmen Restrictions

One benefit of the intensive block schedule used for the high school is that students can accelerate their course of study by taking two classes in the same academic area during the same school year. Freshmen are restricted from accelerating in more than one subject area, or what is often referred to as "doubling up." The restriction is due to staffing limitations at the high school.

## Class Conflicts

A conflict occurs if a class that a student selected during the spring meeting will not fit in the course schedule. If a student has a conflict with a course, a counselor will contact that student over the summer to find a resolution. It is important that we have up to date contact information so that we can reach any student over the summer that may have an issue with their class schedule. If you do not receive a phone call or email, then the courses selected with your counselor have been successfully scheduled.

Please note, your counselor will ask you to pick an alternate selection for all half credit courses. If your first choice half credit elective does not schedule, we will use the alternate and not contact a student over the summer.

## **Minimum Number of Courses**

As there are no study halls at Horseheads High School, every student must have a full schedule.

## **Lunch**

Each student is scheduled to have one lunch period at the High School. Students may not leave the school during their lunch period.

Some students may request to give up their lunch period to be able to schedule a class. We require any student electing to not take a lunch period to have a request form signed by the parent. This form will be given to the student at the time of course selections if requested.

## **Activity Period**

Each student who does not take a music ensemble (band/choir/orchestra) class or learning lab, is scheduled to have one activity period at the High School opposite their lunch. Students will be assigned to a classroom for the period, and they must report to the classroom each day. For a student to leave their assigned activity room, they must have a pre-signed pass.

## **Schedule Changes**

Schedule changes are NOT permitted at the high school due to the intensive block schedule. Students cannot change from one class to another simply because they do not like the class. Therefore, students should be thoughtful in selecting classes and abide by the deadline dates for any course changes.

As a semester begins, the only changes to schedules that are allowed are for level changes. A level change is only used in an academic class that has an alternate level available. This type of change is only made after conversation with the teacher, student, counselor, and parent have occurred and all agree that it is the best academic plan for the individual student to make a move. Level changes can only be made if the alternate class has space and if it will work within the existing schedule with minimal disruption to other courses. Students cannot change from one curricular area to another as a level change. Level changes can only occur within the first five weeks of the semester.

## **Early Release from School**

Horseheads High School offers a wide selection of courses and encourages students to take full advantage of course offerings. Therefore, we do not encourage an early release from school. However, seniors may petition for an early release from school for employment or alternate learning opportunities.

Requests for early release are conditional upon a student's individual schedule and will only be honored if approved by the parent and principal. Seniors who need to be on school grounds after school hours (sports, clubs, etc.) are NOT eligible for 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. Seniors may not drop classes after the semester has started for early dismissal.

## **Rescheduling of Courses Failed**

Every attempt should be made on the 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 a comparable course to meet the requirement.

Courses may be repeated through an area summer school program if available and if the student is eligible. Students are not eligible for summer school if they have below a 50% numeric average for the failed class, if they exceeded the Horseheads class attendance policy, or if they have not met the state laboratory mandate for any lab science.

Courses may be scheduled in the following academic semester only if there is space available in the class. 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. Students will not be allowed to move on in a progression of courses if the prerequisites have not been passed.

## **Important Deadlines**

As our principal's introductory letter stated, we do not allow changes to courses past specific dates. Please take note of these dates and proceed accordingly. All course change forms require parent signatures for approval.

- ❖ After your Course Selection meeting in the spring, changes can be made through your school counselor through the last day of classes. The form mailed home with the course scheduling packet can be used for this change.
- ❖ From the Monday after graduation through July 31<sup>st</sup>, course change requests must be made through the petition process (blue form) at the high school. This form is available on the high school website and in the Counseling Office.
- ❖ After July 31<sup>st</sup>, no course change requests are allowed. Students will not be able to change first semester classes.
- ❖ Once school starts, students can request to change second semester classes ONLY. This deadline is the LAST day of first semester classes.

## Horseheads Promotion and Retention Policy

Grade level or class standing shall be determined by the accumulation of Carnegie units by the student.

Horseheads BOE policy 4750-R approved 05/2015

### Promotion

In order for a student to be promoted to the next grade level, a student must complete a required number of credits and complete academic classes.

- To achieve 10<sup>th</sup> grade or sophomore status, a student must earn four (4) credits, including the successful completion of two (2) academic subjects.
- To achieve 11<sup>th</sup> grade or junior status, a student must earn nine (9) credits including the successful completion of four (4) academic subjects and one (1) credit of physical education.
- To achieve 12<sup>th</sup> grade or senior status, the student must be in the position to graduate in August of the current school year.

Courses will be taken in their normal progression and prerequisites must be adhered to. For example, English 10 will be taken after the successful completion of English 9.

### Subject Retention

The Carnegie unit of credit of any failed subject or course in grades nine through twelve must be made up through either repetition of the course, a substitute course or through an approved summer school program if the credit is to be awarded.

### Early Graduation

The program of studies offered at Horseheads High School is based on student attendance over a four-year period (grades 9-12). Some students may receive permission to graduate early by completing their diploma requirements prior to June of their projected senior year. There are two scenarios for early graduation: students may elect to graduate one semester early and complete their requirements in January of their senior year OR students may elect to graduate one full year early. Students electing to graduate a year early will “skip” their junior year and be promoted from 10<sup>th</sup> grade to 12<sup>th</sup> grade. Each student requesting permission to complete the requirements for graduation prior to their projected graduation date (early graduation) must complete the “Request for Early Graduation” form.

Approval of requests for early graduation must be given by the principal. In general, the student’s progress while in high school and the student’s plans for the time immediately following early graduation are the determining factors for granting or withholding approval.

All requests for early graduation must be received in the high school office by July 31<sup>st</sup> preceding the start of the academic year in which the student intends to graduate.

In some cases, wherein a student requests permission to graduate one year early, a conference with the student, parent, counselor, and principal may be required.

In the event of an unforeseeable situation that results in a request for early graduation after the submission deadlines, a conference of the student, parent, counselor, and principal may be held.

\*\*Please note that if a student applies for early graduation and rescinds the decision to graduate early, the request must be provided in writing.

## College Credit Opportunities

There are two methods of earning college credit in the high school setting: through Advanced Placement examinations or through dual enrollment courses.

It is important to note that the transferability of any college credit is not guaranteed. Each college and university establishes their own standards and acceptance practices. Each student should check with the colleges that they intend to apply to for their credit transfer policy.

### Accelerated College Education (ACE)



The ACE program is a dual enrollment program in partnership with Corning Community College. Students take SUNY CCC courses at Horseheads High School, earning both one high school credit as well as designated credit hours through Corning Community College. All courses are taught by high school faculty who have the appropriate degree and credentials required by SUNY CCC to act as adjunct instructors.

All students must be considered “academically sound” to enroll in the ACE program. Corning Community College defines academically sound as a student having an 85% or higher overall high school GPA. There are also pre-requisites to each course that must be met in order to be eligible to enroll. Please note the prerequisites are listed for individual classes in this curriculum guide.

ACE courses do have a tuition charge per course. Typically, the cost is 1/3 of the tuition cost per class. All students must complete a Certificate of Residence for the county they currently reside in each year they participate in ACE courses. All Certificates of Residence are due within the first 30 days of the semester. If the Certificate is not received by the deadline, students will be billed a non-residence fee and a hold will be placed on the student’s account. An account hold prevents future registrations until payment is received.

### Advanced Placement (AP)



Advanced Placement 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 examinations in May. Depending on the AP exam score, the college in which the student chooses to attend may grant college credits and/or advanced placement to the student.

The AP exam registration will occur in the fall semester. There is a fee to take each AP examination. Notification regarding registration will be sent out by the AP Test Coordinator.

## Career & Technical Education

Career & Technical Education (CTE) programs are developed based on present and future needs in the job market. CTE programs give students the chance to explore and experience careers in a setting that closely resembles the workplace.

If you are entering the workforce immediately after high school, a CTE program can give you the competitive edge you need to show potential employers that you are the best candidate for the job.

Students heading to college or technical school benefit from CTE Programs too. Hands-on experience raises your understanding beyond the level of textbook theory and gives you a practical advantage in the college classroom or laboratory.

### GST BOCES CTE Programs

The Career Specialization and Transition (S & T level) programs prepare students for a career or further education in their chosen area. Courses take two years to complete. Students receive practical, hands-on experience in their chosen field. They learn teamwork, decision-making and problem-solving skills and apply Regents level English, Mathematics, and Science to their program of study. All S and T level programs have college articulation agreements.

Students applying to the S and T level CTE programs must be entering grade 11 or 12. They must show promise of program success, not be a safety hazard to the class or self, be able to get along with peers and adults, and be able to work in a team atmosphere.

Available programs at the GST BOCES Bush Campus are:

- Animal Science
- Audio Media Design
- Automotive Technology
- Building Construction
- Collision Repair and Refinishing Technology
- Conservation
- Cosmetology
- Criminal Justice
- Culinary Arts
- Dental Assisting
- Diesel Equipment Technology, Maintenance & Repair
- Digital Media Arts
- Early Childhood
- Fashion Design, Merchandising & Marketing
- Nurse Assisting
- Precision Machining
- Professional Business and Financial Technologies
- Welding & Metal Fabrication

Students who attend a CTE program in the S & T levels will be scheduled part of the school day at the Bush Campus either in the morning or afternoon (dependent on the program). Transportation is provided by the Horseheads Central School District and students are prohibited from driving their personal vehicles.

### New Visions Programs

New Visions courses are designed for accelerated, college-bound seniors. These programs are demanding and are extremely rewarding for a highly motivated, mature and academically capable student. Students acquire new knowledge through independent and cooperative learning and demonstrating relevant knowledge assimilated through non-traditional assessment methods. Classroom time is supplemented with many different on-site rotations.

There are three New Visions programs available for students:

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

Space is limited and the application process is competitive for New Visions. In order to apply, students need the following:

- ✓ A grade point average of 85% or higher
- ✓ Excellent attendance records of 90% or better
- ✓ Minimum to no disciplinary record
- ✓ All graduation requirements should be complete with the exception of the senior English and Social Studies classes.
- ✓ Demonstrated service by participating or volunteering in the community and participation in extracurricular offerings
- ✓ Recommendations from three academic teachers; or two teachers and one employer or volunteer supervisor
- ✓ The ability to provide their own transportation to various sites.
- ✓ Applicants will have an in-person interview and write an essay on a provided prompt

Students who are accepted into the New Visions program may be placed either at Elmira College or at the BOCES Coopers Plains Campus. Student placement is determined by the admission committee through GST BOCES, not by Horseheads staff. Students cannot request their New Visions program to be placed in a certain time of the day.

## Career Development Council

Horseheads Central School District contracts with the GST BOCES Career Development Council.

Career Development Council partners with business, industry, and area school districts to provide high quality career education programs. Basic services include career days, career job shadowing, career panels, field trips, guest speakers, mock interviews, after school programs, grant funded programs, and special career-focused programs.

### Career Development Council Services

Students interested in learning more about careers have the opportunity to job shadow or intern for credit through the services of the Career Development Council. Horseheads' Career Development Representative is Mrs. Sonsire. Students can meet with Mrs. Sonsire during the lunch/activity periods two days a week in room 202. Students should request an appointment through the Counseling Office or by emailing Mrs. Sonsire: [JSONSIRE@gstboces.org](mailto:JSONSIRE@gstboces.org).

#### Job Shadowing

Job Shadowing allows a student to spend part of a day with an adult in a career at that person's worksite. The student learns about the job responsibilities, the format of a typical day, the salary range, and the environment. The student must provide his/her own transportation to the shadow site.

#### Career Panels

Career Panels are generally large group activities that provide awareness of the range of careers in a particular field. The career professionals have a panel discussion with student question time following. Space can be limited for career panels and seniors will have priority.

#### Internships

Internships are a 6 to 12 week work-based program for juniors and seniors interested in learning more about a specific career while working under the supervision of a worksite mentor. Elective credit may be awarded if all criteria are met including a completed time sheet, journal of activities, and weekly contact with the Career Development Council representative.

## National Collegiate Athletic Association

The NCAA Eligibility Center certifies the academic and amateur credentials of all college-bound student athletes who wish to compete in NCAA Division I or II athletics.

### NCAA Academic Requirements

To play sports at an NCAA Division I or II college, you must graduate from high school, complete 16 NCAA approved core courses and earn a minimum core-course grade point average (GPA).

The NCAA Eligibility Center calculates a student's core-course GPA based solely on the grades that they earn in **NCAA-approved core courses**. The Horseheads High School courses that are NCAA approved are designated on the course selection sheet by the # symbol. Students can also review approved courses by visiting <https://www.ncaa.org/sports/2014/10/6/core-courses.aspx>

Please note that the cumulative GPA listed on a student's Horseheads High School transcript is not the same as the core-course GPA that is used by the NCAA Eligibility Center for qualification purposes. A student's NCAA core-course GPA is calculated on a 4.0 scale and numeric grades are converted to letter grades based on the high school's grading scale.

90-100= A      80-89= B      70-79= C      65-69= D

As part of this calculation, each of the 16 NCAA approved core courses is assigned a "quality point" equivalent (A=4, B=3, C=2, D=1). The sum of all the quality points is then divided by 16 (credits required) to determine the core course GPA.

The 16 core-courses that are required are distributed among specific curricular areas: English, Mathematics, Natural/Physical Sciences, and Social Science. It is important to notify your School Counselor as early as possible if you are planning to pursue NCAA Division I or II athletics in college. Counselors need this information so that we may properly advise you about which high school courses are approved and required, and the timing of completion of such courses. Counselors will complete and review an academic worksheet for student athletes once they are aware of their ambitions.

Official high school transcripts must be uploaded to the NCAA Eligibility Center website for student athletes to be "qualified" or cleared for college competition. Students can request a transcript release form from their school counselor, but must have an Academic & Amateurism Certification Account on the NCAA Eligibility Center website ( <https://web3.ncaa.org/ecwr3/>). Transcript requests can be made at any time but will only be uploaded at the completion of each semester for underclassmen.

## Art Department

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

A five-credit sequence in the Arts can be an alternative to the World Language requirement for the Advanced Designation Diploma.

### **Studio in Art 1 (G010)**

**Prerequisite:** NONE

**Credit:** ½ unit    **Grades 9-12**

This foundational course introduces students to the nature, purpose, and techniques of visual art. Through hands-on projects, you will create works using a variety of media. Emphasis is placed on understanding and applying the Elements and Principles of Art to develop strong visual compositions. Studio in Art 1, when combined with Studio in Art 2, fulfills the New York State fine arts graduation requirement.

### **Studio in Art 2 (G011)**

**Prerequisite:** NONE

**Credit:** ½ unit    **Grades 9-12**

Studio in Art 2 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 art graduation requirement.

### **Studio in Printmaking (G012)**

**Prerequisite:** Studio in Art 1 & 2

**Credit:** ½ unit    **Grades 9-12**

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

### **Design in Clay (G013)**

**Prerequisite:** Studio in Art 1 & 2

**Credit:** ½ unit    **Grades 9-12**

Design in Clay introduces students to using clay as a medium for both functional and sculptural works of art. Students will learn different building techniques and a variety of ways to decorate the

surface of the clay. Students will be introduced to the use of pottery and ceramics throughout history. Hands-on work and problem-solving skills are emphasized.

### **Advanced Ceramics (G015)**

**Prerequisite:** Design in Clay

**Credit:** ½ unit    **Grades 9-12**

Advanced Ceramics allows students to continue developing their skills using clay as a media. Students will explore a variety of hand-building methods, will develop their skill using the potter's wheel and incorporate a wide range of surface decoration techniques. Students will be encouraged to develop their own artistic voice as they continue their exploration of ceramic history.

### **Drawing & Painting 1 (G040)**

**Prerequisite:** Studio in Art 1 & 2

**Credit:** 1 unit    **Grades 9-12**

If you've successfully completed Studio in Art 1 and 2 and are eager to deepen your exploration of visual art, Drawing & Painting 1 is the perfect next step. This course builds on foundational skills while introducing a variety of drawing and painting techniques, including observational and perspective drawing, color theory, and paint application. Through guided practice and personal exploration, students will strengthen both their technical abilities and creative thinking.

### **Studio in Graphic Design (G042)**

**Prerequisite:** Studio in Art 1 & 2

**Credit:** 1 unit    **Grades 9-12**

This course introduces students to the creative process of graphic design using industry-standard digital tools, including Adobe InDesign, Illustrator, and Photoshop. Students will explore how to combine imagery and typography to produce compelling visual compositions for a variety of purposes. Through the application of the Principles and Elements of Art & Design, projects will include posters, short animations, infographics, marketing materials, and packaging design. Emphasis is placed on dynamic visual communication, creative problem-solving, and professional design practices.

### **Studio in Crafts (G044)**

**Prerequisite:** Studio in Art 1 & 2

**Credit:** 1 unit    **Grades 9-12**

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

## **Studio in Sculpture (G046)**

**Prerequisite: Studio in Art 1 & 2**

**Credit: 1 unit    Grades 9-12**

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

## **Studio in Media Arts (G047)**

**Prerequisite: Studio in Art 1 & 2**

**Credit: 1 unit    Grades 9-12**

Studio in Media arts is the beginning course in photography. It will introduce students to digital cameras, photography techniques and composition, photo manipulation, and Adobe Photoshop. In addition, film, film processing and the darkroom will be explored.

## **Drawing and Painting II (G051)**

**Prerequisite: Drawing and Painting I**

**Credit: 1 unit    Grades 9-12**

In Drawing and Painting II, students advance their artistic skills through intensive studio practice that emphasizes both technical mastery and creative expression. Building on foundational techniques, this course explores a wide range of media and approaches in drawing, painting, and design. Students will work extensively from observation, focusing on subjects such as nature, still life, and the human figure, while also experimenting with composition, color theory, and mixed media. Through guided projects and individual exploration, students will refine their ability to convey form, depth, and mood, developing a personal style and a strong portfolio of work. Critical discussions and critiques will encourage thoughtful analysis and growth as artists.

## **Drawing and Painting III (G052)**

**Prerequisite: Drawing and Painting II**

**Credit: 1 unit    Grades 10-12**

Drawing and Painting III is an advanced study class balanced between traditional painting and drawing experiences. Projects include a portrait in oil paint and a large figure drawing in pencil. Advanced techniques are explored which build on skills and work toward building a portfolio of your work.

## **Studio in Photography (G054)**

**Prerequisite: Studio in Media Arts**

**Credit: 1 unit Grades 9-12**

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

## **Portfolio Development (G750)**

**Prerequisite: Drawing and Painting III**

**Credit: 1 unit Grade 12**

This course is designed for senior art students preparing a portfolio for college admissions, job interviews, and art competitions. In addition to creating a body of artwork, students will write a personal artist statement, develop digital slides of their work, and learn how to professionally present and display their art.

## Business Department

All business courses promote the personal traits and attitudes considered essential for success in modern business.

A five-unit sequence in Business can be an alternate to the World Language requirement. New York State no longer has specified course sequences that must be used in order to meet this requirement. Five units of any CTE course in any CTE area taught by a certified teacher in any of the CTE content areas (agriculture, business, computer science, FACS, health science, technology, and trade/technical education) may be used.

### **Business Management (J043)**

**Prerequisite: NONE**

**Credit: 1 unit Grades 9-12**

In Business Management students will navigate through all the changes and obstacles a business faces during its life cycle. Students will be exposed to the concepts that effective managers use for decision making, planning organizing, staffing, leading people, and controlling processes and assets to achieve optimal outcomes. Students will develop a basic and practical understanding of spreadsheets and how they are used in business and in their personal life. This is a project-based course, and all work is completed during the class period. The final exam is a project.

### **Math for Personal Finance (J042)**

**Prerequisite: NONE**

**Credit: 1 unit Grades 10-12**

Math for Personal Finance 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 finance problems such as gross pay, banking, taxes, insurance, investing, buying a house, and budgeting will be covered. Student progress is evaluated through class assignments, quizzes, tests, and the final exam. This course can count as a math requirement once state exam requirements are met.

### **Introduction to Marketing (J044)**

**Prerequisite: NONE**

**Credit: 1 unit Grades 9-12**

**Offered: Every other year (2027-2028)**

Introduction to Marketing is a hands-on experience on how commercials and other advertisements are made to attract us by using the 5 P's (product, price, place, promotion, and people).

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

### **Entrepreneurship (J046)**

**Prerequisite: NONE**

**Credit: 1 unit Grades 9-12**

Entrepreneurship will provide students with a step-by-step approach to starting and operating a business through the development of a business plan. The course content is made up with marketing, merchandising, and management skills and is presented in a format that emphasizes the role of an entrepreneur. Both the performance objectives and the instructional strategies emphasizes a project-oriented method of instruction. Students will explore Excel, PowerPoint, and Access as they relate to the successful operation of a business. Grades are based on projects, quizzes, tests, and a business plan for a final project.

### **Business Law (J053)**

**Prerequisite: NONE**

**Credit: 1 unit Grades 9-12**

**Offered every other year (2026-2027)**

Business Law starts with an introduction to the law and then deals with issues with both business and personal law. Contracts, renting an apartment, purchasing a house, and insurance are just some issues covered in this comprehensive study of law in America. Grades are based on quizzes, tests, and classroom participation.

### **ACE Accounting I (J091)**

**Prerequisite: NONE**

**Credit: 1 unit (HHS) Grades 10-12**



**CCC: 4 credit hours**

**ACCT 1000 Accounting Practices**

ACE Accounting 1 develops the vocabulary and concepts of accounting and bookkeeping for small business. This course provides some knowledge of accounting for working in a business environment and some skills to do the accounting in a small business organization.

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

## **Sports & Entertainment Marketing (J011)**

**Prerequisite: NONE**

**Credit: ½ unit Grades 9-12**

Sports & Entertainment Marketing provides a solid knowledge base in the areas of marketing, economics, sponsorship, public relations, sales, advertising, licensing, and other industry related topics. Due to an increasingly diverse sports & entertainment world, companies are planning a variety of unique promotional activities targeting a wide consumer base. Becoming involved with event marketing through concerts, theater, movies, videos, sports television, and radio is one of the most effective and entertaining ways a company can market its products.

## **International Business (J012)**

**Prerequisite: NONE**

**Credit: ½ unit Grades 9-12**

International Business is a course to develop an appreciation of knowledge, skills, and abilities needed to live and work in a global marketplace. Students will become aware of diversity in cultures and associated customs as well as appropriate business conduct within the international marketplace through project-based learning. The main content areas for this course are: Our Global Economy, US and Work Geography, International Trade, Foreign Currencies and Values, Time Zones, and Travel, Cultural and Social Diversity, and Multicultural Marketing.

## **Career Pathways (J014)**

**Prerequisite: NONE**

**Credit: ½ unit Grades 9-12**

Career Pathways is a course where you will learn your role in the workplace and within the economy. Students will have the opportunity to analyze their personal strengths, weaknesses, lifestyle goals, and work values. Students will research several career options that are available to them and will be able to listen to guest speakers from various career fields. Students will match their interests and goals with two career options that suit them and will follow through with an educational and career plan to attain their goal.

## **Business Media (J013)**

**Prerequisite: NONE**

**Credit: ½ unit    Grades 9-12**

Business Media is a course designed to teach students how to create professional Multimedia documents in Microsoft Word, Excel, PowerPoint, Publisher, and Access. The topics include how to use fonts and clip art effectively, and how to arrange text and graphics on the page.

Examples of documents include letters, brochures, business cards, flyers, posters, greeting cards, banners, newsletters, booklets, presentations, and reports. Students will also learn about growing social media in business and how to create engaging posts, videos, images to increase the overall social media status. Students will compile a digital portfolio that can be used for future school projects and reference.

## English Department

Each student must take four years of English to be eligible to graduate from Horseheads High School.

The English curriculum focuses on the literary skills necessary for success at the high school level and beyond. Classes provide opportunities for growth in the areas of writing, speaking, listening, and reading.

According to the Next Generation Learning Standards, students should strive to:

- ❖ Comprehend and evaluate complex texts across a range of types and disciplines.
- ❖ Construct effective arguments.
- ❖ Adapt their communication in relation to audience, task, purpose, and discipline.
- ❖ Understand precisely what an author or speaker is saying, but also question an author's or speaker's assumptions and premises.
- ❖ Cite specific evidence when offering an oral or written interpretation of a text.
- ❖ Employ technology thoughtfully to enhance their reading, writing, speaking, listening, and language use.
- ❖ Tailor their searches online to acquire useful information efficiently.
- ❖ Actively seek to understand other perspectives and cultures through reading and listening.

### English 9 (A550)

**Prerequisite: NONE**

**NCAA Approved**

**Credit: 1 unit Grade 9**

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

### English 10 (A650)

**Prerequisite: English 9**

**NCAA Approved**

**Credit: 1 unit Grade 10**

English 10 is the required sophomore year course that focuses on the essential standards of the New York State Next Generation curriculum. Students will be engaged in listening and speaking exercises. Assigned reading will come from a variety of genres (short stories, plays, poems, novels, and nonfiction). All students will participate in a full classroom study of one play by William Shakespeare and one or two novels from a list of titles adopted for 10<sup>th</sup> grade.

Regular composition work will be assigned, with some essays requiring a rewrite. Continued preparation for the junior year English Regents exam is a part of this course. Additionally, students will improve their grammar and vocabulary through a series of structured units. Following classroom instruction and library visits, students will produce a 4-page (minimum) M.L.A.-style research paper that builds on the skills of the ninth-grade research unit. The course will culminate with a local final examination that will include fiction and nonfiction reading comprehension tasks and an argument-based essay.

### **English 11 (A750)**

**Prerequisites: English 9 and English 10**

**NCAA Approved**

**Credit: 1 unit            Grade 11**

English 11 is the required junior year course that focuses on the essential standards of the New York State Next Generation curriculum. This course is a survey of American Literature from colonial times to present day. The purpose of this course is to acquaint students with the thoughts and contributions of American writers and the periods during which they wrote. Students will be engaged in listening and speaking exercises. Assigned readings will come from a variety of genres such as short stories, plays, poems, novels, and nonfiction. Regular composition work will be assigned, with some essays requiring a rewrite. Continued preparation for the English Regents exam is a part of this course. Additionally, students will improve their grammar and vocabulary through a series of structured units. Following classroom instruction and library visits, students will produce a 5-page (minimum) M.L.A.- style research paper that builds on the skills of the tenth-grade research unit. The course will culminate with the New York State English Regents exam. The student's grade on this exam counts as their Final Exam grade for the course.

### **American Voices (A760)**

**Prerequisites: English 9 and English 10**

**Co-requisite: AP US History**

**NCAA Approved**

**Credit: 1 unit            Grade 11**

American Voices is a course offered to Junior-level students in tandem with AP US History. In this course, students will examine American literature, history, and culture through the lens of a plurality of American voices; through our questioning of historical narratives and literature, we will examine whose stories are told, how, and why, throughout our nation's literary and chronological history. Students will engage in thematic studies of American Literature, art,

music, and history to both expand upon and support the APUSH curriculum, examining patterns and deviations in both literature and historical documents.

Students will be pushed to write increasingly complex, arguable claims and essays throughout the course, with instruction focused heavily on sophistication and style. Students will also be expected to regularly participate in classroom discussions of the content, with many units' discussions being entirely student-led. Therefore, students electing to take American Voices should be prepared for AP and/or collegiate-level curriculum in literature and composition; students should also be entering with the requisite skills, interest, open-mindedness, and drive to engage thoughtfully and constructively with class discussion, deep textual analysis, and in accepting and applying instructor feedback to compositions and projects. American Voices students are expected to be organized, self-advocating, and hard-working. Students electing to take American Voices should welcome being challenged both by the content of the discourse and the rigor of the curriculum, which is a significant leap in difficulty from the English 10R prerequisite.

American Voices is a mandatory companion course for students enrolled in AP US History. Completing each of these courses will earn students both their Junior year English and Social Studies credits. Students should carefully consider their ability to manage the demands of both courses before committing. American Voices will culminate with the NYS Regents Examination in ELA as the final exam for the course. American Voices meets on an alternating A/B schedule with APUSH.

## **English 12 (A850)**

**Prerequisites: English 9, English 10 & English 11 or American Voices**

**NCAA Approved**

**Credit: 1 unit            Grade 12**

English 12 focuses on preparing students for life after high school by focusing on college and career readiness and what it means to be a contributing citizen in a global society. Students will read and write critically across genres. Writing will include but is not limited to resumes, professional letters and emails, business plans, TED talks, presentations, infographics. Using project-based learning, students will foster skills needed for the future, to include conducting their own research, and form connections within the community. Through the various professional texts and writing tasks, students will consider and explore their future role within their community. Throughout the semester, students will hone their public speaking and communication skills through group collaboration, class discussions, and formal presentations.

## Advanced Placement English (A880)

**Prerequisites:** English 9, English 10 & English 11 or American Voices

**NCAA Approved**

**Credit:** 2 units

**Grade** 12



**CCC:** 6 credit hours

**ENGL 1010 College Comp 1**

**ENGL 1020 College Comp 2**



Advanced Placement English is a rigorous year-long college course that is based on a national curriculum designed and governed by the College Board of Princeton and is intended for skilled seniors. AP English is both demanding and intellectually stimulating. This course requires the students to use their best effort consistently and emphasizes their development of independent thoughts and mature habits of critical thinking.

Students are expected to enter with these requisite skills: the ability to read critically, the ability to engage in constructive discussion, the desire to learn beyond the superficial, a sense of personal and social responsibility, the willingness to accept criticism from both the teacher and their peers, a solid command of language, and the willingness to work hard.

Language and Composition focuses on the development and revision of evidence-based analytical and argumentative writing, the rhetorical analysis of nonfiction texts, the decisions writers make as they compose and revise, and the four “Big Ideas” that are the threadwork for the curriculum: rhetorical situations, claims and evidence, reasoning and organization, and style. Students will evaluate, synthesize, and cite research to support their arguments; read and analyze rhetorical elements and their effects in nonfiction texts; follow the pattern of reading others’ arguments and writing their own; analyze what makes others’ arguments convincing or confusing, engaging, or dull, persuasive or powerless; and emulate, through composition, effective argumentation they have encountered in their reading and analysis.

Literature and Composition focuses on reading, analyzing, and writing about imaginative literature (fiction, poetry, drama) from various periods, and the six “Big Ideas” that are the threadwork of the curriculum: character, setting, structure, narration, figurative language, and literary argumentation. Students will engage in close reading and critical analysis of imaginative literature to deepen their understanding of the ways writers use language to provide both meaning and pleasure; consider a work’s structure, style, and themes, as well as its use of figurative language, imagery, and symbolism; repeatedly practice analyzing poetry and prose, then composing expository, analytical, and argumentative essays that require analysis, interpretation, and synthesis of literary works.

To officially document their achievement in the course, students are prepared to sit for either of the national examinations offered by College Board in May: English Language and Composition or the English Literature and Composition. Many students may elect to sit for both exams.

Students who meet the CCC prerequisite of an 85% or above cumulative average are eligible to enroll and receive six college credits through the ACE program, pending instructor certification and the successful completion of the required Capstone projects.

### **ACE College English (A890)**

**Prerequisites: English 9, English 10 & English 11 or American Voices**

**CCC requires that students have an 85% or above cumulative average to be eligible to enroll in this course.**

**NCAA Approved**

**Credit: 1 unit**

**Grade 12**



**CCC: 3 credit hours**

**ENGL 1010 College Comp 1**

ACE College English is a freshman-level college course which introduces students to the principles of effective academic writing with a focus on crafting clear and persuasive arguments. Students will explore the foundations of argumentative writing, including thesis development, evidence-based reasoning, rhetorical strategies, and audience awareness. Through reading, discussion, and writing, students will analyze a variety of non-fiction texts to understand how arguments are constructed and evaluated. They will practice drafting, revising, and editing essays that present well-supported and coherent arguments on a range of topics. Emphasis will be placed on research skills, critical thinking, and the integration of credible sources into their writing. Grammar, mechanics, and style will also be studied in-depth.

The course will culminate in the required Capstone Paper, which will also serve as the final exam grade. Designed for motivated and diligent students, this course provides the skills necessary for success in college-level writing and beyond. Eligible students will receive three Corning Community College credits.

## **ACE College English II (A891)**

**Prerequisites: ACE College English (A890)**

**CCC requires that students have an 85% or above cumulative average to be eligible to enroll in this course.**

**NCAA Approved**

**Credit: 1 unit**

**Grade 12**



**CCC: 3 credit hours**

**ENGL 1020 College Comp 2**

ACE College English II is a freshman-level college literature course which explores varied works of literature and practices the college-level writing skills obtained in ACE College English I. This course offers an engaging introduction to the study of literature, providing students with the tools to analyze and appreciate diverse works of fiction, poetry, and drama. Students will explore major literary genres and themes from a variety of historical periods and cultural perspectives. Through close reading, discussion, and writing, students will identify literary devices, examine authorial intent, and evaluate the social and cultural context of the studied works. Assignments will include essays, reflective responses, and class discussions designed to enhance students' ability to interpret and critique literature effectively. The course emphasizes the development of critical thinking and writing skills, with a focus on crafting clear, persuasive literary analyses.

The course will culminate in the required Capstone Paper, which will also serve as the final exam grade. Designed for motivated students who wish to deepen their understanding of literature and its role in shaping human experience, this course provides the skills necessary for success in college-level analysis and beyond. Eligible students will receive three Corning Community College credits.

## **Mythology (A801)**

**Prerequisites: English 9 and English 10**

**NCAA Approved**

**Credit: 1 unit**

**Grades 10-12**

Mythology offers an introduction to the myths, legends, and stories from various world cultures, focusing on gods, goddesses, heroes, and monsters. Students analyze these myths to understand how past cultures explained the world, human nature, and morality, and they explore the enduring themes and cultural impact of these stories on modern literature, art, and society. The course focuses primarily on Greek and Norse myths, but students will also write myths of their own. The coursework involves frequent reading, analysis, presentations, projects, and writing assignments.

## **Creative Writing (A803)**

**Prerequisites: English 9**

**NCAA Approved**

**Credit: 1 unit            Grades 9-12**

Creative Writing is a course where students will read and discuss the work of well-established poets and fiction writers with special attention to form, structure, narrative, and poetic devices. The reading component of this course will enable students to explore the 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.

## **Media Production (A841)**

**Prerequisites: English 9 and English 10**

**Credit: 1 unit            Grades 10-12**

Media Production is a course that teaches students the persuasive power of oral and visual communication. Students will be exposed to the various methods of media communication within society. It exposes students to magazines, radio, websites, social media, advertising, and the podcasting industry. Students will explore film and video communication techniques through modern camera applications and Canva. Assignments will include a class publication, audio productions, video tasks, ad campaigns, and website production. Experts in the field of graphic design, radio, and television may come into speak.

## **Fantasy and Science Fiction (A842)**

**Prerequisites: English 9 and English 10**

**NCAA Approved**

**Credit: 1 unit            Grades 10-12**

This course introduces fantasy and science fiction as separate styles of writing. The course offers 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.

### **ACE Public Speaking (A854)**

**Prerequisites: English 10**

**NCAA Approved**

**Credit: 1 unit**

**Grade 11-12**



**CCC: 3 credit hours**

**SPCH 1080 Public Speaking**

ACE Public Speaking is a freshmen-level college course which develops self-awareness and audience awareness through oral presentation. Students will organize and present material for a variety of speaking occasions utilizing techniques such as exposition, visual design, argumentation, narration, and persuasion. Skills and objectives include creating an effective and coherent introduction, body, and conclusion; employing appropriate rhetorical appeals, such as ethos, logos, and pathos; employing appropriate physical techniques (inflection, volume control, eye contact, etc.); demonstrating awareness of audience; and understanding the responsibilities of public speaking (preparedness, ethics, credibility of information, consequences of public addresses, etc.). Besides preparing for and delivering their own original speeches, students will view and analyze others' speeches for strengths and weaknesses.

The course will culminate in the required Capstone Speech, which will also serve as the final exam grade. The course fulfills the SUNY-GER Oral Communications requirement for all first-year college students, and successful students will receive three Corning Community College credits.

### **Drama (A858)**

**Prerequisites: English 9 and English 10**

**Credit: 1 unit**

**Grades 10-12**

This elective introduces students to the art of performance and stagecraft, allowing students to explore theatre both on and off the stage. Through hands-on activities, students will explore acting techniques, improvisation, character development, and script analysis as we read various plays – including modern titles more relevant to students today. In addition to acting, students will gain insight into technical aspects of theater such as set design, costuming, and stage management. Students will also get hands-on experience with stage and special effects makeup and learn how to design and build props to be utilized in the school musical production. From

crafting realistic wounds to creating magical transformations, students will discover the secrets behind the scenes that make theater unforgettable. Students may even have the opportunity to attend a Broadway show. This course emphasizes creativity, collaboration, and communication skills. No prior experience is required—just a willingness to participate, use your imagination, and express yourself. By the end of the course, students will have developed confidence in public speaking, an appreciation for dramatic literature, and a deeper understanding of the collaborative nature of theater.

## Family & Consumer Sciences Department

The Family & Consumer Sciences program is designed to help students become competent, self-reliant, confident, and caring in managing their personal, family and work lives.

A student can meet their Fine Arts graduation requirement through specific Family & Consumer Science coursework. Students can earn  $\frac{1}{2}$  credit of fine art by taking either Housing and Architecture OR Interior Design. The other  $\frac{1}{2}$  credit is earned through Arts of the Home.

A five-unit sequence in Family and Consumer Science can be an alternate to the World Language requirement. New York State no longer has specified course sequences that must be used in order to meet this requirement. Five units of any CTE course in any CTE area taught by a certified teacher in any of the CTE content areas (agriculture, business, computer science, FACS, health science, technology, and trade/technical education) may be used.

### **The Food Experience (K041)**

**Prerequisite: NONE**

**Credit: 1 unit    Grades 9-12**

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 will learn the importance of good nutrition for a healthy mind and body. An ideal course to develop culinary skills while exploring the many facets of the world of food.

### **Housing and Architecture (K042)**

**Prerequisite: NONE**

**Credit: 1 unit    Grades 9-12**

Explore the fundamentals of housing construction and design. Learn the steps it takes to turn 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. This course can count as a  $\frac{1}{2}$  credit in Fine Art.

### **Food Science (K046)**

**Prerequisite: NONE**

**Credit: 1 unit    Grades 9-12**

**Offered: Every Other Year (2026-2027)**

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. Food labs will accompany each unit, examples include bread, cheese and candy making.

This course can fulfill the third science graduation requirement.

## **Interior Design (K012)**

**Prerequisite: NONE**

**Credit: ½ unit Grades 9-12**

Students will explore the many facets that make a house a home. From floor plans to fabric selections, Interior Design explores the elements necessary to design home interiors. This course focuses on principles, elements, color, textiles, and materials. It is a “how to” course for decorating a home. This up to date, exciting course is a hands-on class for anyone interested in interior design.

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

## **Arts of the Home (K010)**

**Prerequisite: NONE**

**Credit: ½ unit Grades 9-12**

Arts of the Home is a how to course which brings back the “lost arts” which includes extensive hands-on projects such as learning the art of cross stitch, embroidery, decoupage, and much more. Exploring a wide variety of crafts from the past is also a unique facet of this class. Students will engage in self-directed projects that revisit the hobbies of previous generations.

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

## **Child Development (K043)**

**Prerequisite: NONE**

**Credit: 1 unit Grades 9-12**

Child Development is a course where students will discover the world of children. Students will evaluate healthy parenting strategies and will discuss the costs, joys and frustrations of rearing a child. The topics of pregnancy, birth defects, discipline, and nutrition will be covered. The many physical, social-emotional, and cognitive aspects of child development will be explored through hands-on activities and cooperative learning. This is the perfect course for anyone interested in working with children.

## **Child Development II (K013)**

**Prerequisite: Child Development**

**Credit: ½ unit Grades 9-12**

This course is designed for those students who plan on working with children in the future, whether it be in the classroom, clinical setting, or daycare. The course will explore the physiological and psychological development of the child from toddler through elementary school focusing on the fundamentals of learning and play. Activities include a variety of hands-on projects that enhance a child’s cognitive growth to understanding the elements of lesson plan writing and the classroom setting.

**Life 101 (K740)****Prerequisite: NONE****Credit: 1 unit Grade 11-12****Offered: Every Other Year (2027-2028)**

Life 101 is a course that includes classroom activities and interactive computer programs that help students develop the skills for independent living. Students will learn how to find an apartment, furnish it, live within a budget, buy a car, insure it, and even plan a vacation. Students will also practice skills that will show them how to solve problems in all types of personal relationships and give them the ability to build a strong family in the future.

## Health Department

Health Education is a mandated course for graduation. It is only scheduled in the junior or senior year for students.

### Health (P740)

**Prerequisite:** NONE

**Credit:** 1 unit    **Grades** 11-12

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

- Wellness/Choices
- Personal/Social Health
- Mental Health
- Nutrition
- Substance use & abuse (alcohol, nicotine, marijuana, and other drugs)
- Relationship types
- Sexual anatomy
- Pregnancy
- STIs
- Other diseases

### ACE Perspectives of Drugs (P890)

**Prerequisite:** Health

**CCC requires students have an 85% or above cumulative average to be eligible to enroll in this course.**

**Credit:** 1 unit    **Grades** 11-12

**CCC: 3 Credit Hours**

**HLTH 1202**

**Perspective of Drugs**



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

## Interdisciplinary Courses

Some courses may be taught in many different departments. These courses are considered “interdisciplinary.”

### **Career & Financial Management (F040)**

**Prerequisite: NONE**

**Credit: 1 unit    Grades 10-12**

Are you starting to think about life beyond high school? Career & Financial management introduces students to career exploration and financial literacy. This class is designed to better prepare students for college, career, and the financial world. Students will explore multiple career clusters and guest speakers will share their real-world knowledge on multiple topics. Additionally, students will gain financial literacy in topics including gross pay, budgeting, taxes, banking and investing. There is a final examination.

### **ACE First Year Experience (F790)**

**Prerequisite: NONE**

**Credit: 1 unit    Grades 12**



**CCC: 3 credit hours**  
**FYEX 1000 First Year Experience**

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

## Mathematics Department

The program in mathematics offers preparation in the concepts and skills necessary for competence in mathematics, as well as preparation for further study. All courses in math aim to increase understanding of the basic concepts of mathematics and problem solving.

All students are required to earn at least three credits of high school math in order to graduate.

### **Foundations in Math (D540)**

**Prerequisite: Placement by CSE**

**Credit: 1 unit    Grade 9**

Foundations in Math is a course designed to strengthen mathematic skills for special education students who will take the Algebra 1\* and Algebra 1R\* classes. Foundation skills are taught and reinforced to prepare students and ease the transition into high school mathematics, and later into Algebra 1\* and Algebra 1R\*. The course is a semester long course. A department prepared final exam will be administered at the conclusion of the course.

### **Algebra 1 (D543)**

**Prerequisite: NONE**

**Credit: 1 unit    Grades 9-12**

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

### **Algebra 1R (D552)**

**Prerequisite: NONE**

**NCAA Approved**

**Credit: 1 unit    Grades 9-12**

Algebra 1R is a course that is aligned to the New York State Next Generation Learning Standards for Mathematics. The focal point is functions; specifically linear, quadratic, and exponential functions, and then expands to include more specialized functions. Students select from among these functions to model phenomena using the modeling cycle. This course also includes work with rational and irrational numbers, polynomials, expressions and equations, and

statistics. The Algebra 1 Regents Exam will be given at the conclusion of the course and is used as the course final exam.

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

### **Geometry (D643)**

**Prerequisite: Algebra 1R**

**Credit: 1 unit            Grades 9-12**

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

### **Geometry R (D652)**

**Prerequisite: Algebra 1R**

**NCAA Approved**

**Credit: 1 unit            Grades 9-12**

Geometry R is a course that is aligned with the NYS Next Generation Learning Standards for Mathematics. In this course students will build on their previous experiences by learning to define and prove geometric concepts more formally. Key topics include congruence and similarities using transformations, the criteria for triangle congruence and similarity, and the properties and equations of circles. Students will use a variety of hands on and digital methods for geometric constructions, will investigate geometric phenomena with modeling tools, and will be able to demonstrate their ability to apply these principles in real-life situations. The New York State Geometry Regents Exam will be given at the conclusion of this course and is used as the course final exam.

Recommendations: A final average of 85 or above in Algebra 1R and a passing grade on the corresponding Regents exam. Students who do not meet this criteria should take Geometry prior to Geometry R.

## **Algebra 2 (D743)**

**Prerequisite: Geometry R**

**Credit: 1 unit                      Grades 9-12**

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

## **Algebra 2R (D752)**

**Prerequisite: Geometry R**

**NCAA Approved**

**Credit: 1 unit                      Grades 10-12**

Algebra 2R is a course that is aligned with the NYS Next Generation Learning Standards for Mathematics and builds on concepts from Algebra 1R. Students will expand their understanding of functions to include polynomial, rational, radical, and trigonometric functions. In this course, they will learn to model situations and solve equations, including quadratic equations with complex numbers and exponential equations using logarithms. Students will also study trigonometric functions, becoming fluent in sine, cosine, and tangent values. Additionally, they will explore transformations of functions and develop skills in data collection, probability, and statistical analysis through simulations and experiments and will be able to apply these principles in real-world contexts. The New York State Algebra 2 Regents exam will be given at the conclusion of this course and is used as the course final exam.

*Recommendation:* A final average of 85 or above in Algebra 1R and Geometry R and passing grade on the corresponding Regents exams. Students who do not meet this criteria should take and pass Algebra 2 prior to Algebra 2R. A graphing calculator is recommended.

## **Pre-Calculus Skills (D841)**

**Prerequisite: Algebra 2R**

**Credit: 1 unit                      Grades 10-12**

Pre-Calculus Skills is a course that 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.

## **Introduction to Programming (D851)**

**Prerequisite: Geometry R or concurrently enrolled in Geometry R**

**NCAA Approved**

**Credit: 1 unit                      Grades 9-12**

Introduction to Programming is a course that will cover the fundamental concepts of computer programming. Most 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.

## **ACE Pre-Calculus (D860)**

**Prerequisite: Algebra 2R**

**NCAA Approved**

**CCC requires a grade of 85 or above in Algebra 2R or an 80 or above on the Algebra 2R Regents exam to be eligible to enroll in this course.**

**Credit: 1 unit**

**Grades 10-12**



**CCC: 4 Credit Hours**

**MATH 1413 Pre-Calculus Mathematics**

ACE Pre-Calculus is a course designed to provide a comprehensive study of functions which are the basis of calculus and other higher mathematics courses. The characteristics of elementary real functions, including algebraic and graphical analysis, inequalities, absolute values, and logarithms, trigonometry of real numbers, plane analytical geometry, polar coordinates, complex numbers, and Binomial Theorem will be covered. A department final exam will be administered.

## **ACE College Calculus I (D890)**

**Prerequisite: ACE Pre-Calculus**

**NCAA Approved**

**Credit: 1 unit**

**Grades 11-12**



**CCC: 4 Credit Hours**

**MATH 1610- Calculus I**

ACE College Calculus I is the first in a two-course sequence. This 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. A department final exam will be administered.

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

### **ACE College Calculus II (D891)**

**Prerequisite:** ACE College Calculus I

**NCAA Approved**

**Credit:** 1 unit

**Grades** 11-12



**CCC:** 4 Credit Hours

**MATH 1620 -Calculus II**

ACE College Calculus II is the second of a two-course sequence. This 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. A department final exam will be administered.

### **Math for Personal Finance (J042)**

**Prerequisite:** NONE

**Credit:** 1 unit **Grades** 10-12

Math for Personal Finance 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 finance problems such as gross pay, banking, taxes, insurance, investing, buying a house, and budgeting will be covered. Student progress is evaluated through class assignments, quizzes, tests, and the final exam. This course can count as a math requirement once state exam requirements are met.

## Music Department

The music program aims to be inclusive to all students at Horseheads High School. Most of our electives do not require any musical experience to be involved, and our ensembles, like band, choir, and orchestra are open to beginners in some cases.

Many extra-curricular opportunities are available such as NYSSMA, Blue Raider Marching Ensemble, Greenroom Players drama productions, percussion ensembles, winter guard, jazz band, a cappella groups, pop ensemble, music trips, and much more.

Concerts and performances are part of our program, but more importantly, our goal is for students to feel comfortable making music with their friends and family beyond graduation. Guided by the artistic processes that our NYS Learning Standards for the Arts stress, (creating, performing, responding, and connecting,) we will work to develop skills needed for a comprehensive music education.

A five-credit sequence in the Arts can be an alternative to the World Language requirement for the Advanced Designation Diploma.

All music courses count toward the fine art requirement for graduation.

### **Concert Band (H450)**

**Prerequisite: NONE**

**Credit: 1 unit    Grades 9-12**

Concert Band is a large instrumental ensemble consisting of wind and percussion instruments. Students study various styles of band literature while focusing on musicianship and technique. Concert band is a full year course that meets daily for 40 minutes. Students also attend lessons once weekly in order to receive credit. Four mandatory concerts are given yearly. Additional opportunities that may be offered to Concert Band students include Harmony Bridge, Jazz Band, Marching Band, NYSSMA, Pit Orchestra, Pop Ensemble, Percussion Ensemble, and more. Students receive a numerical grade and one fine arts credit.

### **Wind Ensemble (H650)**

**Prerequisite: Music Teacher Recommendation**

**Credit: 1 unit    Grades 9-12**

Wind Ensemble is a select instrumental ensemble open to wind and percussion students in grades 9-12 by music teacher recommendation only. Students study various styles of band literature while focusing on musicianship and technique. Wind Ensemble is a full year course that meets daily for 40 minutes. Students also attend lessons weekly in order to receive credit. Four mandatory concerts are given yearly. Additional opportunities that may be offered to Wind Ensemble students include Harmony Bridge, Jazz Band, Marching Band, NYSSMA, Pit Orchestra, Pop Ensemble, Percussion Ensemble, and more. Students receive a numerical grade and one fine arts credit upon successful completion.

## **Symphonic Orchestra (H500)**

**Prerequisite: NONE**

**Credit: 1 unit Grades 9-12**

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

## **Philharmonic Orchestra (H550)**

**Prerequisite: Music Teacher Recommendation**

**Credit: 1 unit Grades 9-12**

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

## **Chorale (H000)**

**Prerequisite: NONE**

**Credit: 1 unit Grades 9-12**

Chorale is a large vocal ensemble, which is primarily for students in grade 9 and 10, but is open to all students. Students will study a variety of choral literature and styles while learning proper singing techniques and developing choral musicianship. Chorale is a full-year course that meets every day for 40 minutes. Four mandatory concerts are given yearly. Students have several extracurricular opportunities available including small groups, the Pops concert, and NYSSMA participation. Students receive an H/P/F grade and one fine art credit upon successful completion.

## **Concert Choir (H600)**

**Prerequisite: Music Teacher Recommendation**

**Credit: 1 unit Grades: 11-12**

Concert Choir is a large vocal ensemble consisting primarily of students in grades 11-12. Students will study a variety of choral literature and styles while learning proper signing techniques and developing choral musicianship. Concert Choir is a full year course that meets every day for 40 minutes. Four mandatory concerts are given yearly. Students have extra-curricular opportunities frequently available including small groups, the Pops concert, and NYSSMA participation. Students receive an H/P/F grade and one fine art credit upon successful completion.

## **Voice Class (H015)**

**Prerequisite: NONE**

**Credit: ½ unit Grades 9-12**

Voice Class is a course where students will learn the basics of vocal techniques and sound production. Students will learn individual songs and develop listening skills by observing other singers and assessing specific vocal techniques. Assessments come directly from the state guidelines and the NYSSMA manual. Class is structured for group and individual work, often being assessed by peers. The teacher will work with students in a group setting and one-on-one. No prior musical knowledge is necessary; however, students will be required to sing individually and in groups. This course can count as a ½ credit of fine art.

## **Introduction to Guitar (H010)**

**Prerequisite: NONE**

**Credit: ½ unit Grades 9-12**

Introduction to Guitar is an engaging performance-based class geared toward beginners. Focus is on using correct posture, note-reading, rhythmic patterns, chord study, finger-picking styles, musical forms, and in-class recitals. A final exam is required. Class meets every other day for 80 minute and no prior musical knowledge is necessary. This course can count as a ½ credit of fine art.

## **Introduction to Piano (H011)**

**Prerequisite: NONE**

**Credit: ½ unit Grades 9-12**

Introduction to Piano is a class where students will learn the basics of piano techniques. Students will study basic music theory and learn individual songs. Class is structured for group work and to allow students to move forward at their own pace. No prior musical knowledge is necessary. The effective use of practice time will allow a more efficient progression in the class. This class meets for 80 minutes every other day. This course can count as a ½ credit of fine art.

## **Musical Theatre Workshop (H012)**

**Prerequisite: NONE**

**Credit: ½ unit Grades 10-12**

Musical Theatre Workshop is a higher-level thinking class where students will dive into the world of musical theatre, learn about music, composers, structure, stories, and history of theatre. Students will be expected to develop their writing skills by creating synopses of various musicals. Several examples of musicals will be shown to represent a variety of styles and time periods, from classics to modern works. No prior musical knowledge is necessary, but students need some American History context and upper-level writing and critical thinking skills. Class meets every other day for 80 minutes. This course can count as a ½ credit of fine art.

## **Theory, History and Composition (H016)**

**Prerequisite: NONE**

**Credit: ½ unit Grades 9-12**

**Offered: Every Other Year (2027 – 2028)**

Theory, History and Composition cover various topics in theory, history, composition, listening discussions, and music from cultures around the world, including film, tv, and video games. An emphasis will be placed on expanding the student's music vocabulary and analytical music skills. The course will contain projects centered on the student's musical interests. Theory, History and Composition meets every other day for 80 minutes and no prior musical knowledge is necessary. This course can count as a ½ credit of fine art.

## **World Percussion (H018)**

**Prerequisite: NONE**

**Credit: ½ unit Grades 9-12**

**Offered: Every Other Year (2027 – 2028)**

World Percussion is an engaging, performance-based class in which students will gain a broad understanding of various cultures' use of percussion instruments. Areas of exploration include traditional African and Arabic drumming, Latin percussion, orchestral percussion, and marching percussion. Students will learn to play instruments such as the djembe, doumbek, conga, marimba, and snare drum. The class meets every other day for 80 minutes and no prior musical knowledge is necessary. A final exam is required. This course can count as a ½ credit of fine art.

## Physical Education Department

All students are required to take Physical Education every semester according to New York State Law. Grades 9 and 10 will take PE in the fall and spring semesters. Grades 11 and 12 will take PE one semester and complete the Personal Fitness Plan on the opposite semester.

### **Physical Education 9<sup>th</sup> Grade (N110/N112)**

**Prerequisite: NONE**

**Credit: ½ unit (each semester) Grade: 9**

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

### **Physical Education (N010/N012)**

**Prerequisite: PE 9<sup>th</sup> Grade**

**Credit: ½ unit (each semester) Grade: 10-12**

Students in 10<sup>th</sup> thru 12<sup>th</sup> grades will receive a program that is elective based, with each grouping having a particular theme. The emphasis of this course will be on demonstrating competency and proficiency and will be supported by assessments. Students will be required to take different electives over the course of their junior and senior years. PE will be scheduled in the semester where it best fits in relation to other classes in the student schedule.

#### **First Semester Electives**

- **Advanced Strength Training (Fitness Elective)** – Students will research, develop, and implement personal strength training programs using different training styles.
- **Team A** – This elective will have activities based on the availability of facilities. Activities may include flag football, speedball, softball, floor hockey, water polo, basketball, and nitro ball.
- **Outdoor / Recreation** – Activities may include archery, kayaking/canoeing, fly fishing, tennis, pickleball, cornhole, spike ball, Kan Jam, and lifeguarding/CPR. Other activities may include snowshoeing, orienteering, hiking, etc.

- **Individual / Duo** – Activities may include badminton, bowling (\$25 fee), golf, pickleball, tennis, archery, ice skating or roller skating (\$25 fee), frisbee golf, lifeguarding/CPR, adventure learning dance.

### **Second Semester Electives**

- **Advanced Strength Training (Fitness Elective)** – Students will research, develop, and implement personal strength training programs using different training styles.
- **Team A** – This elective will have activities based on the availability of facilities. Activities may include basketball, volleyball, handball, touch rugby, ultimate frisbee, and water games.
- **Outdoor / Recreation** – Activities may include archery, kayaking/canoeing, fly fishing, tennis, pickleball, cornhole, spike ball, Kan Jam, and lifeguarding/CPR. Other activities may include snowshoeing, orienteering, hiking, etc.
- **Individual / Duo** – Activities may include badminton, bowling (\$25 fee), golf, pickleball, tennis, archery, ice skating or roller skating (\$25 fee), frisbee golf, lifeguarding/CPR, adventure learning dance.

### **Adaptive Physical Education**

**Prerequisite:** Placement by CSE

**Credit:** ½ unit (each semester) **Grade:** 9-12

Students with permanent physical conditions will participate in a program specially designed to meet individual needs.

### **Personal Fitness Plan (N700)**

**Prerequisite:** PE 9<sup>th</sup> Grade and PE 10<sup>th</sup> Grade

**Credit:** NONE **Grade:** 11-12

To meet New York State educational law, each junior and senior is expected to complete a required Personal Fitness Log during the semester that 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 Canvas. This class is non-credit bearing and cannot be used to replace Physical Education, however the final grade will be reflected on the student transcript.

## Science Department

Science is concerned with the facts, concepts, and processes at work in the physical and biological world. Emphasis is placed on the development of problem-solving skills and informed scientific attitudes. The goal of science education is to educate all students in the 21<sup>st</sup> century skills necessary to prepare them for success in today's world.

In order to graduate from high school, students must pass three science credits. One science credit must be a physical science, one credit must be a life science, and the third can be an elective of the student's choice.

Lab science courses are scheduled with an additional corresponding lab period. These classes are Earth & Space Science; Life Science: Biology; Chemistry; and Physics. Students will meet five days a week for class and then have an additional lab period every other day. Laboratory experiences reinforce theory, develop skills, and allow students to analyze and interpret data. Each of these lab science courses will culminate with a state Regents examination. Eligibility to take the examination is based on successful completion of a minimum 1200 minutes of laboratory experience AND successful completion of state mandated investigations.

### **General Science (C541)**

**Prerequisite: NONE**

**Credit: 1 unit                      Grade 9**

General Science is designed to help students adjust to the rigor of high school science, especially the demand of Regents 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. It will cover introductory topics in life science and physical sciences. This course is designed to help students be successful with lab requirements and deadlines. The course will present basic vocabulary and introductory knowledge of each of these sciences. After this class, students should be able to move to General Biology or Regents Living Environment class.

This class will fulfill one unit of physical science for graduation purposes.

### **Earth & Space Science (C555)**

**Prerequisite: NONE**

**NCAA Approved**

**Credit: 1 unit                      Grade 9 or 10**

This course engages students in exploring Earth's systems through real-world phenomena and hands-on investigations. Students work to explain events and processes by using the three dimensions of the NYSSLS: Disciplinary Core Ideas, Science and Engineering Practices, and Crosscutting Concepts. Throughout the year, they study how Earth's materials, energy, climate, and human activity interact, and they learn to build evidence-based explanations using data, models, and scientific reasoning.

Students investigate topics such as Earth’s place in the universe, weather and climate, plate motion, natural hazards, human impacts on Earth systems, and the cycling of matter and energy across the planet. They also use engineering design practices to propose solutions to local and global challenges involving natural resources, environmental change, and sustainability.

### **General Biology (C640)**

**Prerequisite: NONE**

**Credit: 1 unit            Grade 9 or 10**

This General Biology course provides students with a strong foundation in the core ideas of life science by reviewing key middle school NGSS-based concepts while gradually introducing the knowledge and skills expected in high school biology. Students revisit essential topics such as cell structure and function, ecosystems, genetics, and evolution, deepening their understanding through inquiry-driven activities and real-world phenomena. Emphasis is placed on reinforcing scientific practices—modeling, data interpretation, investigation design, and evidence-based explanation—to ensure students are prepared for more advanced biological study.

Building on this foundation, the course introduces high school–level concepts that bridge students into the Living Environment and other upper-level science courses. Students explore more complex biological processes, including homeostasis, energy flow in organisms, inheritance patterns, and the mechanisms of evolution. Through labs, collaborative projects, and engineering challenges, learners strengthen critical thinking and scientific reasoning skills. By the end of the course, students are equipped with the confidence and background knowledge needed to succeed in high school biology and to understand biology’s role in the natural world.

## **Astronomy/Historical Geology (C641)**

**Recommendation: Earth & Space Science**

**NCAA Approved**

**Credit: 1 unit            Grades 9-12**

Astronomy is designed for a 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 the final exam.

## **Life Science: Biology (C655)**

**Prerequisite: NONE**

**NCAA Approved**

**Credit: 1 unit            Grade 9 or 10**

This Life Science course, aligned with the New York State NGSS standards, guides students through major biological concepts such as structure and function, ecosystems, heredity, and evolution. Through real-world phenomena and hands-on investigations, students develop skills in modeling, data analysis, experimentation, and scientific explanation. The course emphasizes understanding how living systems operate and how organisms interact with one another and their environment.

Students participate in laboratory activities, collaborative projects, and engineering design challenges that build scientific literacy and critical thinking. By exploring NGSS Life Science domains—LS1, LS2, LS3, and LS4—learners gain a strong foundation in biology and the practices used by scientists. This course prepares students for advanced science study and helps them become informed citizens in a biologically driven world.

## **General Chemistry (C740)**

**Prerequisite: General Biology or Life Science: Biology**

**Credit: 1 unit            Grades 10-12**

General Chemistry is an introduction to the general principles of chemistry. Topics may include the atom, periodic table, chemical bonds, chemical reactions, nuclear reactions, matter and energy, gas laws, solutions, and organic chemistry. The mathematics of chemistry has been deemphasized and replaced by a practical approach to the study of everyday chemistry. A local exam is given at the conclusion of the course.

## **Chemistry (C750)**

**Prerequisites: Earth & Space Science, Life Science: Biology, and Geometry R (or concurrent enrollment in Geometry R)**

**NCAA Approved**

**Credit: 1 unit            Grades 10-12**

Regents Chemistry is a rigorous, laboratory-based science course aligned to the New York State P–12 Science Learning Standards, emphasizing three-dimensional learning through scientific practices, crosscutting concepts, and core chemical principles. Students investigate real-world phenomena while developing the ability to solve algebraic expressions, apply logical reasoning, interpret complex word problems, and use dimensional analysis.

The curriculum explores atomic structure, bonding, periodic trends, chemical reactions, energy changes, solutions, equilibrium, and environmental chemistry, supported by the required 1,200 minutes of hands-on laboratory work and three mandated laboratory investigations needed to sit for the Regents Examination. Students who do not have these investigations on file will not be permitted to take the exam, even if they have completed the required 1,200 minutes of lab work.

Students should expect nightly homework, frequent and challenging assessments, and a fast-paced academic environment; the NYS Chemistry Regents Exam will serve as the final exam for the course.

## **North American Wildlife (C752)**

**Prerequisite: Successful completion on any two-core curriculum Science classes**

**Credit: 1 unit                      Grades 9-12**

North American Wildlife is a course that introduces students to the wildlife that live on our North American continent. Emphasis will be placed on how we as humans have adversely affected the environment and wildlife populations and what is being done today to correct these mistakes. Students will study all aspects of some of North America's most interesting wildlife. Students will complete brief writing assignments and discussions based on the material presented in class through videos, reading, and projects.

## **General Physics (C840)**

**Prerequisite: General Biology or Life Science: Biology**

**Credit: 1 unit                      Grades 10-12**

General Physics is a course to provide a humanistic approach to the study of physics in which fundamentals are developed. It is designed for students to learn more about the scientific aspects of the world in which they live. The content emphasizes laboratory activities and is divided into several basic core areas: motion, sound and light, electricity, and magnets. Evaluation is based on labs, problem solving tasks, and tests.

## **Physics (C850)**

**Prerequisite: Chemistry, Algebra 2R or concurrent enrollment**

**NCAA Approved**

**Credit: 1 unit                      Grades 11-12**

Regents Physics introduces students to the fundamental principles governing the physical universe, including motion, forces, energy, waves, electricity, magnetism, optics, and modern physics concepts. Aligned with the New York State P-12 Science Learning Standards, this course emphasizes inquiry-based learning and the integration of Science and Engineering Practices, Disciplinary Core Ideas, and Crosscutting Concepts.

Students will engage in hands-on investigations, develop and use models, analyze data, and apply mathematical reasoning to explain real-world phenomena. Topics include kinematics, dynamics, conservation laws, wave behavior, and the interactions of matter

and energy, and will be supported by the required 1,200 minutes of hands-on laboratory work and three mandated laboratory investigations needed to sit for the Regents Examination. Students who do not have these investigations on file will not be permitted to take the exam, even if they have completed the required 1,200 minutes of lab work.

Students should expect nightly homework, frequent and challenging assessments, and a fast-paced academic environment; the NYS Physics Regents Exam will serve as the final exam for the course.

### **Anatomy & Physiology (C851)**

**Prerequisite: Life Science: Biology and Chemistry**

**NCAA Approved**

**Credit: 1 unit Grades 11 & 12**

Anatomy & Physiology is an intensive study of anatomy, physiology, and genetics such as that might be found in a freshman college course. This course is of value to students entering nursing, sports medicine, and other health related fields. Student grades are determined from general classroom performance, labs, topic quizzes, and major unit tests. A final exam is given at the end of this course.

### **ACE Biology I (C890)**

**Prerequisite: Life Science: Biology & Chemistry**

**CCC requires students have an 85% or above cumulative average and a 75% or higher in Living Environment and Regents Chemistry to be eligible to enroll in this course.**

**NCAA Approved**

**Credit: 1 unit (HHS) Grades 11 & 12**



**CCC: 4 Credit Hours**

**BIOL 1510 General Biology I**

ACE Biology I is a rigorous course designed for students planning to major in a STEM field that emphasizes the modern aspects of biology and its techniques.

Students will study biochemistry, cell structure and physiology, genetic mechanisms, a survey of the three domains of organisms, and plant structure and physiology. Evaluation is based on lab reports, assignments, chapter quizzes, lab practicums, unit exams, and a final exam. Students may choose to take the AP exam in the Spring.

## **ACE Biology II (C891)**

**Prerequisite: ACE Biology I**

**NCAA Approved**

**Credit: 1 unit (HHS) Grades 11 & 12**



**CCC: 4 Credit Hours**

**BIOL 1520 General Biology II**

ACE Biology II is a course that emphasizes the modern aspects of biology and its techniques. Students will study evolution, animal diversity, human and animal anatomy/physiology, animal behavior, reproduction and development, and ecology. Evaluation is based on chapter quizzes, lab practicums, hourly exams, an individual research project and a final exam. Students may choose to take the AP exam.

## **ACE Chemistry I (C893)**

**Prerequisite: Chemistry & Algebra 2R**

**CCC requires students have an 85% or above cumulative average and a 75% or higher in Regents Chemistry to be eligible to enroll in this course.**

**NCAA Approved**

**Credit: 1 unit (HHS) Grades 11 & 12**



**CCC: 4 Credit Hours**

**CHEM 1510 General Chemistry I**

ACE Chemistry I is a course that studies the principles of chemistry and its quantitative aspects, stoichiometry, chemical reactions, gas laws, quantum theory, periodic table structure and bonding, and solutions. Both descriptive and theoretical chemistry are integrated throughout the course. A comprehensive final is given at the end of the course. The final grade is determined by exam/quiz grades, lab grades and the final exam. A student may opt to challenge the AP exam at this level but should realize that many topics on the exam will not be covered in this course. In addition, this course is intended for students planning to major in a STEM field in college or enter a STEM related field. It is recommended that students be familiar with algebraic and logarithmic calculations. High school physics is recommended but not required.

## **ACE Chemistry II (C894)**

**Prerequisite: ACE Chemistry I**

**NCAA Approved**

**Credit: 1 unit (HHS) Grades 11 &12**



**CCC: 4 Credit Hours**

**CHEM 1520 General Chemistry II**

ACE Chemistry II continues the study of principles of chemistry and its quantitative aspects. Students will take an in-depth look at crystal structures, solutions, rate of reaction, equilibrium, acids, bases, thermodynamics, and electrochemistry. Both descriptive and theoretical chemistry are integrated throughout the course. The final grade is determined by exam/quiz grades, lab grades, and the final exam. A students will be better prepared if they choose to challenge the AP exam at this level but should realize that a few topics on the exam may not be covered in this course. As with ACE CHEM 1, this course is intended for students planning to major in a STEM field in college or enter a STEM related field.

## **ACE Physics (C892)**

**Prerequisite: Regents Physics & ACE Calculus I**

**NCAA Approved**

**Credit: 1 unit (HHS) Grades 11 & 12**



**CCC: 4 Credit Hours**

**PHYSICS 1820 Physics I**

ACE Physics is a course that is designed to be the equivalent of general physics and calculus based for a course that is generally taken in the final semester of college. This course is an introductory principle of classical and modern physics. Mechanics of solids, periodic motion and sound, and heat and properties of matter. A school examination is given at the conclusion of this course. The evaluation is based on problem sets, lab work, tests, periodic quizzes and exams.

## **Marine Biology (C010)**

**Prerequisite: Life Science: Biology or General Biology**

**NCAA Approved**

**Credit: ½ unit Grades: 10-12**

Marine Biology is a course that emphasizes the impact of humans on the ecology of the marine ecosystem. The objective of this course will be to develop and understanding of marine biology. Such an understanding is fundamental to the appreciation, preservation, and protection of the marine environments worldwide. Connection between marine systems, biological processes and global health will be studied in this course by building a working

knowledge of the field of marine biology itself. Brief open-ended writing assignments, short projects and activities coupled with technology will be assigned to help develop scientific literacy. Evaluation will be based on homework, activities, short projects, quizzes, and tests.

### **Zoology (C011)**

**Prerequisite: Life Science: Biology**

**NCAA Approved**

**Credit: ½ unit                      Grades 10-12**

Zoology is a course where students will 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. This course is ideally suited for any student planning to pursue biology in college or any student with a general interest in animal life.

The course will be divided into two major units: Invertebrate and Vertebrate Zoology. Brief open-ended writing assignments, short projects and activities coupled with technology will be assigned to help develop scientific literacy. Evaluation is based on homework, activities, short projects, quizzes, and tests.

### **Forensic Science (C012)**

**Prerequisite: Earth & Space Science or Life Science: Biology AND**

**Algebra 1R**

**Credit: ½ unit                      Grades 10-12**

Forensic Science is a project-based course that provides students with the opportunity to experience real world forensic techniques through processing and/or analyzing theoretical crime scenes and case studies of specific crimes committed throughout history. Students will apply skills from a variety of content areas including math, technology, psychology, biology, chemistry, and physics. Developing skills in reading comprehension and writing is also heavily emphasized. This is NOT a lecture style class. Rather, students work individually or in small groups with the instructor serving as a guide while they experience situations requiring forensic techniques. Students are expected to learn the concepts using resources that include their textbook, self-guided activities, and the “The Poisoner’s Handbook”.

## Social Studies Department

Four units of Social Studies are required for graduation. Because of Horseheads' intensive block scheduling, the first two credits (Global History 1 and Global History 2 OR AP World History) will be scheduled during the same school year. The remaining courses are taken in the junior and senior year.

Social Studies courses are designed to provide students understanding of the history and culture of both the United States and the world around them. Emphasis is placed on developing a variety of research, communication, and collaborative skills.

### **Global History & Geography I (B550)**

**Prerequisite: NONE**

**NCAA Approved**

**Credit: 1 unit    Grades 9 or 10**

Global History 1 is the first course of the state mandated Social Studies program 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.

### **Global History & Geography II (B650)**

**Prerequisite: Global 1**

**NCAA Approved**

**Credit: 1 unit    Grades 9 or 10**

Global II is the second course of the state mandated Social Studies program. This course will be scheduled in the same year as Global I and it continues the chronological approach. 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.

### **AP World History: Modern (B680)**

**Prerequisite: NONE**

**NCAA Approved**

**Credit: 2 units    Grade: 10**



AP World History is a year-long college-level course offered to tenth grade students in lieu of Global History I and II. This introduction to world history meets the curricular requirements for, both, College Board's Advanced Placement and New York State Regents' Global History & Geography. College credits may potentially be obtained should students receive a passing score on 'World History:

Modern' exam administered through AP CollegeBoard. Consequently, the expectations and grading for this course maintain a collegiate standard. All students enrolled in the course will be prepared to take the Advanced Placement test in May, as well as the Global History & Geography Regents exam in June.

World history content from approximately 10,000 BCE through modern times will be explored through an analytical lens, emphasizing political, social, economic, cultural, environmental, and technological characteristics of various civilizations, empires, nation-states, trade networks, and international institutions. Upon completion of the course, students should be able to evaluate historical content from comparative perspective and apply content to current situations throughout the world. Students may expect significant outside reading to complement the material in the course, and writing tasks are common throughout the year as both the AP and Regents exams weigh these significantly in their scoring. The New York State Global History and Geography Regents is considered the final exam for this course, and scores attained on the AP exam will have no bearing on overall averages.

### **US History & Government (B750)**

**Prerequisite: Global I & II OR AP World History**

**NCAA Approved**

**Credit: 1 unit                      Grade: 11**

US History & Government is a required course for graduation. The course is a chronological approach to the development of the nation's history. The course follows the New York State Social Studies Framework, beginning with the foundation of European colonies in North America and finishing with discussions of modern events in United States History. The course utilizes primary and secondary sources throughout U.S. History to develop students' historical thinking skills. Evaluation is based on class participation, quizzes, unit tests, assignments and occasional projects. The Regents exam is the final exam for this course.

### **AP United States History (B780)**

**Prerequisite: Global I & II OR AP World History**

**Co-requisite: American Voices**

**NCAA Approved**

**Credit: 1 unit (full year course, scheduled on A or B day)    Grade: 11**



AP US History is a yearlong course offered to juniors in lieu of American Studies. It is scheduled in conjunction with American Voices. The AP US History will be schedule yearlong on either an A or B day with American Voices scheduled on the opposite day. It is a two-semester survey of U.S. History from the Pre-Columbian Era to Present Day. Solid reading and writing skills, along

with a willingness to devote considerable time to homework and studying are necessary to succeed. Emphasis is placed on critical and evaluative thinking skills, essay writing, interpretation of original documents, and historiography. Students are prepared to sit for the AP exam offered in May as well as the Regents exam. The New York State US History Regents is the final exam for the course.

### **Economics / Participation in Government (B850)**

**Prerequisite: Global History I, II, US History (or alternate AP level courses)**

**NCAA Approved**

**Credit: 1 unit                      Grade 12**

Participation in Government aims to provide students with opportunities to become engaged in the political process by acquiring the knowledge and practicing the skills necessary for active citizenship. Economics examines the principles of the United States free market economy in a global context. There will be a focus on individual financial responsibility, supply and demand in determining prices, changes in the workforce in the United States, the role of entrepreneurs in our economy, and the effects of globalization. We will also explore the challenges facing the U.S. free market economy in a global environment and various policy-making opportunities available to government to address these challenges. Evaluation is based on regular classwork, various individual and group projects, and current event assignments.

### **AP US Government and Politics (B881)**

### **AP Comparative Government and Politics (B882)**

**Prerequisite: Global History I, II, US History (or alternate AP level courses)**

**NCAA Approved**

**Credit: 2 units                      Grade 12**



**CCC: 3 credit hours**

**GOVT 1010 American Federal Government**



AP US Government and Politics meets the 12<sup>th</sup> grade Social Studies graduation requirement. These two AP courses are designed to run together on an A/B day rotation for a full year to give students the opportunity to take both AP US Gov't & Politics and AP Comparative Gov't & Politics. Students must take both courses together. These courses share foundational content on the topics of sovereignty, authority and power, political institutions, citizens, society and the state along with political and economic change. AP US Gov't & Politics focuses on the politics of the United State of America. AP Comparative Government focuses on methods of comparing the politics of China, Russia, Iran, Great Britain, Nigeria, and Mexico. It is designed to be as fluid

as the world in which we live and provides the student with a global perspective. Students are prepared to take both the AP exams in May.

Students who meet the CCC prerequisite of an 85% or above cumulative average are eligible to enroll and receive 3 college credits through the ACE program.

### **ACE Principles of Economics (B890)**

**Prerequisite: Global History I, II, US History (or alternate AP level courses)**

**CCC requires students have an 85% or above cumulative average to be eligible to enroll in this course**

**NCAA Approved**

**Credit: 1 unit Grade 12**



**CCC: 6 credit hours**

**ECON 2001 Principles of Economics- Macro**

**ECON 2002 Principles of Economics- Micro**

ACE Principles of Economics is a study of both the principles of Micro and Macro Economics. Macro Economics entails the study of supply and demand, national income accounting, the tax structure, the business cycle, unemployment and inflation, and fiscal and policy analysis. Micro Economics entails the study of price elasticity of demand and supply, utility theory, production cost analysis, profit maximization of the firm, market structure and antitrust, labor organizations, international trade and finance, and the economics of growth and development. ACE Principles of Economics satisfies the 12<sup>th</sup> grade Social Studies Requirement.

### **Criminal Justice (B043)**

**Prerequisite: NONE**

**NCAA Approved**

**Credit: 1 unit            Grade 9-12**

Criminal Justice includes the study of the legal system. Students will analyze the court systems, theories of crime, penal law, the trial, and the corrections system. Also included is the study of criminal substantive law. 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 exam.

## **American Civil War (B046)**

**Prerequisite: NONE**

**NCAA Approved**

**Credit: 1 unit    Grades: 9-12**

The principal goal for this class is to provide students with an understanding of the scope and consequences of the bloodiest war in our nation's history. Focus will be on the period between 1861-1865 but the course will also encompass the years leading up to the outbreak of war and in the months that followed its conclusion. Through a combination of lectures, readings, films and projects students will learn the causes of the war, participants on both sides, what led to a northern victory and the effects on society.

## **Critical Issues/World at War (B051)**

**Prerequisite: NONE**

**NCAA Approved**

**Credit: 1 unit    Grades 9-12**

Critical Issues / World at War is based on the college experience, one being a Politics in Film class and the other being a current events debate group. The class looks at themes and characters through the eyes of some of the world's finest filmmakers who have used conflict and/or war as the base for their storytelling. Students will watch films like *Gettysburg*, *Hacksaw Ridge*, and *Ender's Game*. Students will be required to submit reflection papers based on writing prompts for each film watched in class. Students will also discuss and debate current events, research issues prevalent in our society, and present their findings. This class helps develop writing and public speaking skills as well as prepare students for a future college experience.

## **Introduction to Psychology (B053)**

**Prerequisite: NONE**

**NCAA Approved**

**Credit: 1 unit    Grades 9-12**

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.

### **Geography: Political & Cultural (B040)**

**Prerequisite: NONE**

**NCAA Approved**

**Credit: 1 unit Grades: 9**

Geography is designed to help 9<sup>th</sup> grade students 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. Students are selected by teacher recommendation.

## Technology Department

A five-unit sequence in Technology can be an alternate to the World Language requirement. New York State no longer has specified course sequences that must be used to meet this requirement. Five units of any CTE course in any CTE area taught by a certified teacher in any of the CTE content areas (agriculture, business, computer science, FACS, health science, technology, and trade/technical education) may be used.

### **Transportation & Energy (L040)**

**Prerequisite: NONE**

**Credit: 1 unit    Grades 9-12**

Students will create projects based on engineering, and problem solving. Included will be energy conservation, small engine diagnosing and repair, and alternative and renewable energy. Students will also research and build transportation-based project(s).

### **Communication Systems (L041)**

**Prerequisite: NONE**

**Credit: 1 unit    Grades 9-12**

**Offered: Every Other Year (2027-2028)**

Students will study and produce computer-based projects such as music videos, movie posters, business cards, webpages, and computer animation. 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, Premiere, and the Microsoft Office package.

### **Production & Residential Structures (L042)**

**Prerequisite: NONE**

**Credit: 1 unit    Grades 9-12**

Students will learn about everything necessary to build a home. Foundations, framing, sheathing, roofing, electrical wiring, and plumbing will be covered. Students will wire common circuits, build a model, and construct projects off common framing and building practices. There is a possibility of a full-scale structure being constructed by the class.

## **Design & Drawing for Production (L043)**

**Prerequisite: NONE**

**Credit: 1 unit**

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

This course may count as one credit in Fine Art.

## **Broadcast & Video Production (L044)**

**Prerequisite: NONE**

**Credit: 1 unit**

**Offered: Every Other Year (2026-2027)**

Broadcast & Video Production is a course where students will learn how to create videos using professional video editing software. Student grades will be based on projects 50%, quizzes 30%, and homework 20%. Projects will include commercials, humor/skits, movie trailers, music videos and more.

## **Furniture & Cabinet Making (L011)**

**Prerequisite: NONE**

**Credit: ½ unit**

Furniture & Cabinet Making is an introductory woodworking class. Students will select a project, generate a set of plans, and build it. The class will cover material properties, safe use of machine tools, advanced assemble methods and finishing. Materials available are oak, cherry, maple, and walnut.

## **Computer Animation (L012)**

**Prerequisite: NONE**

**Credit: ½ unit**

This course introduces students to the art and technology of 2D animation using Adobe Animate and other professional tools. Students will develop traditional animation skills alongside contemporary digital techniques to create original video content. Emphasis is placed on industry-standard workflows, creative storytelling, and technical proficiency. Projects will range from simple animated objects to fully realized short films, providing students with hands-on experience in the principles of motion, timing, and visual design.

## **Robotics (L018)**

**Prerequisite: NONE**

**Credit: ½ credit**

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

## **ACE Graphics for Engineers (L091)**

**Prerequisite: Algebra 2R**

**Credit: 1 unit (HHS) Grades 10-12**

**Offered: Every other year (2026-2027)**



**CCC: 3 Credit Hours**

**ENGR 1030 Graphics for Engineers**

ACE Graphics for Engineers (3D CAD) is a course where students will use SolidWorks to create 3D objects. Students will learn how to layout their 3D object in orthographic projections and dimension them using current geometric dimensioning & tolerancing drafting standards. Types of drawings to include: auxiliary views, section views, assembly, detail drawings and design concepts.

## **ACE Engineering Orientation (L094)**

**Prerequisite: Algebra 2R**

**Credit: 1 unit (HHS) Grades 10-12**

**Offered: Every other year (2027-2028)**



**CCC: 2 Credit Hours**

**ENGR 1010 Engineering Orientation**

ACE Engineering Orientation is a course where students will study and learn about different engineering career opportunities. The course involves statistics, design solutions, and problem solving. Many projects are real life projects where students will problem solve, design, and produce a solution. The focus will be on the big five engineering fields: mechanical, electrical, industrial, civil, and architectural.

## World Languages Department

All students need one unit of a world language in order to graduate, unless the student is exempt from the requirement through the Committee on Special Education.

Students who are seeking an Advanced Designation diploma will need to take three units of world language and pass the Checkpoint B exam at the end of the third year or complete a five unit sequence in The Arts or Career & Technical Education.

### **French I (E451)**

**Prerequisite: NONE**

**NCAA Approved**

**Credit: 1 unit    Grades 9-12**

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

### **French II (E551)**

**Prerequisite: French 1 or successful completion of three years in another language**

**NCAA Approved**

**Credit: 1 unit    Grades 9-12**

French II is a continuation of Checkpoint A, beginning French. Students further develop their communication skills in listening, speaking, reading, and writing in order to provide and obtain information and to socialize using the French language. Some of the topics covered are family, meals, shopping, and health. Students are also presented with cultural patterns and traditions of Francophone 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.

### **French III (E651)**

**Prerequisite: French II**

**NCAA Approved**

**Credit: 1 unit Grades: 9-12**

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

### **ACE French IV (E791)**

**Prerequisite: French III**

**NCAA Approved**

**Credit: 1 unit Grades: 10-12**



**CCC: 4 Credit Hours**

**FREN 2010 Intermediate French**

ACE French IV is an intermediate French course that is designed for students who wish to continue language study to develop a greater facility in reading, writing, speaking, and understanding the language through a systematic review of its structures. This is a dual-credit course where students earn high school and college credit through Corning Community College. 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, class discussions and conversations. The class is conducted primarily in the target language and students are strongly encouraged to speak in the target language. To this end, there are weekly discussion days to help students increase their spoken proficiency in the language. Students will be evaluated through class participation, lab exercises, interviews, written quizzes, tests, projects, and a final exam.

## **ACE French V (E891)**

**Prerequisite: French IV**

**NCAA Approved**

**Credit: 1 unit**

**Grades: 10-12**



**CCC: 4 Credit Hours**

**FREN 2020 Composition & Conversation**

ACE French V is a course designed as an advanced French Language course, as well as a conversation and composition college credit course with CCC. This class covers the equivalent of a fourth-semester 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 using authentic audio; 2) the acquisition of vocabulary and a grasp of structures to allow accurate reading of literary pieces and newspaper articles; 3) the ability to compose expository passages; and 4) the ability to express ideas orally with accuracy and fluency. The final exam is a project decided by the student and the teacher. This course is conducted entirely in French.

## **Spanish I (E450)**

**Prerequisite: NONE or successful completion of three years in another language**

**NCAA Approved**

**Credit: 1 unit Grades: 9-12**

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. Students 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, written quizzes, and exams. Their final exam is a district final that includes speaking, listening, reading, and writing.

## **Spanish II (E550)**

**Prerequisite: Spanish I**

**NCAA Approved**

**Credit: 1 unit Grades 9-12**

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. Students 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.

### **Spanish III (E650)**

**Prerequisite: Spanish II**

**NCAA Approved**

**Credit: 1 unit Grades: 9-12**

Spanish III is a course designed to prepare students to take the Comprehensive Regents Equivalency 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 daily to prepare them for the two interviews that are part of the Regents Equivalency Exam. Students are required to initiate and sustain basic conversation with their peers and teachers. Students are required to read and comprehend materials written for native speakers such as magazine and newspaper articles and advertisements. Students are evaluated by oral interviews as well as written quizzes, tests, and the equivalency exam.

### **ACE Spanish IV (E790)**

**Prerequisite: Spanish III**

**NCAA Approved**

**Credit: 1 unit**

**Grades: 10-12**



**CCC: 4 Credit Hours**

**SPAN 2010 Intermediate Spanish**

ACE Spanish IV is an intermediate Spanish course that is designed for students who wish to continue language study to develop a greater facility in reading, writing, speaking, and understanding the language through a systematic review of its structures. This is a dual-credit course where students earn high school and college credit through Corning Community College. 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, 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 this course which makes this a 4-credit course per CCC. Students will do listening and speaking activities on their devices at least once per week. Students will be evaluated through class participation, homework, online exercises, interviews, written quizzes, tests, and a final exam.

## **ACE Spanish V (E880)**

**Prerequisite: Spanish IV**

**NCAA Approved**

**Credit: 1 unit      Grades: 10-12**



**CCC: 4 Credit Hours**

**SPAN 2020 Composition and Conversation**

ACE Spanish is a course designed as an advanced Spanish Language course, as well as a conversation and composition college credit course with CCC. This class covers the equivalent of a third-year college course in advanced Spanish writing and conversation. It encompasses aural/oral skills, reading comprehension, grammar, and composition. Students taking this course can expect the use of Spanish for active communication with the following main objectives and more: 1) the ability to comprehend formal and informal Spanish spoken by native speakers using authentic audio; 2) the acquisition of vocabulary and a grasp of structures to allow accurate reading of literary pieces and newspaper articles; 3) the ability to compose expository passages; and 4) the ability to express ideas orally with accuracy and fluency. There is a lab component to this course which makes this a 4-credit course per CCC. Students will do listening and speaking activities on their devices at least once per week. Students will be evaluated through class participation, homework, online exercises, interviews, written quizzes, and tests. The final exam is a project and presentation decided by the student and the teacher. This course is conducted mostly in Spanish.

## **ACE Spanish VI (E892)**

**Prerequisite: Spanish V**

**NCAA Approved**

**Credit: 1 unit      Grades: 10 – 12**



**CCC: 3 Credit Hours**

**SPAN 2310 Brief Intro to Literature**

ACE Spanish VI 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 completely in Spanish. Students are evaluated through class participation, oral presentations, interviews, written quizzes, and tests, as well as a presentation that serves as the final exam. Students taking this course are also able to take the Advanced Placement (AP) Spanish exams in “Language and Culture” and/or “Literature and Culture.”

