# The Scheduling Process

Selecting your courses in high school is not a task to take lightly. Over the past ten years, there have been tremendous changes in the workplace. It has reached the point that a high school diploma is no longer a guarantee of employment upon graduation. All students will be faced with the need for further education or training once they have graduated from high school.

**It is imperative that you give serious thought to what you plan to do when you graduate from high school as soon as you enter high school.** This should serve as a starting point for your high school course planning. Each year as you progress through high school, you will have the opportunity to update your career plan. Hopefully, each year you will narrow your career options so that course selections will allow more and more career specific preparation. High school students have the ability to utilize the career information in the Guidance Office, the Media Center, or on the Internet.

The scheduling process at Northwestern High School starts in January. Starting with the Junior Class, we will have an individual class meeting to review the Course Selection Guide, any new information, and the crucial dates for selecting your classes for the following year. Once this class meeting is over, the school counselors will meet with each student to review the students standing toward graduation, his/her Individual Career Plan, and his/her course selections for next year. We will repeat this process with each class. If it becomes necessary not to offer a class because of low enrollment or due to a conflict in the student's schedule, a school counselor will try to contact the student so he/she can choose another course.

**Students, choose your courses wisely!** Once we have completed the scheduling process, **it will be very difficult to make changes in your schedule.** We use the enrollment numbers to hire staff, so it is not easy to select another course once the schedule is finalized. After school has started, schedules are set and will not be changed. Only rare exceptions will be made to this policy.

# General Information

## Class Rank

The Board of Education has authorized the use of a class ranking system for students in grades 9-12 based on their final grades for all courses included on their high school transcript. The system to be used is detailed below.

A. Class rank and grade point average shall be calculated on the basis of all courses on the high school transcript for which credit has been earned or attempted. This calculation includes grades for courses taken for high school credit at the middle school level, e.g. algebra.

B. Courses dropped shall be included in the computation of a student's grade point average when they are dropped with a withdraw failure (W/F).

C. Quality points are numerical values assigned to grades for the purpose of determining a numerical average. Plusses or minuses associated with letter grades are not assigned any lesser or greater value than the letter grade to which they are attached, e.g. an A+ or an A- is equal to 4.0.

D. Quality points shall be assigned to grades earned in all courses for which credit is received, as follows:

A= 4.0
B= 3.0
C= 2.0
D= 1.0
F= 0.0

*Advanced Placement (AP) courses shall be weighted by applying an additional 1.0 quality point value to the final grade. (An exception is made in the case of an F which is still assigned a quality point value of 0.0) A final grade of A+, A, or A- in an AP course shall receive 5.0 quality points for purposes of calculating grade point averages. CCP courses in the same content areas as AP courses will also be weighted on a 5.0 scale. All other CCP courses will be on a 4.0 scale.*

E. The rank of students will be determined by grade point average. A student's grade point average shall be determined by dividing the total number of quality points earned by the number of courses included on the transcript. The grade point average shall be reported to three decimal places (thousandths); Students with the same grade point average shall be numbered identically in rank. (For example, if four students had the highest possible grade point average, all four would be ranked first; the student(s) with the next highest grade point average would be ranked fifth and so forth).

F. A student's grade point average and rank in class shall be on all transcripts and shall be subject to the Board's policy on release of student records.

G. The high school shall provide an estimate of class rank only when essential, such as for certain scholarship applications.

## College Days/Job Shadowing Procedures

A college visit is critical when deciding which school to attend. Seniors and juniors may be excused from school to visit a campus during the school day. If students are to be excused for college visits, they will need to bring a note to the Guidance Office from their parents at least one day prior stating that the student is making a college visit. The student will receive a form that the college will complete. (This form needs to be returned to the attendance office for the visit not to count as an absence.)

Job shadowing is a process that can help students make decisions about career opportunities that might be part of their future. Students will contact an individual or an agency and make arrangements to job shadow. The Guidance Office needs a note from the parents at least one day prior including the date and person who is being shadowed. The student will receive a form that needs to be signed by the person being shadowed. (This form needs to be returned to the attendance office for the visit not to count as an absence.)

Juniors and Seniors may take up to 4 days for college visits or job shadowing. Sophomores and Freshmen may take up to 2 days for job shadowing. (Administration may approve more days if deemed necessary.)

## Course Academic Levels

We encourage all students to challenge themselves to develop learning as a life-long skill. To do so will allow them to make the adaptations our changing world will require of them. Certain classes have prerequisites and/or teacher recommendations required. You will need to check each course synopsis for these requirements.

Students may elect the advanced level courses. We suggest that students take these classes only upon the recommendation of their teachers. Advanced courses deal with concepts and work that is more sophisticated than those taught in academic classes. Frequently, these classes require additional preparation time. Advanced classes emphasize written communication and/or higher order math skills.

**Advanced Placement (AP) classes** are classes taught according to the National Advanced Placement Program Curriculum. They are more challenging and require more effort than advanced courses. Students have the opportunity to take the Advanced Placement Test in his or her field, which may, depending on the student's score and the policies of the college he or she chooses, earn college credit and or placement. The cost for each A.P. exam is *at least $94.00* and there is no guarantee that a student will earn college credit. To enroll in an AP class, a student must have the prerequisites and earn the required grade (see class descriptions).

## Credit Flexibility Opportunities

Information about these opportunities for students to customize aspects of their learning is available in the guidance office and district board policy.

Students are able to earn high school credit in three ways, or in a combination of these ways:

**1. Completing coursework** -NWHS See course selection guide available in the guidance office.

**2. Flexing Out of an existing course:**

This option exists for students who believe they are ready to demonstrate all of the competencies required in a particular Northwestern High School course. To flex out of an existing course means to test out and demonstrate mastery of content. The high school principal has the requirements and expectations for each course offered at NWHS. The Northwestern High School principal, along with the teacher of record (a highly qualified subject area teacher), will evaluate student work and determine mastery. Evidences of learning in a flex out course may include a combination of: paper/pencil tests and exams, performances, projects, presentations, essays, research papers, and portfolio.

Students must complete and submit to the principal the NWHS Flexible Plan Application for the course requested. A student must apply by March 31st of the previous school year. Students who do not complete the requirements may request an extension in writing from the principal or his/her designee or receive a failing grade. The request will be reviewed by the high school building team, which will then notify the student, parent, and school counselors of the decision regarding the request within 2 weeks. If the deadline is missed, the principal can give permission for a flex credit.

**3. Pursuing an educational option**

A. Creating a Flex Plan for a new class.

This option is for students who wish to develop a plan to study a topic of interest that is not offered at Northwestern Senior High School. **An approved Credit Flexibility Plan (CFP) is required.** Prior approval for the proposal is required; there will be no awarding of retroactive credit. In their proposal, students must develop and present for approval the goals/objectives of their proposed course, methods of instruction, timeline segments of learning, and describe assessment measurements. Students may request a CFP Application from the principal. *NWLSD is not responsible for developing a Credit Flexibility Plan (CFP) for a student or for the cost incurred by a student's participation in a CFP.*

Other Northwestern High School educational options include:

B. College Credit Plus (Senate Bill 311) See NWHS Guidance Office for details.

C. Educational Option, Accelerated Study (NWLSD Bylaw and Administrative Guidelines 2370)

D. Summer School (NWLSD Bylaw and administrative guidelines 2440)

E. Work study programs (See NWHS Guidance Office for details.)

F. On-line course work.

G. Home Instruction supervised by a district approved tutor.

## Dropping a Class

Students are permitted to drop a class only upon the recommendation of the teacher and with the approval of the guidance counselor and/or principal. Dropping a class after the 5th week of the course will result in taking an "F" for the year and a zero will be averaged into the cumulative grade point average. (Extenuating circumstances may be considered.)

## Early Graduation

Any student who completes the requirements for graduation in less than the normal four years and elects to take no more courses will be eligible to participate in graduation exercises only during his/her last year of attendance. Students must also have parent permission and submit a written request to the high school principal by December 1st of their junior year.

## Grade Level Placement

Grade placement at Northwestern High School is determined by the student's success in the previous school year.

9th grade - completion of the 8th grade
10th grade - completion of 4.5 credits
11th grade - completion of 10 credits
12th grade - completion of 15 credits

## Grading Scale

Northwestern High School uses the following grading scale:

| | | | | |
|---|---|---|---|---|
| A+ | 97-100 | | C+ | 77-79 |
| A | 93-96 | | C | 73-76 |
| A- | 90-92 | | C- | 70-72 |
| B+ | 87-89 | | D+ | 67-69 |
| B | 83-86 | | D | 63-66 |
| B- | 80-82 | | D- | 60-62 |

F (failing) 59 or below

## Graduation Awards

Ohio | Department of Education

# Ohio High School Honors Diploma

| Criterion | Ohio Diploma | Academic Honors Diploma | International Baccalaureate Honors Diploma | Career Tech Honors Diploma | STEM Honors Diploma | Arts Honors Diploma (Includes dance, drama/theatre, music, and visual art) | Social Science & Civic Engagement Honors Diploma |
|---|---|---|---|---|---|---|---|
| Math | 4 units, must include one unit of algebra II or equivalent | 4 units, Algebra I, Geometry, Algebra II (or equivalent), and one other higher level course or 4 course sequence that contains equivalent or higher content | 4 units, Algebra I, Geometry, Algebra II (or equivalent), and one other higher level course or 4 course sequence that contains equivalent or higher content | 4 units, Algebra I, Geometry, Algebra II (or equivalent), and one other higher level course or 4 course sequence that contains equivalent or higher content | 5 units, Algebra I, Geometry, Algebra II (or equivalent), and one other higher level course or 4 course sequence that contains equivalent or higher content[4] | 4 units, Algebra I, Geometry, Algebra II (or equivalent), and one other higher level course or 4 course sequence that contains equivalent or higher content | 4 units, Algebra I, Geometry, Algebra II (or equivalent), and one other higher level course or 4 course sequence that contains equivalent or higher content |
| Science | 3 units | 4 units, including two units of advanced science[2] | 4 units, biology, chemistry, and at least one additional advance science[2] | 4 units, including two units of advanced science[2] | 5 units, including two units of advanced science[2] | 3 units, including one unit of advanced science[2] | 3 units, including one unit of advanced science[2] |
| Social Studies | 3 units | 4 units | 4 units | 4 units | 3 units | 3 units | 5 units |
| World Languages | N/A | 3 units of one world language, or no less than 2 units of each of two world languages studied | 4 units minimum, with at least 2 units in each language studied | 2 units of one world language studied | 3 units of one world language, or no less than 2 units of each of two world languages studied | 3 units of one world language, or no less than 2 units of each of two world languages studied | 3 units of one world language, or no less than 2 units of each of two world languages studied |
| Fine Arts | 2 Semesters | 1 unit | 1 unit | N/A | 1 unit | 4 units | 1 unit |
| Electives | 5 units | N/A | N/A | 4 units of Career-Technical minimum[3] | 2 units with a focus in STEM courses | 2 units with a focus in fine arts course work | 3 units with a focus in social sciences and/or civics |
| GPA | N/A | 3.5 on a 4.0 scale | 3.5 on a 4.0 scale | 3.5 on a 4.0 scale | 3.5 on a 4.0 scale | 3.5 on a 4.0 scale | 3.5 on a 4.0 scale |
| ACT/SAT/ WorkKeys[1] | N/A | 27 ACT/1280 SAT[8] | 27 ACT/1280 SAT[8] | 27 ACT/1280 SAT[8]/WorkKeys (6 Reading for Information & 6 Applied Mathematics)[7] | 27 ACT/1280 SAT[8] | 27 ACT/1280 SAT[8] | 27 ACT/1280 SAT[8] |
| Field Experience | N/A | N/A | Complete a field experience and document the experience in a portfolio specific to the student's area of focus[5] | Complete a field experience and document the experience in a portfolio specific to the student's area of focus[5] | Complete a field experience and document the experience in a portfolio specific to the student's area of focus[5] | Complete a field experience and document the experience in a portfolio specific to the student's area of focus[5] | Complete a field experience and document the experience in a portfolio specific to the student's area of focus[5] |
| Portfolio | N/A | N/A | Develop a comprehensive portfolio of work based on the student's field experience or a topic related to the student's area of focus that is reviewed and validated by external experts[6] | Develop a comprehensive portfolio of work based on the student's field experience or a topic related to the student's area of focus that is reviewed and validated by external experts[6] | Develop a comprehensive portfolio of work based on the student's field experience or a topic that is related to the student's area of focus that is reviewed and validated by external experts[6] | Develop a comprehensive portfolio of work based on the student's field experience or a topic that is related to the student's area of focus that is reviewed and validated by external experts[6] | Develop a comprehensive portfolio of work based on the student's field experience or a topic that is related to the student's area of focus that is reviewed and validated by external experts[6] |
| Additional Assessments | N/A | N/A | N/A | Earn an industry-recognized credential or achieve proficiency benchmark for appropriate Ohio Career-Technical Competency Assessment or equivalent | N/A | N/A | N/A |

Ohio | Department of Education

# Ohio High School Honors Diploma

**NOTES:**

For the Academic, International Baccalaureate, and Career Tech Honors Diplomas, students who entered the ninth grade between July 1, 2013 and June 30, 2017 may choose to pursue the diploma by meeting the requirements of these criteria or the previous criteria. Students entering the ninth grade on or after July 1, 2017 must meet these criteria.

Completion of any advanced standing program, which includes Advanced Placement, International Baccalaureate, College Credit Plus, and may include Credit Flexibility, can be counted toward the unit requirements of an Honors Diploma.

Students must meet all but one of the criteria to qualify for an Honors Diploma, and any one of the criteria may be the one that is not met.

Diploma with Honors requirements pre-suppose the completion of all high school diploma requirements in the Ohio Revised Code including:

½ unit physical education (unless exempted), ½ unit health, ½ unit in American history, ½ unit in government, and 4 units in English. The class of 2021 and beyond will need to have ½ unit in world history and civilizations as well.

[1] Writing sections of either standardized test should not be included in the calculation of this score. The Locating Information test is not included in the calculation of the WorkKeys score.

[2] Advanced science refers to courses that are inquiry-based with laboratory experiences and align with the 11/12th grade standards (or above) or with an AP science course, or with an entry-level college course (clearly preparing students for a college freshman-level science class, such as anatomy, botany, or astronomy).

[3] Program must lead to an industry recognized credential, apprenticeship, or be part of an articulated career pathway which can lead to post-secondary credit.

[4] The fifth mathematics and science credit for the STEM honors diploma may be fulfilled with a single course.

[5] Field Experience refers to experiential learning in either an internship or apprenticeship. Students will document their experiences by describing their understanding in a portfolio.

[6] The student portfolio is a collection of experiential learning and competencies based on the student's field experiences. Students will engage with professionals or scholars in the field while developing their own portfolio or ePortfolio of original work that documents their technical, critical and creative skills representative of their honors focus; students' work must be reviewed and evaluated by scholars or professionals within the field/area of study in which the students' work is focused, and the scholars or professionals must be external to the district staff; students will give a presentation to showcase the work and provide an analysis of it to the school and local community. If the student does not complete a field experience, the portfolio can be based on a collection of work related to the student's honors diploma area of focus.

[7] Students must score a minimum of a 6 on the Applied Mathematics WorkKeys Assessment and a minimum of 6 on the Reading for Information WorkKeys Assessment in order to meet the WorkKeys score requirement. The WorkKeys option applies only to the Career Tech Honors Diploma.

[8] These scores are based on the 2016 ACT and SAT assessments. Concordance tables outlining equivalent scores for past and future tests that differ from the 2016 versions will be published on the ODE website. Tables to concord SAT assessments taken prior to March 2016 can be found here. Further information on test concordance can be found here.

## Valedictorian and Salutatorian Selection Process Rubric

1. ***Rigor of curriculum as defined below:***

| | |
|---|---|
| Foreign Language III | 1 point |
| Foreign Language IV | 1 point |
| (Students who take Language I&II and Language I&II of two *different* languages will be allotted 1 point.) | |
| Adv. English 9 | 1 point |
| Adv. English 10 | 1 point |
| CCP/AP Language & Composition | 1 point |
| CCP/AP Literature and Composition | 1 point |
| Pre-Calculus | 1 point |
| CCP/AP Calculus or CCP/AP Stats | 1 point |
| CCP/AP Biology | 1 point |
| CCP/AP Chemistry | 1 point |
| Physics | 1 point |
| Adv. American History | 1 point |
| CCP/Adv. Government | 1 point |
| CCP/Adv. World History | 1 point |
| All AP or CCP classes on the rubric completed at NWHS | 1 point |
| Possible Total: | 15 points |

2. **Using each student's un-weighted GPA, the top 7% of the senior class will be determined.**

3. **The top 7% of the class will be narrowed to the top 5 places (or all students with a 4.0 GPA).**

*The student with the most points and highest GPA is the Valedictorian. If there is a tie, each is awarded the title of Valedictorian. The student with the second highest points and highest GPA is Salutatorian. If there is a tie, each is awarded the title of Salutatorian. CCP classes will each be allotted 1 point if* ***substituted*** *for one of the above courses. The course taken must be of a similar nature to the course for which it is substituted and be* ***pre-approved by the high school principal****. Not all College Credit Plus courses will count toward a point on the rubric.*

## National Honor Society

The Faculty Council of the NW chapter selects students who demonstrate outstanding performance in all four criteria of scholarship, leadership, service, character. The advisors of the National Honor Society at Northwestern High School first identify all students who meet the scholarship requirement. Those students are asked to prepare and submit a Student Activity Information Form. Faculty are also asked to contribute information about each of the students who have met the scholarship requirement. The Faculty Council then uses the Student Activity Information Form, the information from the teachers, and their own experiences to evaluate students. An equal emphasis is placed on all three of the remaining criteria of leadership, service and character. After careful consideration and much discussion, the Faculty Council votes as to if each student will be given the honor of joining the National Honor Society. *Parents will be notified by the end of October if their child will be inducted at the National Honor Society Induction Ceremony.*

# Graduation Requirements
# 2018 and Beyond

**The graduation requirements for the classes of 2018 and beyond include curriculum and three options to show readiness for next steps in college and careers.**

## Credit Requirements

| | |
|---|---|
| English language arts | 4 credits |
| Health | ½ credit |
| Mathematics | 4 credits (including Algebra II or its equivalent) |
| *Physical Education | ½ credit (two semesters) |
| Science | 3 credits (1 credit biological, 1 credit physical required) |
| Social Studies | 3 credits (American History, Gov't and World Hist) |
| Fine Arts | 1 credit or (2) ½ credits |
| Electives | 4 credits (must choose from foreign language, fine arts, business, career-technical education, family and consumer sciences, technology, agricultural education or English Language Arts, Mathematics, Science or Social Studies courses that are not required.) |
| Electives | 1 ½ credits of any subject area |

*Students can have the ½ credit of PE waived if they use the PE waiver. Students who waive PE still need 21.5 credits to graduate.

**Total Required Credits = 21.5**

## AND MEET ONE OF THE FOLLOWING THREE:

**1. <u>Ohio's State Tests:</u>**

Students earn a cumulative passing score of 18 points, using seven end-of-course state tests. To ensure students are well rounded, they must earn a minimum of four points in math, four points in English and six points across science and social studies.

End-of-course exams are:
- Algebra I and Geometry
- Biology
- American history and American government
- English I and English II

Students studying courses in American history or American government may substitute grades from College Credit Plus courses in these subjects for end-of-course state exams.

2. **Industry credential and workforce readiness:**

Students earn 12 points through a State Board of Education-approved, industry-recognized credential or group of credentials in a single career field and achieve a workforce readiness score on the WorkKeys assessment. The state of Ohio will pay one time for students to take the WorkKeys assessment. At Northwestern, students can earn industry credentials in Information Technology.

3. **College admission test:**

Students earn "remediation-free" scores on a nationally recognized college admission exam. The ACT scores required by the state are: 18 in English, 21 in Reading, 22 in Math. The state of Ohio will pay one time for all 11th grade students in the classes of 2018 and beyond to take the exam.

## Pupil Scheduling Load

Students are required to register for seven classes per semester. Students' needs and abilities should be considered in determining course load. There are some programs such as CBI, Ag Co-op and CCP that do not require a student to schedule seven classes.

## Semester Exams

The high school provides students with an opportunity to take comprehensive semester exams during and at the end of each semester. All courses in high school require students to take semester exams that count as 1/7 of the semester average. Under special circumstances provided through the Renaissance Program, some students are exempted from taking semester exams with prior office approval only.

## Special Education

Selection of students for all individual education programs is based on a combination of factors, including comprehensive testing and approval by parents and counselors. Students who are identified as having a learning or cognitive disability may be served in a resource room, an inclusion classroom, study skills, or in a classroom that best meets the student's needs.

## School Fees

High School students are assessed board approved school fees at the beginning of each school year. A statement is mailed home to the parents of each student. School fees are collected on consumable items only. Payment plans may be set up with the High School office as necessary. **Listed below are the school fees for the 2018-2019 school year. These fees are listed only to provide students and parents with an idea of what school fees will be for the 2019-2020 school year. Adjustments will be made according to course availability, current pricing of supplies, and the items needed for the specific course.**

| | |
|---|---|
| **ART** | |
| All Art Courses: | 18.00 |
| **AG EDUCATION** | |
| Animal and Plant Science | 11.00 |
| Business Mgt for AG | 11.00 |
| Intro to Ag Food Nat Res | 11.00 |
| Ag Business II Co-op | 11.00 |
| Adv. Ag. Ed, Ag. Projects | 5.00 |
| FFA DUES (all Ag Classes) | 12.50 |
| **BUSINESS** | |
| Accounting, | 35.00 |
| Computer Apps, Adv. Computer Apps, | 10.00 |
| Web Page Design | 10.00 |
| **MUSIC** | |
| Band (per course) | 10.00 |
| Concert Choir, Symphonic Choir | 20.00 |
| Show Choir | 20.00 |
| **VIDEO CLASS** | 20.00 |
| **SCIENCE** | |
| Science I, II, III | 10.00 |
| Physical Science | 15.00 |
| Biology | 10.00 |
| Chemistry | 20.00 |
| Physics | 15.00 |
| AP Biology | 25.00 |
| AP Chemistry | 25.00 |
| STEM | 10.00 |
| Robotics | 10.00 |
| **MISCELLANEOUS** | |
| ProgressBook (ALL STUDENTS) | 3.00 |
| AGENDA (ALL STUDENTS) | 7.00 |
| CLASS FEES (ALL STUDENTS) | 8.00 |
| PRINTING FEE (ALL STUDENTS) | 4.00 |
| 9th & 10th GRADE ENGLISH FEE | 10.00 |
| **FOREIGN LANGUAGE** | |
| SPANISH I & II | 19.00 |

## SPRINGFIELD-CLARK CAREER TECHNOLOGY CENTER
***Your Path to Success!***

The primary goal of the Springfield-Clark CTC is to assist students in obtaining skills that will allow them to enter the job market or to pursue further training in colleges, universities or technical schools. The CTC offers a variety of programs that provide career-related training.

### CTC Schedule Options
The CTC offers both full-day and half-day programs. Half-day programs allow students to attend the career center for half of the school day and complete academic classes at their associate school. Some associate high schools provide transportation to and from the career center for ½ day students.

### Apprenticeship Option
Apprenticeships are available in virtually every career-related program offered at the career center. Apprentices are paid wages while participating employers teach them real-life work skills on the job site. Students attend academic and related classes at the career center and participate in co-op, work-site learning in coordination with the apprenticeship.

### Academics
In addition to learning career-related skills students may also take English, Government, History, Math and Science courses. We offer both general and advanced academics like CP English, CP, Anatomy and Physiology, Chemistry, Algebra II, Physics and Calculus. Academic courses teach concepts that are directly related to a student's technical program and fulfill requirements for graduation and college admission.

### Credits
Students at the career center may earn up to fourteen credits toward graduation depending on the program in which they choose to enroll.

### College Credit at CTC
CTC has articulation agreements with Clark State Community College, Northwestern College, Columbus State Community College, The Nashville Auto-Diesel College, and Sinclair Community College to just name a few. These articulation agreements allow students to earn college credit while attending the career center. Post-secondary options are available to students who qualify.

### Fees
Students of local high schools may attend the career center tuition-free. However, depending on the program, students may be required to pay for tools, uniforms and a school fee. Scholarships, fee assistance and payment plans are available to student who qualifies financially.

### Transportation
The Associate high school will bus students to and from the CTC. Students may choose to provide their own transportation.

### Extra-curricular Activities at CTC
The CTC daily schedule allows students to participate in extra-curricular activities like sports, jazz band and cheerleading at their associate high school. In addition to participation in various activities available at the associate high school, CTC students may get involved in the following national student organizations, which help develop leadership skills:

**BPA** – Business Professionals of America
**FCCLA** – Family, Community & Career Leaders of America
**H2O Club** – Volunteer and Community Service Club
**NHS** – National Honor Society
**SkillsUSA** – The largest Career Technical Student Organization in the USA

Many of the clubs offer leadership opportunities and skill competitions that challenge students to compete for awards by mastering skills in their career technical program.

## Graduation

Upon successful completions of the CTC program and academic courses, CTC students will graduate and receive a high school diploma from their associate high school. CTC students will also attend the Convocation Ceremony that is held on the last day of school. Students who successfully complete their career technical program receive a certificate of completion and a Career Passport

# Springfield-Clark CTC
# Career Fields and Programs

**Ag & Environmental Systems**
Forestry and Park Management
Veterinary Science

**Arts & Communication**
Computer Graphic Arts

**Career Exploration Programs**
Career Based Intervention
Job Training
Project SEARCH

**Construction Technologies**
Carpentry
Electrical Trades
Heating & Air Technology

**Education and Training**
Early Childhood Education & Care

**Engineering and Science Technologies**
Engineering and Architectural Design
Engineering and CNC

**Health Science**
Dental Assisting
Health Occupations

- Emergency Medical Technician
- Medical Assisting
- Nurse Assisting

**Hospitality and Tourism**
Culinary Arts
Hospitality & Tourism

**Human Services**
Cosmetology

**Information Technology**
Computer Programing & Game Design
Cyber Security & Computer Networking
Digital Media Design

**Manufacturing Technologies**
Welding & Fabrication

**Transportation Systems**
Auto Body Collision Repair
Auto Services
Auto Technology

## Withdrawal-Transfer Policy

If students who have been accepted at the CTC change their mind prior to June 1st the following steps should be completed in order to re-enroll at their local high school:

1. Notify the Associate Schools Coordinator at 325-7368 ext. 113 that they will **not** be attending the CTC.
2. Call the associate high school and schedule an appointment with their counselor to prepare a class schedule.

Students who do not withdraw from the CTC by June 1st may transfer back to their associate high school under the following guidelines:

1. Students are required to attend the CTC for a one-week trial period (five school days).
2. The final decision to return to the associate high school must be made before the tenth day of school at the CTC.
3. ***After the tenth day of school students are obligated to complete the year at the CTC***

Revised 1/17/18

# College Admission Recommendations

**Four-Year College**
The Ohio Board of Regents has established the following core of subjects for admission into state supported universities. This core should be the minimum college preparatory program.

| | |
|---|---|
| English | 4 credits |
| Social Studies | 4 credits |
| Math | 4 credits (Algebra I&II, Geometry) |
| Science | 4 credits (including CP Biology, CP Chemistry and/or Physics) |
| Foreign Language | 2 credits of the same language |
| Fine Arts | 1 credit |

**Two-Year College**
The requirements at the various two-year colleges vary depending upon the program that a student chooses.

**College Admission Testing**
ACT scores and SAT scores are used to determine a student's college readiness. Colleges use them in their admissions process. The following is a recommended schedule.

**11th Grade**
College bound juniors should take the PSAT/NMSQT in the fall and the ACT and/or SAT in the spring.

**12th Grade**
College bound seniors may want to retake the ACT or the SAT in the fall.

# Athletic / Extracurricular Eligibility

**The following requirements apply to all students wanting to participate in any interscholastic athletic team or in any extracurricular activity in order to be eligible.**

1. Must have received passing grades in a minimum of five, one-credit courses, or the equivalent, which count toward graduation in the immediately preceding grading period.

2. Must maintain a minimum grade point average of 1.67 in the immediately preceding grading period.

# NCAA ELIGIBILITY

**Initial Eligibility Basics – Know the Requirements**
College-bound student-athletes who want to compete in NCAA sports at a Division I or II school need to meet certain division-wide academic and amateurism standards. Students who plan to attend a Division III school need to meet the admission standards of the school they plan to attend.

**Division I Initial Eligibility**
For students to be eligible to compete in NCAA sports during their first year at a Division I school, they must meet standards for their core courses, core-course grade-point average (GPA) and test scores.

Students must graduate high school and meet ALL the following requirements:

1. Complete 16 core courses:
- Four years of English
- Three years of math (Algebra 1 or higher)
- Two years of natural/physical science (including one year of lab science if your high school offers it)
- One additional year of English, math or natural/physical science
- Two years of social science
- Four additional years of English, math, natural/physical science, social science, foreign language, comparative religion or philosophy

2. Complete 10 core courses, including seven in English, math or natural/physical science, before the start of their seventh semester. Once students begin their seventh semester, they may not repeat or replace any of those 10 courses to improve their core-course GPA.

3. Earn at least a 2.3 GPA in their core courses.

4. Earn an SAT combined score or ACT sum score matching their core-course GPA on the Division I sliding scale, which balances test scores and core-course GPA. If students have a low test score, they need a higher core-course GPA to be eligible. If they have a low core-course GPA, they need a higher test score to be eligible.

## Division II Initial Eligibility

For students to be eligible to compete in NCAA sports during their first year at a Division II school, they must meet academic requirements for their core courses, core-course grade-point average (GPA) and test scores. The requirements are changing for students who enroll full time for the first time at a Division II school after Aug. 1, 2018.

Students planning to attend a Division II school can complete a minimum of 16 NCAA core courses after starting grade nine and before they enroll full time in college. There is not a limit to the number of additional courses that students can take if they are planning to enroll in an NCAA Division II school.

**Students Who Enroll AFTER Aug. 1, 2018**

Students must graduate high school and meet ALL the following requirements:

1. Complete 16 core courses:
    - Three years of English.
    - Two years of math (Algebra 1 or higher).
    - Two years of natural or physical science (including one year of lab science if your high school offers it).
    - Three additional years of English, math or natural or physical science
    - Two years of social science
    - Four additional years of English, math, natural or physical science, social science, foreign language, comparative religion or philosophy

2. Earn at least a 2.2 GPA in their core courses.

3. Earn an SAT combined score or ACT sum score matching their core-course GPA on the Division II competition sliding scale, which balances test scores and core-course GPA. If students have a low test score, they need a higher core-course GPA to be eligible. If they have a low core-course GPA, they need a higher test score to be eligible. Students who enroll full time at a Division II school after Aug. 1, 2018, and have not met all the Division II academic requirements may not compete in their first year at college. However, if they meet the requirements to be a partial qualifier, they may practice during their first term in college and receive an athletics scholarship for the entire year. To be a partial qualifier, they must graduate high school and meet ALL the following academic requirements:

1. Complete 16 core courses:
    - Three years of English.
    - Two years of math (Algebra 1 or higher).
    - Two years of natural or physical science (including one year of lab science if your high school offers it).
    - Three additional years of English, math or natural or physical science
    - Two years of social science
    - Four additional years of English, math, natural or physical science, social science, foreign language, comparative religion or philosophy

2. Earn at least a 2.0 GPA in core courses.

3. Earn an SAT combined score or ACT sum score matching their core-course GPA on the Division II partial qualifier sliding scale.

**See: www.ncaaeligibilitycenter.org for additional details.**

# 9th – 12th Grade Renaissance Program

Northwestern High School participates in the national student incentive Renaissance program. Renaissance students are determined by excellence in academics, attendance, and behavior. Cards are issued at the beginning of each semester based on achievements from the previous semester. Throughout the course of each semester, Renaissance students are invited to special events and receive privileges, awards, and prizes. The criteria for earning a Renaissance card are as follows:

Red Card – 3.7 or higher grade point average
White Card – 3.3 or higher grade point average
White Card – Perfect Attendance (no tardies and no absences)
Blue Card – 97% attendance (tardies and absences)
Blue Card - .5 improvement in G.P.A. from previous semester
Blue Card – No discipline

Students who meet the grade point average requirement to earn a red or white card and also achieve perfect attendance for the entire semester receive an additional exam exemption incentive. Students who have had an out of school suspensions or ALC placement over the course of a semester are not eligible to receive a Renaissance card. Student discipline incidents could result in the termination of a student's Renaissance card by school administration.

# Jan Van Gorder Scholar

Students will be invited to a banquet if they earn a GPA of 3.7 or higher based on the following formula:

(Semester 1 GPA x 2 + Quarter 3 GPA)/3

Students who take CCP classes off campus must submit current grades at the end of the third quarter. Students must take at least one class at Northwestern to qualify.

# College Credit Plus (CCP)

As part of Senate Bill 311, the State of Ohio has created the College Credit Plus Program. This program is designed to allow students to take courses at any of the colleges and universities on the State approved list during high school. The credit for these courses can be counted for college credit and high school credit. Under this program Northwestern Local Schools would pay the cost of these college classes. If a student fails a CCP course, the parent or student would be responsible for the full cost of the course. This program is fairly complex and, if you are interested, you need to follow the steps below.

1. Discuss your plans with your parents and your counselor. Your counselor can help you decide if you are eligible to participate.
2. Attend a College Credit Plus meeting and turn in the form that indicates your intent to participate in the program by April 1st of the year prior to the program. This form

is in a packet of information you will receive at the College Credit Plus meeting.

3. In addition to completing the intent to participate form, students must apply online for admission in the College Credit Plus institute of their choice. Each school has their own process and procedures as well as their own requirements to enroll in College Credit Plus.
4. Provide all the information and signatures on the application and be aware of the deadlines.
5. Once accepted into a College Credit Plus institution, you may be required to attend an orientation meeting there or to schedule placement testing.
6. Notify your high school counselor of your acceptance and work together to choose appropriate courses.

In considering the benefits and risks of CCP, students and parents may want to consider the following:

1. Many CCP courses are offered on Northwestern's campus.
2. The student must provide transportation to and from the college.
3. College calendars and schedules vary and frequently do not coincide with the Northwestern calendar and schedule.
4. College grades will be entered on the student's transcript. Grades are weighted for English, math, and science courses because Northwestern offers AP courses in those content areas.
5. Students who use this option to fulfill graduation requirements in high school must be extremely careful in their course selection to make sure that the college courses taken meet specific graduation requirements. Pre-approval from principal for courses that are graduation requirements is required.
6. This program does not exempt a student from the State testing requirements.
7. Students will not be permitted to drop a high school course to enroll in the CCP program.
8. Students must report grades to guidance for athletic eligibility at the end of each high school quarter. This is the student's responsibility.
9. Students are responsible to provide current CCP grades by the last day of third quarter to determine eligibility as a Jan Van Gorder Scholar. (March 8, 2019)
10. The high school is permitted to seek tuition reimbursement for any failed college credit plus course.

# *Agricultural Education*

**All agriculture courses have a course fee. There is an additional fee for FFA membership.**

**Intro to Agriculture, Food, Natural Resources and Technology: formerly known as Agricultural Science 1** **Full Year** **1.25 credits**
**Prerequisite: None, but preferred Freshmen**
Agriculture affects everyone in the world. In this class you will learn what agriculture is all about and experience how diverse it really is. Topics include rural soils, animal science and livestock production, woodworking, parliamentary procedure, agricultural careers, personal development and record keeping. This course is the capstone course to the animal and plant sciences pathway.

**Animal and Plant Science: (Agricultural Education 2)** **Full Year** **1.25 credits**
**Prerequisite: Intro to Agriculture or Sophomore or Junior**
Post-Secondary Credit can be earned from Clark State and could transfer to other colleges or universities upon completion of the course and passing an end of course exam.

Students will apply knowledge of animal and plant science to the agriculture industry. They will be introduced to the value of production animals relative to the agricultural marketplace. Students will engage in animal classification and selection, body systems, along with animal welfare and behavior in relation to the production of animals. Students will learn principles of plant anatomy and physiology, and the role of nutrition, deficiencies and growing environment on plant production. Throughout the course, business principles and professional skills will be examined as well as leadership and public speaking.

**Livestock Selection, Nutrition and Management: (Agricultural Education 3) Full Year 1.25 credits**
**Prerequisite: Intro to Agriculture or First year Junior or Senior**
Post-Secondary Credit can be earned from Clark State and could transfer to other colleges or universities upon completion of the course and passing an end of course exam.

As Juniors or Seniors, you are preparing for a life-long career. This course will help you focus on utilizing your personal skills to land you a career or further your education through a leadership focus. Topics will include principles of nutrition, feed utilization, animal welfare, selection and management of facilities and herd populations. Students will apply knowledge of production animal care to enhance animal growth, selection of breeding stock, and management practices. Throughout the course, we will also focus on public speaking, leadership and record keeping.

**Business Management for Agricultural and Environmental Systems: Agricultural Business Related** **Full Year** **1.25 credit**
**Prerequisite: Seniors only, preferred Intro to Agriculture**
You may choose to take the Agricultural Business Course solely or combine this course with the capstone component to earn an additional 1.75 credits. Students earning the Co-op credits have the opportunity to schedule courses so that they may get early dismissal to work for an Agricultural Related Employer. Areas of study include functions of Agribusinesses, finding employment, sales and marketing, business procedures and record keeping, personal finances and taxes. Students will practice customer sales techniques and apply concepts of ethics and professionalism while understanding related business regulations.

**Agricultural Co-op Capstone** **Full Year** **1.75 credits**
**Corequisite: Enrolled in Business Management Course**
Students earning the Co-op credits have the opportunity to schedule courses so that they may get early dismissal to work for an Agricultural Related Employer. Areas of study include, functions of Agribusinesses, finding employment, sales and marketing, business procedures and record keeping, personal finances and taxes, and entrepreneurship development. Students must have an approved employer and have completed start up paperwork to leave school early.

# *Art Education*

**All art education courses have a lab fee to cover consumable class supplies.**

**Art I** **1 Semester** **½ credit**
This is an entry-level class designed to introduce students to two/three-dimensional art forms and procedures. Students will work with a variety of media and become familiar with the Elements of Art. No previous art courses are required. **This course may not be offered every year.**

**Art II** **1 Semester** **½ credit**
**Prerequisite: Successful completion of Art I**
Subjects in this course will include the exploration of the Elements and Principles of Design. Students will expand on two and three-dimensional techniques through choice based projects and guided practice. **This course may not be offered every year.**

**Art III**
**Prerequisite: Successful completion of Art II** **1 Semester** **½ credit**
Students will create art that features a central concept or theme. Each artwork will be connected to the central theme. Students will develop creative thinking, problem solving, technical, and analytical skills. Students must be able to work independently. **This course may not be offered every year.**

**Art IV**
**Prerequisite: Successful completion of Art III** **1 Semester** **½ credit**
Students will create artworks that showcase the students' accomplishments in a variety of visual concepts, techniques, and art forms. Each artwork must demonstrate creative thinking and problem solving skills. Students must be able to work independently. **This course may not be offered every year.**

**Drawing** **1 Semester** **½ credit**
**Prerequisite: Successful completion of Art II**
This class is designed to further the talents and interest of the students who have a basic foundation in drawing. Students will develop their observational skills and recognition of value, form, color and line. Students will also experience different drawing media such as charcoal, conte crayon, pen and ink, and pastels. **This course may not be offered every year.**

**Painting** **1 Semester** **½ credit**
**Prerequisite: Successful completion of Art II. The successful completion of Drawing is recommended, but not required.**
This class will emphasize the mastery of painting skills. Students will spend time experiencing

different types of paints: watercolors, acrylics, and oil paints. Students will also experiment with different styles in painting such as pointillism, impressionism, realism, and expressionism. **This course may not be offered every year.**

**Explorations in Clay** **1 Semester** **½ credit**
This class introduces a variety of clay experiences. Construction techniques to be experienced will include coil, slab, pinch construction and wheel throwing. Students will also be instructed on pottery glazing and surface decorating techniques. **(CCP credit may be earned.) This course may not be offered every year.**

**Advanced Clay**
**Prerequisite: Passing grade in Explorations in Clay** **1 Semester** **½ credit**
Students use techniques learned in Explorations in Clay to explore their personal voice in art making, developing their own styles in clay. Students must be able to work independently. **This course may not be offered every year.**

**Advanced Art** **1 Semester** **½ credit**
**Prerequisite: 2 credits in Visual Arts with a "B" average. The art instructor must approve any exceptions.**
This class is for art students who have successfully completed **4** other art courses. Students will spend the semester concentrating on mastering and developing their own styles in the areas of drawing, painting, sculpture, and clay. Student must be able to work independently. This class is open to grades 11-12. **This course may not be offered every year.**

**Art History/Appreciation** **1 Semester** **½ credit**
This course is designed for students who would like to learn more about artists and why they created their artworks. Students will study an overview of the history of art from prehistory to contemporary artists. No previous Visual Arts courses are required. **(CCP credit may be earned.) This course may not be offered every year.**

# *Business and Information Technology Education*

**Industry Credential Pathway**

In order to qualify for an industry credential in information technology, a student needs to do two things:

1. Earn a minimum score on WorkKeys.

   The WorkKeys assessment has three sections: reading, applied mathematics and locating information. Students in the class of 2019 must earn a total of 13 points across the three WorkKeys sections; students in the class of 2020 and beyond must earn a total of 14 points. Students also must earn at least three points on each section of the test.

2. Earn 12 credential points.

- Microsoft Office Specialist (MOS) Word 2016 3 pts
- Microsoft Office Specialist (MOS) Excel 2016 3pts
- Microsoft Office Specialist (MOS) PowerPoint 2016 3pts
- Microsoft Office Specialist (MOS) Excel 2016 Expert 3pts
- Microsoft Office Specialist (MOS) Access 2016 3pts
- Microsoft Office Specialist (MOS) Word 2016 Expert 3 pts

- Adobe Certified Associate Visual Communication Using Adobe Photoshop 4 pts
- Adobe Certified Associate Graphic Design & Illustration Using Adobe Illustrator 4 pts
- Adobe Certified Associate Web Authoring Using Adobe Dreamweaver 4 pts
- Adobe Certified Associate Video Communication Using Adobe Premiere Pro 4 pts
- Adobe Certified Associate Print & Digital Media Publication Using Adobe InDesign 4 pts

**Microsoft Office IT Academy** **1 Semester or Full Year** **½ credit or 1 credit**
The IT Academy is an independent, self-guided learning course. This course allows students to learn at an individualized pace. It is designed to teach students fundamental and advanced concepts, terms and functions of Microsoft Office 2016. Microsoft Office IT Academy students will be given the opportunity to take Microsoft Certification exams for Word, Word Expert, Excel, PowerPoint, Access and Outlook. MOS certifications show that you have the skills to tap the full features and functionality of Microsoft Office. This course will include many authentic application problems that students will solve by applying their newly learned computer skills. **Fee (CCP credit may be earned.)**

**Web Page Design** **1 Semester** **½ credit**
**Prerequisite: 10-11-12 Grade or 9th Grade with B or higher in 8th Grade Technology**
Students will learn the skills necessary to design and develop an effective website. Students will create and modify websites using introductory HyperText Markup Language (HTML 5) and Adobe Dreamweaver. In this advanced computer course students will cover the topics of text formatting, page layout, hyperlinks, graphics, tables, and the principles of web page design. **Fee**

**Visual Design I** **1 Semester** **½ credit**
**Prerequisite: 10-11-12 Grade or 9th Grade with B or higher in 8th Grade Technology**
Visual Design I is a project-based computer course that develops key digital communication skills such as design, project management, research and communication, and photography, graphic design, and page layout technical skills using Adobe tools Photoshop CC and InDesign CC. Students apply digital communication, creation, and design skills to project activities such as collages, logos, business cards and advertisements. **Fee**

**Visual Design II** **1 Semester** **½ credit**
**Prerequisite: Visual Design I**
This project-based course builds on student design and development skills learned in Visual Design I by focusing on longer print production projects as well as more in-depth content and advanced techniques using Adobe tools Photoshop CC, InDesign CC and Illustrator CC. Students apply advanced image manipulation and page layout design techniques to project activities such as brochures and newsletters and will also create a portfolio of the work they have created. **Fee**

**Personal Finance** **1 Semester** **½ credit**
This class teaches students to manage their personal finances in the context of current economic conditions. Students will increase their financial and economic literacy while learning about vital topics such as preparing for the job market, taxes and tax forms, consumer rights and responsibilities, budgeting, banking, investing, credit and credit cards, and insurance. This course will help prepare students make sound financial decisions for their future.

**Introduction to Business** **Full Year** **1 credit**
Whether you're interested in how our economy works, how corporations come up with the cool marketing campaigns to advertise their new products and services, or what it takes to own your own business…this class is for you! We will explore the different routes you can take on the business etiquette, international business, entrepreneurship and e-commerce. Students will participate in the group project to see "Who Will Get the Job". This course is open to grades 10, 11, and 12.

**Accounting I** **Full Year** **1 credit**
This course is an introduction to the financial world of business and is designed to provide students with a basic understanding of fiscal accounting procedures including the analysis of business transactions, journalizing, posting, adjusting and closing entries, and financial statement preparation. Emphasis is placed on accounting principles as they relate to both manual and automated financial systems. It is strongly recommended that students wishing to pursue careers in the world of business take a full year of Accounting. This course is open to grades 10, 11, and 12. **Fee**

**Warrior Yearbook** **Full Year** **1 credit**
Yearbook is a class for students who are interested in working on the high school Warrior Yearbook. Students will be responsible for layouts, photography, selling advertisements and sales campaigns. Access to a digital camera and computer knowledge is beneficial. The class requires out-of-class time to complete assignments. Students need to be motivated, organized, hardworking, and held accountable for a final product. Open to grades 10, 11, and 12. Students must fill out an application and be approved by the advisor.

**Video Production I** **1 Semester** **½ credit**
This one-semester course is designed to further understanding of the process of editing footage using Adobe Premiere Pro. Students will take a project from beginning to end where they will get the basics on organizing media, using audio, creating transitions, producing titles, and adding effects. Projects include: television commercial, informative video, music video, interviews and more.

**Video Production II** **Full Year** **1 credit**
**Prerequisite: Video Production I**
Video Production II is designed for students who have the desire to further develop their skills in video production and their understanding of advanced technology. Time will be spent in the Video Production Lab producing and directing announcements for Warrior News Broadcasting Center (WNBC) and other school related videos. Due to limited facilities, enrollment is limited. This class is open to sophomores, juniors, and seniors only. Students must fill out an application and be approved by instructor. **(CCP credit may be earned.)**

**Entrepreneurship** **1 Semester** **½ credit**
Students learn basic entrepreneurial concepts and strategies that will be used to plan and develop a start-up business. The course addresses topics critical in the planning process including general operations, financing, marketing, and human resource issues. Students will plan and execute the start-up of an entrepreneurial business venture. Participation and active involvement of community business persons will be a regular part of this class. The class requires out-of-class time to complete assignments.

# *Career Based Intervention (CBI)*

**Prerequisite: This elective requires students to apply and be accepted into the program.**

**Freshmen Career Based Intervention (CBI) Work: 1 or 2 credits** **Class: 1 credit**
Freshmen Career-Based Intervention is a work-study program designed for students in the ninth grade. Students are provided a paid training experience while they earn credit toward graduation. Special emphasis is placed on the importance of passing grades, good attendance, and positive and responsible decision making. Some of the areas covered include: good work skills and habits, general employability skills, job search techniques, developing a résumé and cover letter, math and writing skills related to the working world, study skills, human relations, skills for staying employed, self-evaluation, career exploration, money management, health and safety, and career passport materials. Students are offered academic intervention where necessary in order to be successful in school and on the job.

**Sophomore Career Based Intervention (CBI 10) Work: 1- 2 credits** **Class: 1 credit**
The Sophomore Career-Based Intervention program is a work-study program designed for students in the tenth grade. Students are provided a paid on-site job experience while they earn credit toward graduation. The sophomore program builds on the foundation of skills taught during the freshmen program. Heavy emphasis is placed on personality assessments and career exploration, as many students from this program opt to attend CTC for their junior and senior years. Students are offered academic intervention where necessary in order to be successful in school and on the job. In addition, students have the opportunity to earn missing credits through online learning.

**Junior/Senior Career Based Intervention (CBI 11 &12) Work: 2 credits, Class: 1 credit**
Junior/Senior Career-Based Intervention is a work-study program offered to students of driving age who may be considered "at-risk" of not graduating due to a variety of school or life circumstances. Students enroll in the courses required for graduation in the morning, and they earn credits toward graduation by working off-campus in a paid work experience in the afternoon/evening. The junior/senior program builds on the foundation of skills taught during the freshmen and sophomore programs. Curriculum focuses upon preparing the student for life after high school. Topics covered include: career exploration, employment skills, financial awareness and responsibility, and human interaction skills. Students are offered academic intervention where necessary in order to be successful in school and on the job. In addition, students have the opportunity to earn missing credit through online learning.

# *English Education*

**English 9 (NCAA)** **Full Year** **1 credit**
Students will work extensively on writing paragraphs and writing multi-paragraph papers using textual evidence. In addition, they will review grammar, enhance vocabulary, and read and analyze a variety of literary genres.

**Advanced English 9 (NCAA)** **Full Year** **1 credit**
Students will work extensively on writing both paragraphs and multi-paragraph papers using textual evidence, while learning to document research. In addition, they will review grammar, enhance vocabulary, and read and analyze a variety of literary genres. Students complete a summer reading assignment and purchase paperback books throughout the year. Failure to complete summer work will result in the student being removed from this class.

**English 10 (NCAA)** **Full Year** **1 credit**
Students will continue to master the writing process by writing paragraphs and multi-paragraph papers with a concentration on argumentative and literacy analysis while also mastering MLA format. In addition, they will review mechanics, enhance vocabulary, and read and analyze a variety of literary genres.

**Advanced English 10 (NCAA)** **Full Year** **1 credit**
Students will continue to master the writing process by writing paragraphs and multi-paragraph papers with a concentration on argumentative and literacy analysis while also mastering MLA format. In addition, they will review mechanics, enhance vocabulary, and read and analyze a variety of literary genres. Students complete a summer reading assignment and purchase paperback books throughout the year. Failure to complete summer work will result in the student being removed from this class.

**English 11 (NCAA)** **Full Year** **1 credit**
Students will learn English grammar, punctuation, and usage in order to develop a strong foundation for becoming an effective communicator. In addition to writing a variety of genres, students will investigate post-secondary educational paths and career choices. Also, students will read a variety of literature with the hope of improving reading comprehension.

**College Preparatory English 11 (NCAA)** **Full Year** **1 credit**
**Prerequisite: Successful completion of English 9 and English 10**
Students will write informative and argumentative papers, write a research paper with MLA documentation, and respond to a variety of literary genres. Moreover, students will share ideas and papers aloud in class. Throughout the year, they will review vocabulary, grammar usage, and mechanics. **(CCP credit may be earned.)**

**English 12 (NCAA)** **Full Year** **1 credit**
Students will review/master English grammar, punctuation, and usage in order to develop a strong foundation for becoming an effective communicator. In addition to writing a variety of genres, students will investigate post-secondary educational paths and career choices. Also, students will read a variety of literature with the hope of improving reading comprehension.

**College Preparatory English 12 (NCAA)** **Full Year** **1 credit**
**Prerequisite: Successful completion of English 9 and English 10**
Students will research, write informative and argumentative papers, and respond to a variety of literary genres. Throughout the year, they will review vocabulary, grammar usage, and mechanics. **(CCP credit may be earned.)**

**AP Language and Composition (NCAA)** **Full Year** **1 credit**
Advanced Placement Language and Composition is a one-year weighted course that involves the intensive study and writing of analytical and persuasive essays on subjects ranging from personal experience to public policies, from scientific literature to popular culture. Taking the national AP exam in May is optional, although a successful score ensures college credit at more than 2,000 colleges and universities in the United States. Class is open to any juniors or seniors who have completed both Advanced English 9 and Advanced English 10 with at least a *B* or with instructor permission. Students complete a summer reading assignment and purchase several paperback books throughout the year. Failure to complete summer work will result in the student being removed from this class. **(CCP credit may be earned.)**

**AP Literature and Composition (NCAA)** **Full Year** **1 credit**
Advanced Placement Literature and Composition is a one-year weighted course that involves studying British and American literature, including poetry, from various periods and genres and using the knowledge in discussions of literary topics. Extensive writing and rewriting develop effective standards of critical analysis. Taking the national AP exam in May is optional, although a successful score ensures college credit at more than 2,000 colleges and universities in the United States. Class is open to any juniors or seniors who have completed both Advanced English 9 and Advanced English 10 with at least a *B* or with instructor permission. Students complete a summer reading assignment and purchase several paperback books throughout the year. Failure to complete summer work will result in the student being removed from this class. **(CCP credit may be earned.) Not offered for 2019-2020 school year.**

## English Electives

**Creative Writing (NCAA)** **1 Semester** **½ credit**
Students will learn the fundamentals of writing for personal enjoyment and publication. Genres will include poetry, fiction, nonfiction, and journalism. This English class is open to juniors and seniors only. **This course may not be offered every year.**

**Drama** **1 Semester** **½ credit**
The semester course introduces students to acting techniques and the fundamentals of oral communication like enunciation, body language, composure, and confidence. Individuals will be expected to memorize lines, create costumes, and build sets. At times students must stay after school to prepare or to practice for a performance. As a performance-based class, students must remember that their work ethic and commitment affects others. Moreover, students who take the class are encouraged to participate on stage or behind the scenes in the school's drama production and school musical. **This course may not be offered every year.**

**Mythology (NCAA)** **1 Semester** **½ credit**
This semester course is an introduction to ancient Greek and Roman Mythology through the study of literature. Students will research and/or read the principal myths and mythological figures of ancient Greece and Rome. Assignments will range from PowerPoint presentations, expository papers, acting out scenarios, and creating extension or adaptations of myths. The course is open to sophomores, juniors, and seniors. **This course may not be offered every year.**

**Communication (NCAA)** **1 Semester** **½ credit**
This semester course focuses on students' improving their face-to-face encounters, small group discussions, and public speaking. In addition to emphasizing logical and critical thinking, the instruction addresses delivery such as enunciating, projecting, facial expressions, and body language. The course is open to sophomores, juniors and seniors.

**Fiction (NCAA)** **1 Semester** **½ credit**
Students will read novels, short stories, and poems written by authors/poets from the twentieth and twenty-first centuries. In addition, they will participate in literature discussions, respond to prompts, and communicate with these modern authors. This English class is open to juniors and seniors only. **This course may not be offered every year.**

**Publishing (School Newspaper)** **Full Year** **1 credit**
Students will learn the procedures for producing and editing publications using programs such as: Illustrator, InDesign, and Publisher. Students will create the school newspaper, as well as other projects such as sports and choir programs, banquet programs, award certificates and more. Students must fill out an application and be approved by the advisor. Fee. **This course may not be offered every year.**

# *Family and Consumer Science*

**Child Development** **1 Semester** **½ credit**
This semester course is beneficial to students who are considering careers involving children, those currently providing care for children or those considering parenthood in the future. Students learn theories and principles of physical, social, emotional, intellectual and moral development from birth to early school age.

Topics include consideration of the roles, responsibilities and challenges of parenthood; pregnancy; prenatal development; preparation for birth; the birth process; meeting the needs of infants and children; impacts of heredity, environment and family and societal crisis on development of the child; meeting children's needs for food, clothing, shelter and care giving; and parental resources and services.

**Foods and Nutrition** **1 Semester** **½ credit**
In this semester course, students will explore the influence of food and nutrition. Basic food preparation skills, nutrition and food safety will be emphasized. This course will cover topics such as: nutrition, weight management, and food selection. Students will also gain experience with measurements and conversions, volumes, and weights. They will also examine careers in foods. There will be a lab fee.

**Senior Seminar** **1 Semester** **½ credit**
This course is for seniors only. This course will focus on postsecondary education preparation including researching colleges, submitting applications, applying for scholarships, and submitting the FAFSA. Students will be expected to thoroughly plan and prepare for life after high school. This class will include guest speakers, community service and college visits. Course requirements are participating in a job shadowing experience and mock interviews.

# *Foreign Language Education*

**A "C" or better in English class is required for first year for foreign language courses. Successful completion ("C" or better) in the previous course is recommended for continuing study in foreign language.**

## Latin

**Latin I (NCAA)** **Full Year** **1 credit**
Latin I introduces fundamental Latin, including basic grammar structures, vocabulary, and pronunciation. Students will learn to read, write, listen to, and speak in basic Latin that will be useful not only for reading more advanced Latin texts, but also for use in the student's day-to-day interactions. Students will be introduced to Roman culture through the study of mythology, history, social structures, clothing, food, and games.

**Latin II (NCAA)** **Full Year** **1 credit**
Latin II continues working on the ability to read, write, listen to, and speak in Latin. Students will continue to perfect their pronunciation skills while also working on effectively communicating, both verbally and in writing, in Latin. Students will continue to learn about the language and culture of the Romans and how it relates to modern culture, practices, mythology, and vocabulary.

**Latin III (NCAA)** **Full Year** **1 credit**
Latin III reinforces the skills learned in Latin I and II. Through the reading of authentic texts, students will gain a deeper understanding of Roman culture. Students will continue to perfect their abilities to read, write, speak, and listen in Latin. Emphasis will be placed on the Colosseum, Roman temples, and Roman holidays, with each of these being the focal point of at least 1 project per semester.

**Latin IV (NCAA)** **Full Year** **1 credit**
Latin IV continues to perfect the student's abilities to read, write, speak in, and listen to Latin. Students will be translating modern texts from Latin to English and from English to Latin. Two culture projects throughout the year will give the students a deeper understanding of the Roman culture, as well as our own. Students will now be expected to hold classroom communications in Latin, with English only rarely being utilized.

## Spanish

**Spanish I (NCAA)** **Full Year** **1 credit**
A proficiency-based approach to language skill development will be implemented through a variety of functional tasks using authentic materials. Special emphasis will be placed on both using spoken Spanish daily as a means of communication with the teacher and with classmates. The use of Spanish outside the classroom will be encouraged. A class fee may be required.

**Spanish II (NCAA)** **Full Year** **1 credit**
Spanish II reviews important points of grammar, introduces the use of new patterns of speaking and original writing. Listening skills are honed, and students will begin to read more complex authentic texts. Communication in Spanish will include a range of conversation strategies. A strong background in Spanish I is recommended. A class fee may be required.

**Spanish III (NCAA)** **Full Year** **1 credit**
Spanish III is advanced study which includes Spanish readings and listening of authentic texts and a survey of the arts in Spanish and conversation practice. Students will communicate in the target language, both in person and via technology. A class fee may be required.

**Spanish IV (NCAA)** **Full Year** **1 credit**
Spanish IV is the final year of Hispanic studies and encompasses an extensive examination of Spanish civilization and an emphasis on literature, art, history, and culture. Students will do research and present their results in Spanish. A class fee may be required. **(CCP credit may be earned.)**

**American Sign Language I (NCAA)** **1 Semester** **½ credit**
This course provides a foundation for non-signers to study American Sign Language (ASL) and learn about deaf culture. It includes principles, methods and techniques for communicating with deaf individuals who sign. Focusing on development of receptive and expressive sign skills, manual alphabet, numbers, sign vocabulary, syntax, grammar and culture. **(CCP credit may be earned.)**

**American Sign Language II (NCAA)** **1 Semester** **½ credit**
An in-depth examination of the multiple facets that constitute effective interpreting. These include communication theory, cognitive processing skills, cultural adjustments, contextual and situational factors, expansion techniques, controlling legislation and ethics and best practices. Various interpreting settings are examined, with special emphasis on educational interpreting, interpreter licensure and the national interpreting evaluation process. **(CCP credit may be earned.)**

# *Health and Physical Education*

**Two semesters of Physical Education and one semester of Health are required for graduation.**

**Physical Education I A/B** **1 Semester** **¼ credit**
All students are required to pass two semesters of Physical Education. The concentration of this course involves conditioning, a variety of individual and group sports, lifetime sports, and strength development. Physical fitness, participation and sportsmanship are stressed. Students will be tested on knowledge and skills development.

**Advanced Physical Education** **1 Semester** **¼ credit**
The concentration of this course will be to develop skills in both 0team sports and individual sports with added emphasis on lifetime fitness. Assessments will be aligned with the state standards for physical education. (Physical Education I is recommended before taking this course.)

**Health** **1 Semester** **½ credit**
The Health program at Northwestern High School is multi-dimensional in its approach. The facts, attitudes, and practices that are needed to maintain individual, family, and community health are studied. Students will be informed of and discuss the issues related to sex, tobacco, alcohol, and other drugs. And finally students will be provided with the opportunity to develop an understanding of human growth and development and how to develop healthy relationships regarding their personal lives and work.

**Strength and Conditioning A/B** **1 Semester** **¼ credit**
This course offers intensive strength training using free weights. The course is geared toward student athletes with a desire to excel in strength training and conditioning toward a particular sport or power lifting. Students will pursue individual programs for their development. Strength and Conditioning A/B can be continually repeated for credit with the teacher's recommendation. This course can only count for ¼ credit toward the graduation requirement for Physical Education. (Recommended for class: Successful completion of Physical Education I or Instructor Approval.)

**Dance and Aerobics** **1 Semester** **¼ credit**
This class is designed to improve body strength, flexibility, agility, and the cardiovascular system. Students will learn various high-energy dance styles such as: Zumba, Yoga, Pilates, Aerobics, Step Aerobics, and Line Dancing. (Recommended for Class: Successful completion of Physical Education I or Instructor approval.)

**Personal Fitness and Your Health** **1 Semester** **¼ credit**
The focus of this course is to emphasize physical activity as an essential part of overall health and wellness. Students will be given opportunities to learn and practice healthy life-long habits and behaviors. Students will learn and practice an effective personal fitness program. (Recommended for Class: Successful completion of Physical Education I or Instructor approval.) **Not offered every year.**

# *Mathematics Education*

**Calculator requirements are listed for each class.**
The TI-83 Plus is recommended; however, other graphing calculators such as the TI-83, 84, 85, or 86 are acceptable. The TI-89 will not be allowed in any course except AP Calculus.

## General Mathematics Education Courses

**Algebra I – A (8th grade math)** **Full Year** **1 credit**
Algebra I –A is the first half in the sequence of Algebra I. Topics covered will include writing and solving equations, properties of numbers, functions and relations, percent of change, graphing linear equations, slope, writing and solving inequalities, and probability and statistics. **A scientific calculator is required.**

**Algebra I – B pre-req is Algebra I – A** **Full Year** **1 credit**
Algebra I – B is the second half in the sequence of Algebra I. Topics covered will include systems of linear equations, exponents and exponential functions, quadratic expressions, radical functions, and rational functions. **A scientific calculator is required.**

**Geometry pre-req is Algebra I (CP or A and B)** **Full Year** **1 credit**
This course includes the study of segments, angles, triangles, parallel lines, congruency, solid geometry, geometric transformations, polygons, similar polygons, circles, areas, volume, probability, inductive and deductive reasoning processes, and right triangle trigonometry. **A scientific (TI-30X) calculator is required.**

**Algebra 2 (NCAA) pre-req is Algebra I and Geometry** **Full Year** **1 credit**
This course is a continuation of Algebra I. Other topics include relations, functions, quadratics, exponentials, logarithms, matrices, exponential functions, radicals, and equations. **A graphing calculator is required.**

**Senior Math (NCAA)** **Full Year** **1 credit**
**Prerequisite: 3 years of math credits**
This course will prepare students for mathematics that they may use in everyday situations. This course will include a cumulative review of concepts previously taught and an opportunity to apply these concepts. **This course may not be offered every year.**

## College Preparatory Mathematics Education Courses

The critical course in the college sequence is Algebra I. Students who do not do well in Algebra I frequently have serious difficulties with the next two college preparatory courses. To insure a firm foundation in Algebra, students who have not earned a "C" or better in CP Algebra I must take either Algebra I – B, or repeat CP Algebra I. The most recent grade will appear on the student's transcripts.

**CP Algebra I-B (NCAA)** (recommendation from Algebra I-A instructor) **Full Year** **1 credit**
Algebra I-B is the second half in the sequence of Algebra I. Topics covered will include systems of linear equations, exponents and exponential functions, quadratic expressions, radical functions, and rational functions. **A scientific calculator is required.**

**CP Algebra I (NCAA)** **Full Year** **1 credit**

This is the beginning course in the college preparatory math education sequence.
Recommended: Approval of the previous math instructor. The emphasis in Algebra I is placed upon the students acquiring enough knowledge of algebra to pursue more advanced mathematics courses and to apply algebraic concepts in other subjects. Topics include: algebraic expressions, real numbers, linear and quadratic equations and inequalities, exponents, functions, relations, graphing, polynomials, systems of equations in two variables. **A graphing calculator is required.**

**CP Geometry (NCAA)** **Full Year** **1 credit**

**Prerequisite: CP Algebra I or recommendation from Algebra I – B instructor**
**Recommended: "C" or better in CP Algebra I**
This course includes the study of segments, angles, triangles, parallel lines, congruency, solid geometry, geometric transformations, polygons, similar polygons, circles, areas, volume, probability, inductive and deductive reasoning processes, and right triangle trigonometry. This course is heavily integrated with Algebra skills. **A graphing calculator is recommended, but at least a scientific calculator (TI-30X) is required.**

**CP Algebra II (NCAA)** **Full Year** **1 credit**

**Prerequisite: Algebra and CP Geometry**
**Recommended: "C" or better in CP Algebra I and CP Geometry**
This course is an accelerated and rigorous continuation of Algebra I. Other topics include relations, functions, quadratics, exponentials, logarithms, matrices, determinants, progressions and expansions, trigonometry, and their applications. **A graphing calculator is required.**

**Pre-Calculus (NCAA)** **Full Year** **1 credit**

**Prerequisite: Algebra I, Geometry, and CP Algebra II**
**Recommended: "C" or better in CP Algebra I and CP Geometry and CP Algebra II**
This course is for the serious student preparing for college. Topics include analytic geometry, functions, graphing, circular and triangular trigonometry, logarithms, sequences and series, limits, and other pre-calculus material. A graphing calculator approach is used throughout. **A graphing calculator is required.**

**Advanced Placement Calculus (NCAA)** **Full Year** **1 credit**

**Prerequisite: Pre-Calculus**
This is a rigorous approach to Calculus with students working at an accelerated pace. Topics include analytic geometry, limits, continuity, differentiation, integration, and applications. **A graphing calculator is required.**

**Advanced Placement Statistics (NCAA)** **Full Year** **1 credit**

**Prerequisite: CP Algebra II**
This course provides an opportunity for the advanced mathematics students to develop their understanding of the fundamental concepts of statistics. Students are exposed to four broad conceptual themes: Exploring Data, Sampling and Experimentation, Anticipating Patterns, and Statistical Inference. This course involves activities and projects that require collecting data, performing calculations, and drawing conclusions from the results. **A graphing calculator is required.**

## Math Electives

**Computer Science Principles** **1 Semester** **½ credit**
**Prerequisite: Successful completion of Algebra II**
This semester course is designed to develop an understanding of the usage and impact of computer science as an innovative computational tool for solving problems in many fields. Effective communication and collaboration skills are developed as students individually and in group explorations solve simulations of real-world problems. The course focuses on the importance of solving problems and the impacts of those solutions to their community, society, and the world. **This course may not be offered every year.**

**Truth and Data in the Modern World** **1 Semester** **½ credit**
**Prerequisite: Successful completion of Geometry**
The purpose of this semester course is to introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students are exposed to four broad conceptual themes: Exploring Data, Sampling and Experimentation, Anticipating Patterns, and Statistical Inference. This course will focus on applying statistical concepts to group projects. **This course may not be offered every year**.

**Real World Math** **1 Semester** **½ credit**
**Prerequisite: Successful completion of Geometry**
This semester course is designed to apply mathematics to typical situations that the ordinary adult would encounter in life. Students explore how mathematics arises naturally from everyday situations through hands-on, real-life activities and accompanying practice exercises. **This course may not be offered every year.**

**Engineering Principles** **1 Semester** **½ credit**
**Prerequisite: Successful completion of Algebra II**
This course will introduce students to fundamental engineering concepts and scientific principles associated with engineering design applications. Topics include mechanisms, energy, statics, materials, and kinematics. Additionally, students will learn material properties and electrical, control, and fluid power systems. Students will learn to apply math problem solving, research and design skills to create solutions to engineering challenges using hands-on techniques and group projects. **This course may not be offered every year.**

# *Music Education*

**Students in all music courses must be in attendance at all performances and events in which the group is involved. The Marching Band has mandatory summer camp. All music courses have participation fees.**

## Instrumental Music Education

**Marching Band** **1 Semester** **½ credit**
Marching Band students must attend Band Camp as prescribed by the director in order to be considered a fulltime member. Students must be enrolled in the course in order to participate; Marching Band is not considered an extra-curricular. The band participates at scheduled

Northwestern football games (home and away), in several parades, and also a limited number of special events (such as festivals or competitions) which are all announced well in advance. This course also includes Pep Band requirements for Basketball season. Enrolled students who participate in fall/winter athletics and find they have conflicting schedules may work out a schedule with the director. **Fee**

**Symphonic Band** **Full Year** **1 credit**
Enrollment is with instructor permission. Emphasis will be on advanced musicianship, performance techniques, and technical skills. The selection of music will be advanced band literature. Students will need to be considerable proficient on their instruments and will therefore likely be, though it is not limited to, upperclassmen. This ensemble will present a formal concert each quarter in addition to participating in OMEA's large Group and Solo & Ensemble Adjudicated Events. **Fee**

**Concert Band** **1 Semester** **½ credit**
Emphasis will be on basic musicianship, performance techniques, and fundamental skills. The selection of music will be varied throughout the course. This ensemble will present a formal concert each quarter it is active. **Fee**

**Music Theory** **1 Semester** **½ credit**
Music Theory is a course specializing in teaching the fundamentals of music theory: the thoughts, meanings, and workings of written music. Students will work towards composing short musical works. Basic music-reading skills is required for this course.

**Music Appreciation** **1 Semester** **½ credit**
Music has the power to entertain, amuse, move, and inspire. Music Appreciation encourages students to view music as a part of the student's own life and human life in other cultures. Musical styles, historical periods, musical concepts, and uses or functions of music will be covered. Music genres and styles covered include pop, jazz, ethnic, rock, film, classical, traditional, gospel, hip-hop, opera, and musical theatre. This course is open to all students, regardless of musical ability.

## Vocal Music Education

**Concert Choir** **Full Year** **1 credit**
Concert Choir is an open enrollment course. Proper singing techniques, basic music theory, performance, and sight singing elements will be practiced on a continual basis. Various types of music will be studied and performed at quarterly concerts which are **required**. No audition, but ability to match pitch is a requirement. **Fee**

**Show Choir** **Full Year** **1 credit**
Show Choir enrollment is by audition only. Each student is responsible for financing his/her individual show outfit. Various styles of music will be presented, with emphasis placed upon performance and stage presence. Course includes **required** quarterly concerts, OMEA events and additional performances. **Fee**

**Symphonic Choir** **Full Year** **1 credit**
This course is for those students with at least one year experience in concert choir. Proper singing techniques, music theory, performance and sight singing elements will be studied and practiced on a continual basis. Various types of music will be studied with an emphasis on advanced choral literature. Permission of the instructor is required before registering for this course. Course includes quarterly concerts which are **required**. **Fee**

**Music Education Electives**

**Music and Performance** **1 Semester** **½ credit**
Students will participate in creative expression, acting, singing, and dance. This class is open to grades 9-12. Course includes a **required** quarterly and/or semester concert/production and additional performances. Elective credit. **Fee**

**Advanced Music and Performance** **1 Semester** **½ credit**
Students must have had Music and Performance. Students will continue developing skills in creative expression, acting, singing, and dance. This class will participate in the aspects of production and presentation. Course includes a **required** quarterly and/or semester concert/production and additional performances. Elective credit. **Fee**

# *Science Education*

**College Preparatory (CP) Science Education Courses**

**CP Physical Science (NCAA)** **Full Year** **1 credit**
**Prerequisite: Successful completion of Grade 8 Science**
**Co-requisite: CP Algebra I B**
CP Physical science is a high school level, inquiry-based laboratory experience that engages students in asking valid scientific questions and gathering and analyzing information. This course will help prepare students for college-level physical science courses while requiring more advanced mathematics skills.

CP Physical science introduces students to key concepts and theories that provide a foundation for further study in other sciences and advanced science disciplines. CP Physical science comprises the systematic study of the physical world as it relates to fundamental concepts about matter, energy and motion. A unified understanding of phenomena in physical, living, Earth and space systems is the culmination of all previously learned concepts related to chemistry, physics, and Earth and space science, along with historical perspective and mathematical reasoning.

**CP Biology (NCAA)** **Full Year** **1 credit**
**Prerequisite: Successful completion of CP Physical Science**
CP Biology is a high school level course, which satisfies the Ohio Core science graduation requirements. This course requires students to engage in inquiry-based laboratory experiences that involves asking valid scientific questions and gathering and analyzing information. This course prepares students to take more advanced, college-level biology courses.

This course investigates the composition, diversity, complexity and interconnectedness of life on Earth. Fundamental concepts of heredity and evolution provide a framework through inquiry-based instruction to explore the living world, the physical environment and the interactions within and between them. Students engage in investigations to understand and explain the behavior of living things in a variety of scenarios that incorporate scientific reasoning, analysis, communication skills and real-world applications.

**CP Chemistry (NCAA)** **Full Year** **1 credit**
**Pre-requisite: Biology with a "B minus" or better and CP Algebra or CP Algebra I B with a "B minus" or better.**
**Co-requisite: CP Biology**
CP Chemistry is a college preparatory high school level course. The five-unit course integrates mathematics with inquiry-based laboratory experience to engage students in asking valid scientific questions and gathering and analyzing information. The course builds throughout the year beginning with atomic structure and periodicity, and then studies the interactions of matter and molecular geometry, and finally incorporates stoichiometric and gas law calculations. Students are introduced to key concepts and theories that provide a foundation for further study in advanced scientific disciplines. CP Chemistry is a challenging and systematic study of the predictive physical interactions of matter and subsequent events that occur in the natural world.

**Everyday Science (NCAA)** **Full Year** **1 credit**
**Prerequisites: Successful completion of Physical Science and Biology**
Students further their understanding of scientific topics as they experience hands-on investigations throughout this four unit course. Topics include the impact of humans on the environment, chemical interactions, genetic food modification, and meteorology. Students are assessed using performance tasks. **This course fulfills the third year science credit required for graduation.**

**Physics (NCAA)** **Full Year** **1 credit**
**Prerequisites: CP Physical Science, CP Geometry, and CP Algebra II with a "B minus" or better. Co-requisite: Pre-Calculus**
Physics is an introductory course to prepare students for college or more advanced science classes. This course will prepare the student to interpret everyday events in terms of physical concepts and principles. The topics of study will be: basic laboratory techniques and safety procedures, vectors, forces, straight line motion, curved motion, energy, light, waves, sound, electricity, magnetism, and modern physics Students will be challenged to apple their knowledge of the laws of physics to solve physics related critical thinking problems.

**STEM (NCAA)** **1 Semester** **½ Credit**
**Prerequisites: Physical Science and Biology**
Students learn how technology, engineering, and other core academic subjects connect to real world situations in STEM (Science, Technology, Engineering, & Math). Students will use scientific concepts to complete performance tasks that include designing and building projects; use Logger Pro software to demonstrate understanding of the principles of motion and mechanics; and build technological skills by collecting and analyzing data with modern software. This course fulfills ½ of the third year science credit required for graduation. **(Not offered for 2019-2020 school year.)**

**Robotics (NCAA)** **1 Semester** **½ Credit**
**Prerequisites: Physical Science and Biology**
This robotics STEM based class is focused on scientific inquiry learning, design, and problem solving with the Fischertechnik construction system. Students are given a technical task, and develop engineering and technology skills as they work collaboratively to solve it. Students are challenged as they create programming solutions to control their prototypes. This course fulfills ½ of the third year science credit required for graduation. **(Not offered for 2019-2020 school year.)**

**Fun with Physics!** **1 Semester** **½ Credit**
**Prerequisites: Physical Science and Biology**
This class is a hands on, inquiry based curriculum that introduces physical science topics to students through laboratory work and focuses on how these principles apply to future careers. Students are directed to perform experiments, while building their problem solving and technical skills with the use of Logger Pro software for data analysis and graph building. Students will complete performance based tasks at the end of each unit as they assume the role of hydraulic specialist, astronomer, electrician, etc. This course fulfills ½ of the third science credit required for graduation. **(Not offered for 2019-2020 school year.)**

**Exercise Science** **1 Semester** **½ credit**
**Prerequisites: successful completion of 9th and 10th grade science (must include Biology)**
Exercise Science, the science of human movement, incorporates anatomy, biology, chemistry, physics and physiology. Topics of study include: Introductory Human Anatomy, Exercise Physiology, Nutrition/Ergogenic Aids, Sports Psychology, and Training/Conditioning. This semester course introduces students to physiological principles relevant to the effect of exercise on human functioning. The course meets ½ of the third-year science credit required for graduation. It is recommended that students take Exercise Science before Sports Science; however, they can be taken out of sequence if necessary. **This course is open to 11th and 12th graders only.**

**Sports Science** **1 Semester** **½ credit**
**Prerequisites: successful completion of 9th and 10th grade science (must include Biology)**
This semester course provide high school students with an overview of science in sports. Sports Science incorporates the anatomy, biology, chemistry, physics and physiology. Topics of study include: Introductory Human Anatomy, Exercise Physiology, Nutrition/Ergogenic Aids, Sports Psychology, and Training/Conditioning. The course meets ½ of the third-year science credit required for graduation. It is recommended that students take Exercise Science before Sports Science; however, they can be taken out of sequence if necessary. **This course is open to 11th and 12th graders only.**

## Advanced Placement (AP) Science Education Courses

**CCP/AP Biology (NCAA)** **Full Year** **1 credit**
**Prerequisite: CP Chemistry and CP Biology with a final grade of "B minus" or better**
The two main goals of AP Biology are to help students develop a conceptual framework for modern biology and to help students gain an appreciation of science in the process. The ongoing information explosion in biology makes these goals even more challenging. Primary emphasis in an AP Biology course should be on developing an understanding of concepts rather than on memorizing terms and technical details. Essential to this conceptual understanding are the following: a grasp of science as a process rather than as an accumulation of facts; personal experience in scientific inquiry; recognition of unifying themes that integrate the major topics of biology; and application of biological knowledge and critical thinking to environmental and social concerns. This course will require time beyond the regular school day for extended lab as necessary. A college text is used. Summer work is required. (**CCP credit may be earned**.)

**CCP/AP Chemistry (NCAA)** **Full Year** **1 credit**
**Prerequisite: CP Chemistry with a final grade of "B minus" or better and CP Algebra II with a final grade of "B minus" or better**
This course is designed to provide additional preparation for those students who have taken or are taking all the other available physical science courses. The use of mathematics is extensive. The serious student may wish to take the test for advanced placement college credit after completing this course. College-level texts and laboratory books are used. Laboratory work is used extensively in the course and is often a cooperative venture. Individual areas of interest may be investigated. Evaluation is based upon homework, laboratory results and reports, quizzes and tests. This course will require extra time beyond the regular school day for extended lab when necessary. A college text is used. Summer work is required. **(CCP credit may be earned.)**

# *Social Studies Education*

**Government (NCAA)** **Full Year** **1 credit**
Government deals with the structure and function of U.S. government as well as other world governments. It covers citizenship, public policy, and the U.S. constitution, including all 27 Amendments. The structure and functions of state and local governments will be covered, as well as the domestic economic structure and personal finance issues. This is a sophomore level course.

**CCP/Advanced Government (NCAA)** **Full Year** **1 credit**
Advanced Government deals with the structure and function of U.S. government as well as other world governments. It covers citizenship, public policy, and the U.S. constitution, including all 27 Amendments. The structure and functions of state and local governments will be covered, as well as the domestic economic structure and personal finance issues. Students will be expected to analyze political thoughts and support opinions of their own. It is taught at an advanced level offering a more in depth study. This is a sophomore level course. **(CCP credit may be earned.)**

**World History (NCAA)** **Full Year** **1 credit**
World History is the study of the past people and cultures from 1600 to the present. This course emphasizes the links between World History and the current world situation. The study of history, geography, economics, sociology, and political science will be integrated into the course. Activities designed to develop the students' critical thinking skills and basic social studies skills will also be emphasized. Students should be prepared for a fast paced course with independent activities. This is a junior or senior level course.

**CCP/Advanced World History (NCAA)** **Full Year** **1 credit**
Advanced World History is an in-depth study of the past people and cultures from 1600 to the present. This course emphasizes the correlation between World History and the current world situation. The study of history, geography, economics, sociology, and political science will be integrated into the course. The course stresses independent and critical thinking skills in assessing the background of the modern world. Students should be prepared for an advanced paced course which requires independent research projects and higher level activities throughout the year. This is a junior or senior level course. **(CCP credit may be earned.)**

**American History (NCAA)** **Full Year** **1 credit**
American History is the study of the United States from Post-Reconstruction to the present. This course emphasizes history as the study of how Americans have reached their current situation by linking the past to the present. Students should expect to study the full spectrum of the social studies within the study of history, literature, and the arts in history, and to recall content learned in eighth grade. This course requires a semester project each semester to be determined by the instructor. Students should expect to learn sources, historical writing, and debating different sides of a thesis. This is a freshman level course.

**Advanced American History (NCAA)** **Full Year** **1 credit**
Advanced American History is an in-depth study of the United States from Civil War reconstruction to the present. This course can be taken in place of American History. This course emphasizes critically thinking about the history of the United States and how it is linked to the present. Students should expect to study the full spectrum of the social studies with this study of history, literature, and the arts in history, and are expected to recall information learned in eighth grade. Students should be prepared for an advanced pace which will require reading, writing, independent research projects, and higher level debates. This course requires a semester project each semester to be determined by the instructor. Students should expect to learn not only content, but also socials studies skills including historical research and credible sources, historical writing, and debating different sides of a thesis. This is a freshman level course.

## Elective Social Studies Courses

**Current Events (NCAA)** **1 Semester** **½ credit**
Current Events is an elective course. In addition to current news items and discussion, part of the course will involve coverage of 20th century history in areas where it is crucial to understanding events in the contemporary world. To increase student involvement and research, the topics will be adjusted according to the students' interests. Due to the changing nature of modern events, students are able to take the course twice in non-consecutive semesters.

**Psychology (NCAA)** **1 Semester** **½ credit**
Psychology is an elective course for students in the tenth grade or higher. Psychology studies human behavior, attitudes and emotional needs, providing insight on personality, crime, delinquency, and developing a healthy mind. Students will learn how psychology is applied in everyday life.

**Sociology (NCAA)** **1 Semester** **½ credit**
Sociology is an elective course for students in the tenth grade or higher. Sociology is the scientific study of society, groups, institutions, organizations, and the interrelationships between members of societies. Social problems revealing the stresses and strains of modern social life are studied. The result will be an awareness of the problems and viewpoints of other people.

**CCP/Western Civilization (NCAA)** **Full Year** **1 credit**
Western Civilization is a survey course designed to link modern man with the civilization of the past. History will be viewed as a continuing problem-solving process. Western Civilization will be devoted from the beginning of western civilization through the Age of Exploration (1500's). This course is recommended for the college prep senior. **(CCP credit may be earned.)**

**Modern Warfare (NCAA)** **1 Semester** **½ credit**
Modern Warfare is a survey course designed to demonstrate the correlation of modern military conflicts and tactics to those of the past. The course will range from topics dating from American military conflicts to military conflicts throughout the world, including modern conflicts such as the War on Terror and genocide. Local military conflicts and historical conflicts will be incorporated into the course, such as Tecumseh and the Battle of Lake Erie.

**Pop Culture (NCAA)** **1 Semester** **½ credit**
Pop Culture is a survey of American popular culture; past, present, and future. The course will analyze the influences on the shaping of popular culture including media, technology, sports, politics, literature, and entertainment. The course will examine the changes of American popular culture through the decades and the relationship between culture and current events. To increase global awareness, students will compare American popular culture with other cultures from around the world. The course culminates students' evaluating their role in shaping current and future popular culture. **This course may not be offered every year.**

**Economics (NCAA)** **1 Semester** **½ credit**
Students acquire a working knowledge of major economic concepts, issues, and systems in order to develop economic reasoning skills used to make informed choices as producers, consumer, investors, workers, and citizens in an interdependent world with correlation to the local community.

**World Geography (NCAA)** **1 Semester** **½ credit**
World Geography builds on students' understanding of geography and spatial thinking. Contemporary issues are explored through the lens of geography. In addition to understanding where physical and cultural features are located and why those features are located as they are, students examine the implications of these spatial arrangements. **This course may not be offered every year.**