

# North High

## 2025-2026 Course Guide



North High

Est. 1924



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Athletic Director**  
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**Assistant Principal  
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 OPS\_NorthHigh (news & events)  
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**COURSES**

## North High School History

North High School opened in September 1924 as an eighth through twelfth-grade school with 650 students. The building's first principal was Edward E. McMillian. In 1983, North became a magnet school focused on math, science, and technology. In 1993, the school completed a \$20 million renovation that included the Viking Center, the library renovation, and the addition of the multipurpose physical education and athletics facility. In the early 2000s, North shifted its magnet focus to specialize in science, engineering, and technology. To complement this focus, in 2010, a new four-story 32,092-square foot addition was added consisting of science, media technology, engineering classrooms, lab space, and a wrestling practice room in the basement. With this addition, North became the first school in Nebraska to be certified under the Leadership in Energy and Environmental Design (LEED) for Schools, earning a silver certification. North has exclusive programs offered in OPS. North students can participate in a four-year Project Lead the Way (PLTW) pathway in Biomedical Science, Computer Science, and Engineering. North also offers a comprehensive math curriculum with multiple opportunities for college credit and advanced coursework. As part of the district's strategic plan of action, North became a wall-to-wall academy school, offering multiple pathways under each of the three academies: Computer Science and Technology, Engineering and Design, and Science and Research. We also offer over 40 clubs and organizations available to all students, and every Viking can find a place where they belong.



## Principal's Greeting

Welcome to the North High Viking Family! We are thrilled to have you join our legacy of excellence, which continues with your unique contribution. As you begin your journey, we encourage you to explore the diverse courses offered through our Academies and pathways, allowing you to uncover and nurture your strengths and talents. In our STEM programs, you will engage in hands-on, real-world projects that will shape your outlook on future opportunities in college, career, and service.

Our Freshman Academy is designed to provide strong support as you transition into high school, offering the chance to explore our STEM Academies and embark on a well-rounded and purposeful academic path. You will have the opportunity to cultivate new skills and showcase your knowledge through innovative projects and experiential learning within your chosen pathways.

At North High, every student will have access to top-tier core courses, including Honors, AP, and Dual Enrollment options. Additionally, our exceptional counseling and advising services are here to support your academic, social, emotional, and behavioral growth throughout your high school years.

We are excited to work alongside students, families, and community partners to ensure that all of our students are well-prepared for lifelong success. We truly believe, and you will soon experience firsthand, that North High is the **#Place2be!**



## Mission Statement

The mission of North High School is to prepare all students for success in lifelong studies and careers.

## Vision Statement

The vision statement of North High School is to provide a quality educational opportunity for all learners in a safe, secure, and well-organized learning environment, where students, staff and community are valuable and equitable members of a positive atmosphere that fosters lifelong learning skills.







# Omaha Public Schools Graduation & College Entrance Requirements

OMAHA PUBLIC SCHOOLS GRADUATION REQUIREMENTS	
SUBJECT	CREDITS
<b>ENGLISH</b>	<b>8 CREDITS</b> Grade 9 – English 1 & 2 Grade 10 – English 3 & 4 Grade 11 – English 5 & 6 Grade 12 – English 7 & 8
<b>SOCIAL STUDIES</b>	<b>7 CREDITS</b> Grade 9 – U.S. History 1 & 2 Grade 10 – Human Geography & Intro to Economics Grade 11 – World History 1 & 2 Grade 12 – American Government
<b>MATHEMATICS</b>	<b>6 CREDITS</b> Grade 9 – Math as Recommended Grade 10 – Math as Recommended Grade 11 – Math as Recommended
<b>SCIENCE</b>	<b>** 6 CREDITS</b> Grade 9 – Physical Science 1 & 2 Grade 10 – Biology 1 & 2 Grade 11 – Science Elective
<b>PHYSICAL EDUCATION</b>	<b>4 CREDITS</b>
<b>HUMAN GROWTH &amp; DEVELOPMENT</b>	<b>1 CREDIT</b>
<b>PERSONAL FINANCE</b>	<b>1 CREDIT</b> Grade 12 – Personal Finance
<b>COMPUTER SCIENCE AND TECHNOLOGY</b>	<b>1 CREDIT</b> Not required for 2025 & 2026 Graduating Classes
<b>ELECTIVES</b>	<b>16 CREDITS</b> – 2025 & 2026 Graduating Classes <b>15 CREDITS</b> – 2027 & 2028 Graduating Classes Consider education plans and interests
<b>FAFSA</b>	Complete or opt out of FAFSA
<b>TOTAL CREDITS</b>	<b>49 CREDITS REQUIRED TO GRADUATE</b> For all OPS High Schools

## ON-TRACK TO GRADUATE

Being “on track” means you’re on the right path to graduate on time! A student’s on-track status is a key indicator in helping students understand if they will graduate on time. You are considered “on track” if you:

- Pass all required courses for your grade level.
- Earn the total number of credits listed in the chart below.

## GRADUATION REQUIREMENTS BY GRADE LEVEL

SUBJECT	Grade 9	Grade 10	Grade 11	Grade 12	Total
English	2	2	2	2	8
Social Studies	2	2	2	1	7
Math	2	2	2	–	6
Science	2	2	2	–	6
Physical Education	–	–	2	2	4
Personal Finance	–	–	–	1	1
Electives	5	4	2	6	17
<b>Total</b>	<b>13</b>	<b>12</b>	<b>12</b>	<b>12</b>	<b>49</b>

**Note:** 49 Credits are required to graduate.

*\*\* For students who have successfully completed Physical Science in 8th grade, their sequence will begin with Biology.*

*The FAFSA (Free Application for Federal Student Aid) is used to determine financial aid at colleges/universities*

## TYPICAL 4-YEAR COLLEGE ENTRANCE REQUIREMENTS

**High School Diploma or GED**

**English Courses**  
4 years

**Social Studies Courses**  
3 years

**Mathematics Courses**  
3-4 years, generally including Algebra 1-2, Geometry 1-2, and Algebra 3-4

**Science Courses**  
3 years, typically with at least one lab-based

**World Language Courses**  
2-3 years, recommended but sometimes required

**Other Requirements**  
Additional coursework, GPA, Standardized Tests (ACT/SAT), Letters of Recommendation, Extracurricular Activities, and Personal Essays may be required

*Students and parents/guardians should research the requirements of each institution they are interested in to ensure that students have selected appropriate courses and meet requirements.*

## TYPICAL 2-YEAR COLLEGE/TRADE PROGRAM ENTRANCE REQUIREMENTS

**High School Diploma or GED**

**Other Requirements**

Additional coursework, Placement Tests (ACT or other Placement Tests), Program-Specific Requirements

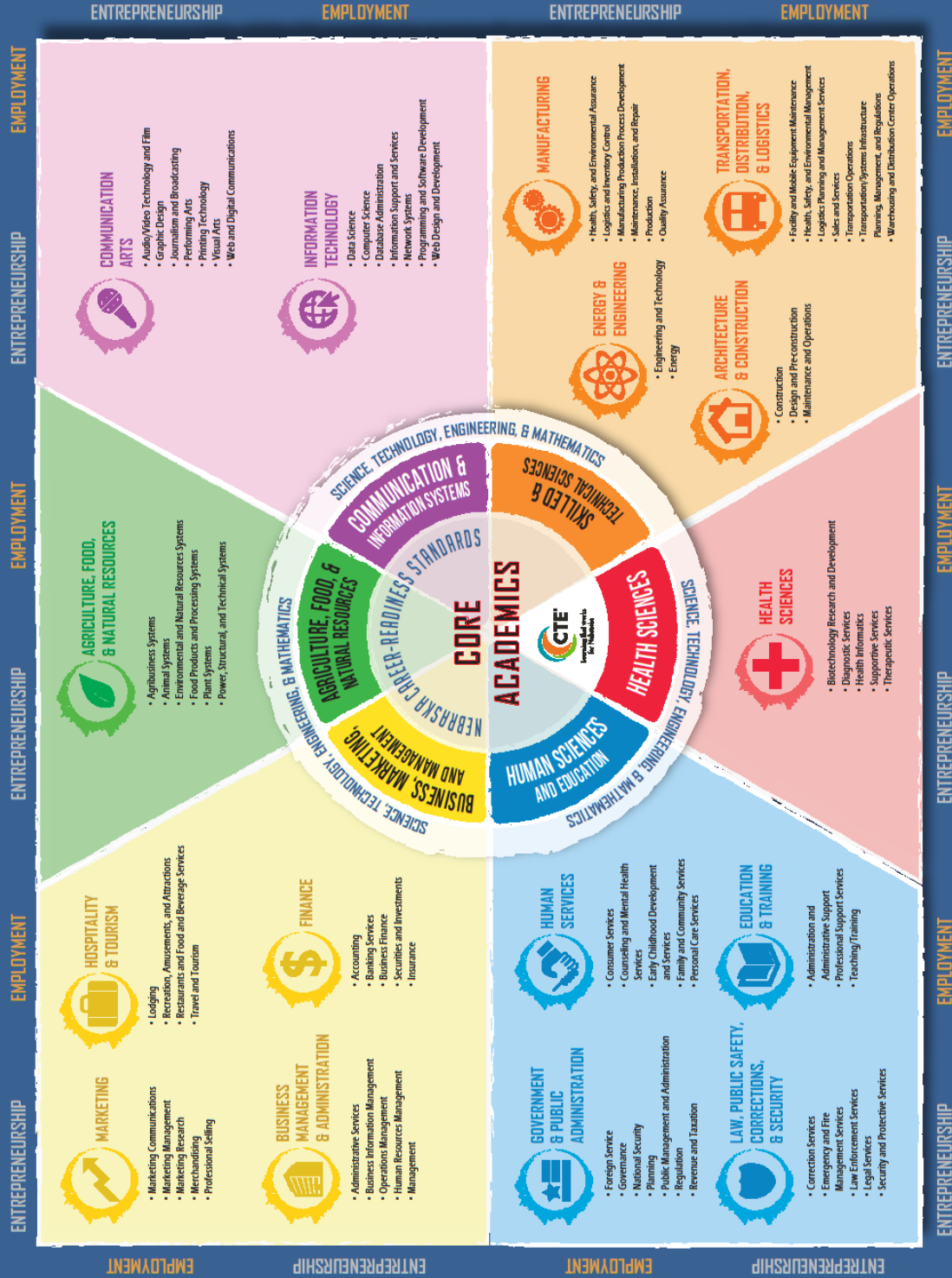
*Community colleges and trade schools often have open enrollment policies, meaning they accept all applicants who meet the basic requirements. These institutions offer more flexible and accessible options for students looking to enter the workforce quickly or explore specific trades without committing to a 4-year degree program. Requirements depend on the institution, so it's essential to check with the specific school you are interested in.*

Omaha Public Schools does not discriminate on the basis of race, color, national origin, religion, sex (including pregnancy), marital status, sexual orientation, disability, age, genetic information, gender identity, gender expression, citizenship status, veteran status, political affiliation or economic status in its programs, activities and employment and provides equal access to the Boy Scouts and other designated youth groups. The following individual has been designated to accept allegations regarding non-discrimination policies: Superintendent of Schools, 3215 Cuming Street, Omaha, NE 68131 (531-299-9822). The following persons have been designated to handle inquiries regarding the non-discrimination policies: Director of Equity and Diversity, 3215 Cuming Street, Omaha, NE 68131 (531-299-0307).





# NEBRASKA CAREER & TECHNICAL EDUCATION MODEL

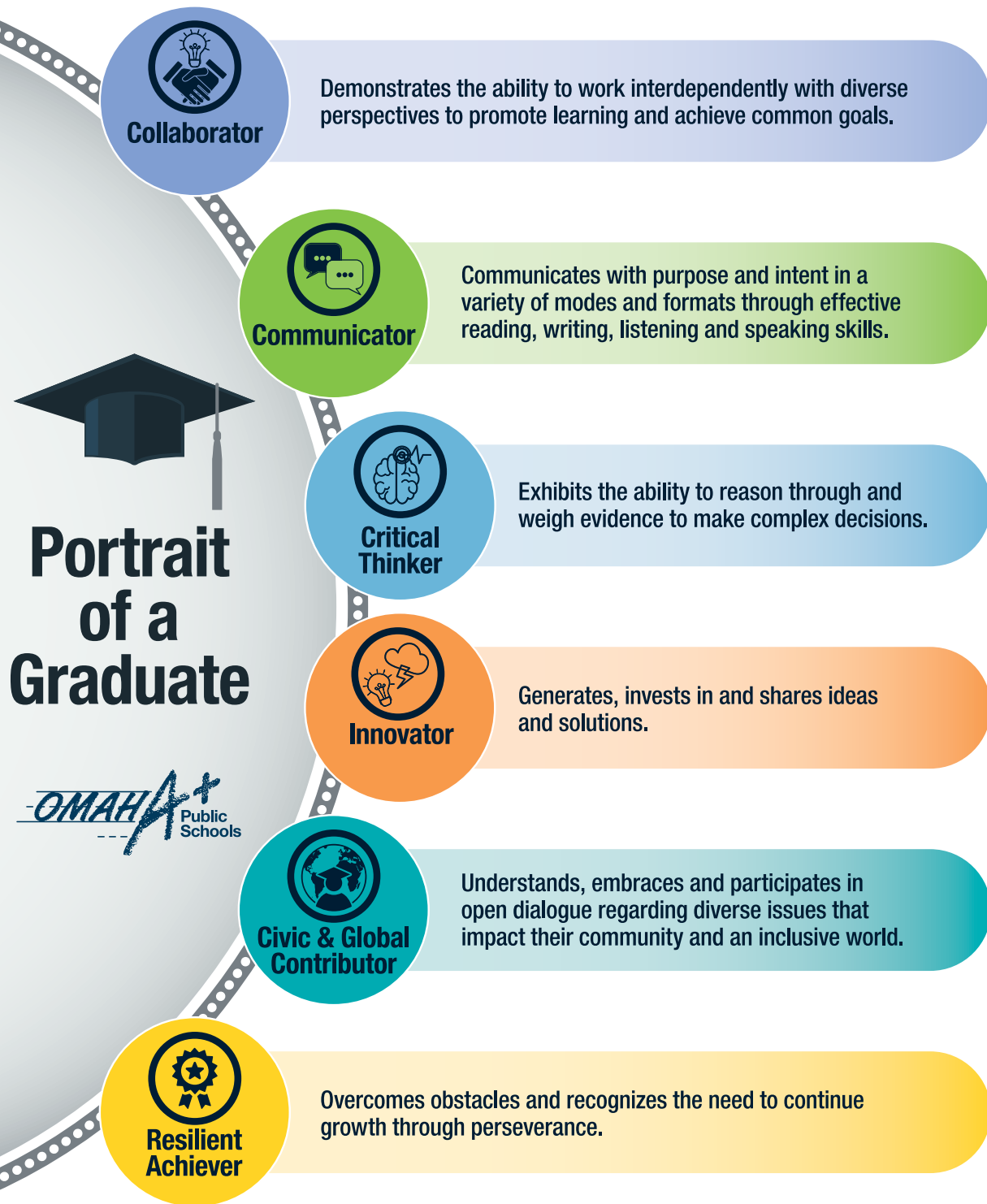


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[www.CTEstandards.education.ne.gov](http://www.CTEstandards.education.ne.gov)



# GENERAL OVERVIEW

## Registration

Students register in the spring for the following year. A student will have two opportunities to select courses:

1. Students select and finalize courses during spring registration.
2. Following spring registration, students can adjust courses based on conflicts in their schedules.

Course changes after the spring are only allowed under the following circumstances:

1. If a course was completed during summer school.
2. If a course that was failed during the previous school year.
3. If there is a schedule conflict that cannot be adjusted without dropping or changing a course.
4. If a student needs to meet graduation requirements.

**Course offerings are based on requests made. Most courses have a minimum enrollment requirement. Those courses not meeting the requirement may be cancelled. Enrollment may be capped based on staff availability.**

## Grade Level Placement

Credits are earned at the end of each semester for courses passed. Students are encouraged to adopt a program plan that includes sufficient courses to earn a minimum of 7 credits per semester. This allows the student to take maximum advantage of the learning opportunities offered by Omaha North High School. To be on track toward graduation:

**Grade 10 Placement (Sophomore)**..... Earned at least 13 credits in grade 9

**Grade 11 Placement (Junior)** ..... Earned at least 25 credits in grades 9 and 10

**Grade 12 Placement (Senior)**..... Earned at least 42 credits in grades 9, 10, and 11

## Typical Schedule Of Required Classes

This is just an example. Individual student schedules will vary, and this does not include elective/academy courses, special education courses, EL courses, or honors classes. Math and Science classes are dependent upon the level achieved in middle school.

*\*See pg. 7 for the Computer Science & Technology requirement starting with the graduating class of 2027.*

	9th Grade	10th Grade	11th Grade	12th Grade
<b>English</b>	English 1-2	English 3-4	English 5-6	English 7-8
<b>Social Studies</b>	U.S. History 1-2	Geography Intro to Economics	Modern World History	American Government
<b>Science</b>	Physical Science 1-2	Biology 1-2	Required Science Elective	Science Elective
<b>Math</b>	Algebra 1-2	Geometry 1-2	Algebra 3-4	Pre-Calc/Trig
<b>P.E.</b>	Any Physical Education Course	Any Physical Education Course		
<b>Advisement</b>	Viking Time	Viking Time	Viking Time	Viking Time
<b>Other</b>		Human Growth Foundations of Computing		Personal Finance
<b>CCAP</b>	Freshman Seminar	Pathway Class	Pathway Class	Pathway Class

## Computer Science & Technology Requirement

Starting in the 2024-2025 school year, Omaha Public School will require students in the graduating Class of 2027 and beyond to earn one credit in computer science for graduation. Students must take one of the below classes to meet the new computer science graduation requirement in grades 10, 11, or 12.

### FOUNDATIONS OF COMPUTING 1

131691

Foundations of Computing I focuses on computer literacy, educational technology, digital citizenship, information technology, and computer science. Students will develop a greater understanding of the digital presence, as well as the impact of computing in society. Beyond learning the fundamentals of programming students build computational-thinking skills, communication skills, and productivity skills through the use of collaborative tools, modeling, and simulations. **(1 semester)**

### \*PLTW AP COMPUTER SCIENCE PRINCIPLES 2

131332

Using Python® as a primary tool and incorporating multiple platforms and languages for computation, this course aims to develop computational thinking, generate excitement about career paths that utilize computing, and introduce professional tools that foster creativity and collaboration. Computer Science Principles helps students develop programming expertise and explore the workings of the Internet. Projects and problems include app development, visualization of data, cybersecurity, and simulation. PLTW is recognized by the College Board as an endorsed provider of curriculum and professional development for AP® Computer Science Principles (AP CSP). This endorsement affirms that all components of PLTW CSP's offerings are aligned to the AP Curriculum Framework standards and the AP CSP assessment. Concurrent enrollment in college preparatory mathematics course. **(Students must sign up for the full year class \*PLTW AP Computer Science Principles 1-2; the 2nd semester of this class fulfills the graduation requirement)**

## Course Drop Guidelines

Dropping a course after the first 15 days of the semester will result in a grade of "F," which is included in grade point average calculations. Requests to drop a course will be initiated by the student or parent/guardian by the school counselor.

### Procedures for withdrawing from a course:

1. Conversation with the teacher
2. Counselor conferencing with teacher and student
3. Problem-solving with all affected parties

The first step is to navigate through the schedule change. If it is determined that other faculty need to be included, please use the "Schedule Change/Request to Drop a Course" form. Please see School Counseling for a copy of the OPS "Schedule Change/Request to Drop a Course" form. Use the "Schedule Change/Request to Drop Course".

## Credit Recovery Guidelines

The purpose of Credit Recovery is to provide opportunities for students to earn credits to meet graduation requirements for courses they have failed. Credit Recovery involves the student retaking failed course(s) and focusing on the course content standards to demonstrate proficiency on district assessments. The focus is on the proficiency related to course content standards, not seat time.

- Credit Recovery may be delivered in various methods and during a variety of times (e.g., Next Level Learning, Edmentum time).
- Credit Recovery may be delivered in a traditional classroom or through a blended learning experience (in class with an endorsed teacher using online learning modules).
- Teachers who provide credit recovery through online virtual or blended learning must be certified educators endorsed for the course they are teaching.
- Although students may complete online courses before the end of the term, final grades will need to be posted during the standard grading windows.
- The student should follow the appropriate course sequencing.
- Students should not be enrolled in consecutive courses simultaneously (English 1 & English 2).
- Any exception to the six-course limit must be identified in an individual learning plan, in an alternative program, and approved by the Chief Academic Officer for Curriculum Instruction and Support.
- Students should be enrolled in no more than three online courses at a time.
- Timely teacher content and feedback is essential for student learning.
- Review the Edmentum Credit Accrual and Recovery Practices Handbook for specific guidelines for online practices.





# What every student needs to know about grading

## OPS Grading Scale



<b>A</b>	<b>=</b>	<b>3.26 - 4.00</b>
<b>B</b>	<b>=</b>	<b>2.51 - 3.25</b>
<b>C</b>	<b>=</b>	<b>1.76 - 2.50</b>
<b>D</b>	<b>=</b>	<b>1.01 - 1.75</b>
<b>F</b>	<b>=</b>	<b>0.00 - 1.00</b>

How much time should I spend on homework?



You should expect ten minutes (or more) per day times your grade level.

- 3rd grade = 30 minutes
- 6th grade = 1 hour
- 12th grade = 2 hours

*Time may vary depending on classes.*

### Can I redo my work for full credit?

- Students may be allowed to redo/revise work until the end of the unit, based on teacher's professional judgement and evidence. Talk with your teacher.

### If I don't turn in my work on time, what happens?

- Work not turned in at all will be recorded in Infinite Campus (district grade book) as an M for missing which calculates to a score of zero.

### Am I allowed to turn in coursework late?

- Late coursework may be accepted for full credit until the end of the unit based on the teacher's professional judgment and evidence collected throughout the unit.
- Accepted late work will replace M with the score earned by the student.

### Are some assignments worth more than others? \*Secondary only.

- When entering grades in the grade book, teachers may assign greater weight to some major summative assignments.
- For example, the final exam may impact a student's summative grade more than a unit test.
- This information will be communicated to students prior to the day of the assessment.

How can I check my grades?



### Campus Mobile Portal for Parents and Students

Parents and students can now access their Campus Portal information on Android and iOS devices using the Campus Mobile Portal app.



- Daily Planner**  
View today's schedule and assignments due for each class.
- Assignments**  
Browse you assignments by special by specific class or due date.
- Attendance**  
Review attendance events in summary and detail form.
- Grades**  
Know your grades now. Forget about end-of - term report cards to know how you're doing.
- Food Services**  
OPS does not use the The Food Service feature in this application. To check your child's account balance, see the SchoolCafe on the OPSHome page.

### Where to Download the Campus Mobile Portal App

The Campus Mobile Portal can be downloaded through the Apple App Store, Google Play Store or Amazon Appstore.



### How to Sign In

In order to connect your device to our district's Infinite Campus server, you need to enter

**Our District ID : Omaha Public Schools**

Continue by entering your username and password you use on the web portal.

If you do not have a username and password, contact your school.

If you forgot your username or password go to:

<https://campus.ops/campus/portal/ops.jsp>

# Omaha Public Schools

## Common Grading Practices



*How will mastery be evaluated?*

**35%**  
Weight for  
Formative  
Assessment



**65%**  
Weight for  
Summative  
Assessment

Formative: 35%

Summative: 65%

**STANDARDS** are what you should know and be able to do.

**GRADING** measures how well students master key concepts (or standards).



*What is a rubric?*

It explains what an Advanced, Proficient, or Basic level of mastery is needed for a specific assignment, test, or project.

### Formative Assessments - during learning

- Lets your teacher know how well you are learning the standards
- 35 percent of your grade
- Work done in class, e.g., homework assignments, short quizzes, or any essay
- Can happen in class or outside of class

### Summative Assessments - at the end of learning

- Lets your teacher know how well you have mastered the standards
- 65 percent of your grade
- Major projects, a unit test, a research paper, a speech, etc.
- Can happen in class or outside of class.

If I work with a group on a project, do we all get the same grade?

No. Work done in groups will be graded individually. Group grades are never used.

*How do I earn grades on an assessment?*

Teachers assess multiple levels of learning K - 12. Secondary teachers create leveled formative and summative assessments.

(Advanced, Proficient, Basic)

**ADVANCED** is when you did all the work and exceed what you're supposed to do.

⇒ You have performed consistently at a high level of difficulty, complexity, or fluency that is above the expected course content/grade level standard.

**PROFICIENT** is when you did what you are supposed to do.

⇒ You have performed at the level of difficulty, complexity, or fluency that is at the expected course content/grade level standard.

**BASIC** is when you understand the content information and vocabulary.

⇒ You have performed at the level of difficulty on some of the expected course content/grade level standards, but not all.







## Dual Enrollment Program

Dual Enrollment provides high school students the opportunity to take college-credit bearing courses taught by college-approved high school teachers in the student's home high school building. The term 'Dual Enrollment' means a program offered by a partnership between at least one institution of higher education and at least one local educational agency through which a secondary school student who has not graduated from high school with a regular high school diploma is able to enroll in one or more postsecondary courses and earn postsecondary credit that—

- (A) is transferable to the institutions of higher education in the partnership; &
- (B) applies toward completion of a degree or recognized educational credential as described in the Higher Education Act.

Students gain exposure to the academic challenges of college while in their supportive high school environment, earning transcribed college credit at the time they successfully pass the course. Essentially, dual enrollment prepares students for success in college and careers by increasing access to higher education, lowering the cost of college, and shortening student time to earning a degree or certification.

Dual Enrollment is currently offered in Omaha Public Schools through two primary programs:

- 1) **Gifted and Talented Education (GATE)**
  - a. **Advanced Placement (AP) and/or International Baccalaureate (IB)**
- 2) **Career Education (CE).**
  - a. **Connected to a Pathway or Academy plan of study**

### Dual Enrollment Benefits

**Reduced Tuition Cost.** Students and families will fill out the Educational Benefits Form (EBF)\* each school year to determine if they qualify for FREE dual enrollment tuition through the Access College Early (ACE) scholarship program authorized by the Nebraska State Legislature.

**MCC:** \$50.00\*\* per course.

**UNO:** \$250.00\*\* per course.

**Midland University:** \$250.00\*\* per course.

\*Students and families must apply for EBF each year. Students and families will also apply for ACE, each term and to each university, for possible funding support for 25-26 school year.

\*\*Tuition and fees are determined by the postsecondary institution.

Omaha Public Schools provides the textbook and all course materials necessary for completion of the dual enrollment course. Tuition payment is the responsibility of the student. If a student qualifies for federal needs-based programs, determined through EBF, they may be eligible for FREE tuition. The ACE scholarship program pays mandatory tuition fees for qualified high school students to enroll in dual enrollment courses. The basic criteria for high school students to qualify for the ACE scholarship is their eligibility status to receive assistance under a variety of federal programs and determined by the Educational Benefits Form. Students must work with a building official or counselor to complete the online ACE application. More information on ACE can be found at <http://ccpe.state.ne.us/publicdoc/ccpe/Financial%20Aid/ACE/>

**Credits Transfer.** Students begin creating an official college transcript with participation in a dual enrollment course. College institutions determine the transferability of credit, but typically credits transfer as follows:

**AP Courses:** transfer as general education requirements in either humanities, social sciences, natural sciences, or mathematics to 4-year/2-year institutions

**CE courses:** transfer as required credits at the issuing institution towards an associate's degree or certification, or to a similar 2-year institution with like programming, or may transfer as elective credits at 4-year institutions.

Students should request transcripts from any college he/she has earned dual enrollment credit with and provide them to the college/university during the admission process. It is the student's responsibility to disclose any college credit earned during high school, whether from an AP or CE dual enrollment course, to their college advisor.

## AP & Dual Enrolled Courses

### Advanced Placement

The Advanced Placement (AP) program in the Omaha Public Schools offers high school students the opportunity to take college-level courses in a high school setting. For over fifty years, students in the school district have participated in the AP program to gain higher-level academic skills and earn college credit while still in high school. Successful completion of AP Exams offers the opportunity to earn college credit and financial savings for families on courses traditionally taken in college freshman and sophomore years. Participation in the AP program gives students college-level experience while still in high school.

### Advanced Placement College Board Courses

AP African American Studies  
 AP Studio Art 2D  
 AP Studio Art 3D  
 AP Biology  
 AP Calculus AB  
 AP Calculus BC  
 AP Chemistry  
 AP Computer Science A  
 AP Computer Science Principles  
 AP English Language & Composition  
 AP English Literature & Composition

AP Environmental Science  
 AP Human Geography  
 AP Physics I  
 AP Physics II  
 AP Precalculus  
 AP Psychology  
 AP Research  
 AP Seminar  
 AP Statistics  
 AP US Government & Politics  
 AP United States History  
 AP World History: Modern

### Dual Enrolled Courses



<b>AP Biology</b> <b>AP Calculus AB</b> <b>AP Calculus BC</b> <b>AP Comparative Government</b> <b>AP Computer Science A</b> <b>AP Computer Science Principles</b> <b>AP English Literature &amp; Composition</b> <b>AP Environmental Science</b> <b>AP Human Geography</b> <b>AP Physics I</b> <b>AP Physics II</b> <b>AP Statistics</b> <b>AP US Government &amp; Politics</b> <b>AP World History: Modern</b> <b>H Management and Leadership</b> <b>Honors Anatomy &amp; Physiology</b> <b>Honors Calculus 3</b> <b>Honors Cybersecurity</b> <b>Honors Differential Equations</b> <b>Introduction to Medical Terminology</b> <b>Principles of Education &amp; Training</b>	<b>Advanced Robotics Concepts 5-6</b> <b>AP English Language &amp; Composition</b> <b>CAD/Design Engineering</b> <b>College Algebra*</b> <b>Honors Technical Communication</b> <b>Industrial Safety and Health</b> <b>Machine Tool 1</b> <b>Machine Tool 2</b> <b>Machine Tool 3</b>  <b>Mechanical Blueprint</b> <b>Mechanical Design 1-2</b> <b>Principles of Machining</b>
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\*Asterisk next to course name indicates course advanced academic opportunity through Advanced Placement, dual enrollment, or both.

## Course Placement Appeals

All Secondary Omaha Public Schools offer procedures for appealing course placement (i.e. AP Honors, IB, etc.). Each building may have specific forms and deadlines; however, the following general procedures shall apply:

**Level One:** Counselor, Curriculum Specialist, Data Assistant Principal, and or Principal

A student or parent with a course placement appeal may first discuss the matter with the counselor, curriculum specialist or Data Assistant Principal, with the object of resolving the matter informally.

**Level Two:** Chief Academic Officer Curriculum and Instruction and Support

If, after appealing to Level One is not resolved and the individual still wishes to pursue the appeal, he/she may formalize the appeal in writing addressed to the Chief Academic Officer Curriculum and Instruction and Support at 3215 Cuming Street, Omaha, NE 68131.

**Level Three:** Superintendent

If the appeal is not resolved at Level Two and the individual still wishes to pursue the appeal, he/she may formalize the appeal to the superintendent of schools after receiving a written response from the Chief Academic Officer Curriculum and Instruction and Support.

These steps shall be taken in a timely manner to accommodate course selections for the school year in question.

## Grade Point Average (GPA)

GPA is computed by dividing total grade points earned by credits attempted. All graded courses are included in this computation. Pluses and minuses are not calculated in GPA. To determine grade points, courses are weighted as follows:

Grade	Honors & AP Course	All Other Courses	<b>Points earned for a full credit (Half credit courses divided by 2)</b>
<b>A</b>	<b>5</b>	<b>4</b>	
<b>B</b>	<b>4</b>	<b>3</b>	
<b>C</b>	<b>3</b>	<b>2</b>	
<b>D</b>	<b>2</b>	<b>1</b>	
<b>F</b>	<b>0</b>	<b>0</b>	

Class Rank is determined by cumulative or total GPA. The student with the highest GPA in the class is ranked 1st, the second highest is ranked 2nd and so on. Final rank is based on grades earned in grades 9-12.

## Honor Roll

### Eligibility:

- maintain a 3.0 minimum GPA,
- be enrolled in 4 or more courses, and
- not receive an "F" in any current semester course.

### Honor Roll Levels:

- Viking High Honor (4.0 or higher)
- Viking Medallion (3.50 to 3.99)
- Viking Achievement (3.00 to 3.49)



## Early Graduation

### Eligibility:

- Only students in their third year of high school may apply for early graduation.
- Only students who have earned a minimum of 33 credits by January of their junior year are eligible to apply for January graduation in their senior year.
- Students needing summer school or any credit recovery following the application submission deadline are not eligible.

### Application Process:

- Parent/guardian must conference with their student's assigned counselor prior to applying for early graduation.
- Students must submit the completed application during the annual spring registration process. The deadline to submit is the last day prior to Spring Break.
- A conference will be held with the student's assigned counselor, building principal, and data administrator to review recommendation. The principal has final approval, and a counselor will verify that all OPS requirements have been completed.

### Points to Consider:

- Early graduates will not be considered for senior class honors, National Honor Society, or any scholarships awarded by the High School Scholarship Committee.
- Seniors planning to attend a four-year university remove themselves from convenient access and support with the scholarship application process.
- Most colleges prefer that high school students complete the entire senior year to take advantage of rigorous high school course work that prepares them for a successful transition to college.
- Students involved in athletics, activities, and advanced course work in areas of interest are advised to complete their last year in those programs.
- There is no commencement ceremony in January. Parents need to indicate whether or not their students will participate in May ceremonies to receive diploma.

## Shortened Day

### Eligibility and Procedures:

- Available for students in 11TH/12TH GRADE STATUS ONLY.
- Earn passing grades in all core classes (English, social studies, math or science) the previous semester.
- Earn an overall 2.00 GPA.
- Eligible for a maximum of 1 block daily.
- Counselor will give student a request card that must be signed by a parent or guardian.
- Exceptions to the stated policy will be granted only by the student's administrator.
- Students who fail to leave the building and/or grounds after their early release will face disciplinary action.
- Students must have their own transportation.

Students should consider the opportunities, both in the classroom and in co-curricular activities, which are missed by opting for a shortened day.





## Co-Curricular Activities

Co-Curricular activities are an important part of your educational experience. Participate in the activities, clubs, and/or sports that are of interest to you. Co-Curricular activities that are available at North High School include the following:

### Clubs/Activities

- Academy Student Advisory Boards
- African American History Challenge
- Bands of North
- Black Student Leadership Council [BSLC]
- Cheerleading
- Chess Club
- Clay Club
- Color Guard for Marching Band
- D&D Club
- DECA
- Drama Club
- Educators Rising
- French Club
- Future Business Leaders of America [FBLA]
- Gender Sexuality Alliance [GSA]
- German Club
- HOSA - Future Health Professionals
- JROTC Color Guard, Drill, Marksmanship, Rifle & Saber Teams
- Junior Class Officers
- Latino Leaders
- Math Club & Mathematics [Mu Alpha Theta]
- National Honor Society [NHS]
- National Society of Black Engineers [NSBE]
- Newspaper-The North Star
- North Drill Team
- A Novel Idea: North High Book Club
- Omega sQuires
- Orchestra Music
- Outdoor Club
- Pep Club
- Potato Club
- Powerlifting Club
- Principal's Student Advisory
- PTSO
- Robotics
- Science Bowl
- Science Olympiad Club
- Senior Class Officers
- SkillsUSA
- Speech and Debate
- Student Ambassadors
- Student Council
- Vocal Music
- Work2BeWell Club

**\*Clubs are subject to change each year**

### Athletics

#### FALL

- Cross Country – Boys & Girls
- Football
- Golf – Girls
- Softball
- Tennis – Boys
- Unified Bowling – Boys & Girls
- Volleyball

#### WINTER

- Basketball – Boys & Girls
- Bowling – Boys & Girls
- Swimming – Boys & Girls
- Wrestling – Boys & Girls

#### SPRING

- Baseball
- Golf – Boys
- Soccer – Boys & Girls
- Tennis – Girls
- Track & Field – Boys & Girls
- Unified Track & Field – Boys & Girls



# Division I Academic Standards

**Division I schools** require you to meet academic standards. To be eligible to practice, compete and receive an athletics scholarship in your first year of full-time enrollment, you must meet the following requirements:



1. Earn 16 NCAA-approved core-course credits in the following areas:

ENGLISH	MATH (Algebra I or higher)	SCIENCE (Including one year of lab, if offered)	EXTRA (English, math or science)	SOCIAL SCIENCE	OTHER Any area listed to the left or courses listed in additional discipline (world language, comparative religion or philosophy)
4 years	3 years	2 years	1 year	2 years	4 years

2. Complete your 16 NCAA-approved core-course credits in eight academic semesters or four consecutive academic years from the start of ninth grade. If you graduate from high school early, you still must meet core-course requirements.
3. Complete 10 of your 16 NCAA-approved core-course credits, including seven in English, math or science, before the start of your seventh semester. Once you begin your seventh semester, any course needed to meet the 10/7 requirement cannot be replaced or repeated.
4. Earn a minimum 2.3 **core-course GPA**.
5. Ask your high school counselor to upload your **final official transcript** with proof of graduation to your Eligibility Center account.

## EARLY ACADEMIC QUALIFIER

If you meet **specific criteria** after six semesters of high school, you may be deemed an early academic qualifier for Division I and may practice, compete and receive an athletics scholarship during your first year of full-time enrollment.

## QUALIFIER

You may practice, compete and receive an athletics scholarship during your first year of full-time enrollment.

## ACADEMIC REDSHIRT

You may practice during your first regular academic term and receive an athletics scholarship during your first year of full-time enrollment but may NOT compete during your first year of full-time enrollment. You must pass either eight quarter or nine semester hours to practice in the next term.

## NONQUALIFIER

You will not be able to practice, compete or receive an athletics scholarship during your first year of full-time enrollment.



GRADE

9

REGISTER

- » If you haven't yet, **register** for a free Profile Page account at [eligibilitycenter.org](https://eligibilitycenter.org) for information on NCAA initial-eligibility requirements.
- » Use NCAA Research's **interactive map** to help locate NCAA schools you're interested in attending.
- » Find your high school's list of NCAA-approved core courses at [eligibilitycenter.org/courselist](https://eligibilitycenter.org/courselist) to ensure you're taking the right courses, and earn the best grades possible!

GRADE

10  
PLAN

- » If you're being actively recruited by an NCAA school and have a Profile Page account, **transition** it to the required **certification account**.
- » Monitor the **task list** in your NCAA Eligibility Center account for next steps.
- » At the end of the school year, ask your high school counselor from each school you attend to upload an official transcript to your Eligibility Center account.
- » If you fall behind academically, ask your high school counselor for help finding **approved courses** you can take.

GRADE

11  
STUDY

- » Ensure your **sports participation** information is correct in your Eligibility Center account.
- » Check with your high school counselor to make sure you're on track to complete the required number of NCAA-approved **core courses** and graduate on time with your class.
- » Share your **NCAA ID** with NCAA schools recruiting you so each school can place you on its **institutional request list**.
- » At the end of the school year, ask your high school counselor from each school you attend to upload an official transcript to your Eligibility Center account.

GRADE

12  
GRADUATE

- » **Request your final amateurism certification** beginning April 1 (fall enrollees) or Oct. 1 (winter/spring enrollees) in your Eligibility Center account at [eligibilitycenter.org](https://eligibilitycenter.org).
- » Apply and be accepted to the NCAA school you plan to attend.
- » Complete your final NCAA-approved **core courses** as you prepare for graduation.
- » After you graduate, ask your high school counselor to upload your final **official transcript** with proof of graduation to your Eligibility Center account.

How to plan your high school courses to meet the 16 core-course requirement:

**4 x 4 = 16**

**9<sup>th</sup> GRADE**

(1) English  
(1) Math  
(1) Science  
(1) Social Science and/or other

**4 CORE COURSES**

**10<sup>th</sup> GRADE**

(1) English  
(1) Math  
(1) Science  
(1) Social Science and/or other

**4 CORE COURSES**

**11<sup>th</sup> GRADE**

(1) English  
(1) Math  
(1) Science  
(1) Social Science and/or other

**4 CORE COURSES**

**12<sup>th</sup> GRADE**

(1) English  
(1) Math  
(1) Science  
(1) Social Science and/or other

**4 CORE COURSES**

**CONTACT THE NCAA ELIGIBILITY CENTER**

U.S. and Canada (except Quebec):  
877-262-1492 (toll free), Monday-Friday  
9 a.m. to 5 p.m. Eastern time  
International (including Quebec):  
[on.ncaa.com/IntlContact](https://on.ncaa.com/IntlContact)



[@ncaaec](https://twitter.com/ncaaec) [@ncaaec](https://www.youtube.com/channel/UCncaaec) [@ncaaec](https://www.facebook.com/ncaaec) [@playcollegesports](https://www.instagram.com/playcollegesports)



ELIGIBILITY CENTER



**METROPOLITAN**  
Community College

**CAREER ACADEMY PROGRAMS  
2025-2026**

MCC's Career Academy program is designed to provide high school juniors and seniors with opportunities to jumpstart their postsecondary education. MCC Career Academies increase student knowledge in various career fields prior to high school graduation, so more informed career choices can be made. Through a MCC Career Academy, students gain practical skills for specific career areas, knowledge of safety procedures, job-seeking skills, interpersonal skills for the workplace, and exposure to a college environment.

**CAREER ACADEMIES BY LOCATION - \*\* INDICATES 2<sup>ND</sup> YEAR AVAILABLE**

**FORT OMAHA CAMPUS**

- Architecture
- Civil Engineering
- Construction Technology\*\*
- Culinary Arts
- Data Science
- Electrical Technology\*\*
- Heating Air and Refrigeration\*\*
- Horticulture, Land Systems and Management
- Pre-Apprenticeship Plumbing
- Web and Mobile App Development\*\*
- Welding Technology\*\*

**SOUTH OMAHA CAMPUS**

- Accounting
- Automotive Collision\*\*
- Automotive Technology
- Advanced Manufacturing\*\*
- Business Transfer\*\*
- Certified Nursing Assistant (CNA)
- Emergency Medical Technician (EMT)
- IT Technician - Cyber Security\*\*
- Powersports and Outdoor Equipment

**ELKHORN VALLEY CAMPUS**

- Digital Cinema/Filmmaking
- Photography

**SARPY CENTER**

- Business Transfer\*\*
- Criminal Justice
- Human Services

**APPLIED TECHNOLOGY CENTER**

- Diesel Technology\*\*
- Fire Science\*\*

**ONLINE**

- 3-D Animation and Games

**\*CAREER ACADEMY OFFERINGS AND LOCATIONS SUBJECT TO CHANGE**

***To Apply for a Career Academy:***

Applications are available December 2, 2024 from your high school counselor, and online at [www.mccneb.edu/careeracademy](http://www.mccneb.edu/careeracademy). All applicants must complete an application for MCC prior to submitting their Career Academy application. Application can be completed at [www.mccneb.edu/apply](http://www.mccneb.edu/apply).

Please submit the application to [secondarypartnerships@mccneb.edu](mailto:secondarypartnerships@mccneb.edu).

**Application Deadline: March 7, 2025**

**QUESTIONS:**

If you have questions about the MCC Career Academy Program, please contact one of the following:

- Your high school counselor
- Secondary Partnerships 531-MCC-2213 or [secondarypartnerships@mccneb.edu](mailto:secondarypartnerships@mccneb.edu)



North High  
Est. 1924



North High  
**FRESHMAN  
ACADEMY**

# Freshman Academy

## Freshman Academy

The Freshman Academy structure is designed to ensure academic success for all freshman by implementing learning activities that are relevant, rigorous, embed literacy, recognize cultural diversity, prepare students for college and career readiness, and build leadership skills in all curricular areas.

Academy Courses					
	English	Science	Math	Social Studies	Elective
<b>Required Freshman Courses</b>	English 1-2 (H)	Physical Science (H) or Biology (H)	Algebra 1-2 or Geometry 1-2 (H)	US History (H) or AP US History	Freshman Seminar
<b>Available Exploratory Electives</b>	Art, Vocal Music, Instrumental Music, World Languages, JROTC, Journalism, Physical Education, Omaha History, African American History, Sociology, Women's History, or any first-year Career Academy Pathway course				

### Suggested Activities:

African American History Challenge, Athletics, Arty Club, Bands of North, Black Student Leadership Council, Cheerleading, Chess Club, Clay Club, Culture Club, French Club, Plays and Musicals, Principal's Advisory, Robotics, Skills USA, Science Club, Science Olympiad, Student Advisory Boards, Student Council

**Available Advanced Placement and Dual: Credit Opportunities:** AP Language and Comp, H Tech Comm. AP US History, AP Human Geography, AP World History, AP US Government, AP Calculus, AP Calculus BC, H. Personal Finances, AP Physics, AP Chemistry, AP Computer Science Courses, H Cybersecurity





**FRESHMAN SEMINAR****181301/181302**

This introductory course is for all freshman students that will introduce them to the high school experience by discovering school opportunities in career-based pathway and academy programming, will build a plan for their high and post-high school experiences, and will focus on learning strategies for successful transitioning into the high school environment. Students will engage in content in this course exploring the Omaha Public School Portrait of a Graduate, benchmarks of a College and Career Continuum, and Nebraska's College and Career Readiness Standards.

**Prerequisite:** None**Grade Level:** 9**Status:** Elective**Duration:** 2 semesters**ENGLISH 1-2****010341/010342**

This course focuses on the English Language Arts skills of reading, writing, speaking and listening. Students will use a variety of conceptual lenses to gain command of essential skills in written and oral communication and the reading of narrative and informational text. Students will produce a variety of writing samples in the following modes: descriptive, narrative, analytical, expository, persuasive, argumentative, and technical.

**Prerequisite:** None**Grade Level:** 9**Status:** Meets requirement**Duration:** 2 semesters**HONORS ENGLISH 1-2****010351/010352**

This course provides a more rigorous and intensive study of the language arts skills of reading, writing, speaking, and listening as described in English 1-2. Students will read a variety of narrative and informational texts and produce five required pieces in the following modes: narrative, analytical, expository, persuasive, argumentative and technical. Additional course work is required above and beyond the regular English 1-2 course.

**Prerequisite:** Successful completion of English Language Arts 8 1-2 with an A or higher OR Successful completion of Honors English Language Arts 8 1-2 with a B or higher OR MAP Reading score at or above score determined by District English Language Arts.

**Grade Level:** 9**Status:** Meets requirement**Duration:** 2 semesters**PHYSICAL SCIENCE 1-2****060501/060502**

Physical Science engages students in the three dimensions (science practices, disciplinary core ideas, and crosscutting concepts) of learning as identified by the Nebraska College and Career Ready Standards for Science. The topics include forces and interactions, waves and electromagnetic radiation, structure and properties of matter, energy, chemical reactions, space systems, weather and climate, and Earth's systems. This course provides a foundation for other science courses and meets the district requirement for Physical Science.

**Prerequisite:** None**Grade Level:** 9**Status:** Meets requirement**Duration:** 2 semesters**HONORS PHYSICAL SCIENCE 1-2****060531/060532**

Honors Physical Science engages students in the three dimensions (science practices, disciplinary core ideas, and crosscutting concepts) of learning as identified by the Nebraska College and Career Ready Standards for Science. The topics include forces and interactions, waves and electromagnetic radiation, structure and properties of matter, energy, chemical reactions, space systems, weather and climate, and Earth's systems. This course provides a foundation for other science courses and meets the district requirement for Physical Science. Students enrolled in honor courses have additional experiences that require a more rigorous program of study.

**Prerequisite:** Teacher recommendation**Grade Level:** 9**Status:** Meets requirement**Duration:** 2 semesters**BIOLOGY 1-2****060411/060412**

Biology engages students in the three dimensions (science practices, disciplinary core ideas, and crosscutting concepts) of learning as identified by the Nebraska College and Career Ready Standards for Science. The topics include structure and function, interdependent relationships in ecosystems, matter and energy in organisms and ecosystems, heredity: inheritance and variation of traits, Earth systems, history of Earth, and sustainability. This course meets the district requirement for Biology.

**Prerequisite:** Successful completion of Physical Science 1-2**Grade Level:** 10**Status:** Meets requirement**Duration:** 2 semesters



**HONORS BIOLOGY 1-2****060431/060432**

Honors Biology 1-2 engages students in the three dimensions (science practices, disciplinary core ideas, and crosscutting concepts) of learning as identified by the Nebraska College and Career Ready Standards for Science. The topics include structure and function, interdependent relationships in ecosystems, matter and energy in organisms and ecosystems, heredity: inheritance and variation of traits, Earth systems, history of Earth, and sustainability. This course meets the district requirement for Biology. Students enrolled in honors courses have additional experiences that require a more rigorous program of study.

**Prerequisite:** *Successful completion of Physical Science 1-2 with an A or Honors Physical Science 1-2 with a B or higher, or MAP Science score at or above score determined by District Science*

**Grade Level:** 10      **Status:** Meets requirement      **Duration:** 2 semesters

**PRE-ALGEBRA 1-2****040161/040162**

This course is designed to meet the needs of the student who will benefit from a transition course which bridges the similarities of arithmetic and algebra. This course will contain spiraling reinforcement of basic algebraic concepts and topics in order to prepare students for successful placement in Algebra 1-2. This course will cover the content standards for pre-algebra, including operations on real numbers, conversions among fractions, decimals, and percentages, solving linear equations and inequalities, graphing linear equations, working with polynomials, and using measures of central tendency to interpret data.

**Prerequisite:** *Teacher recommendation*

**Grade Level:** 9      **Status:** Meets requirement      **Duration:** 2 semesters

**ALGEBRA 1-2****040271/040272**

This course is a first-year algebra survey. It covers traditional algebra topics including a study of the four basic operations dealing with signed numbers and polynomials, solution of first- and second-degree equations, verbal problems, systems of linear equations, graphing and writing linear equations and inequalities, and simplifying exponential expressions.

**Prerequisite:** *None*

**Grade Level:** 9, 10, 11, 12      **Status:** Meets requirement      **Duration:** 2 semesters

**GEOMETRY 1-2****040351/040352**

This course is a complete study of geometry. Topics include congruence and similarity of figures, parallelism and perpendicularity, right triangle relationships, formal and informal proof, coordinate geometry, properties of polygons and circles, and perimeter, area, and volume of two- and three-dimensional figures.

**Prerequisite:** *Successful completion of Algebra 1-2*

**Grade Level:** 9, 10, 11, 12      **Status:** Meets requirement      **Duration:** 2 semesters

**HONORS GEOMETRY 1-2****040361/040362**

This course is the honors section of Geometry 1-2. Topics include congruence and similarity of figures, parallelism and perpendicularity, right triangle relationships, formal and informal proof, coordinate geometry, properties of polygons and circles, and perimeter, area, and volume of two- and three-dimensional figures. As an honors class, each topic will be covered in greater depth and with enrichment.

**Prerequisite:** *Successful completion of Algebra 1-2 with a B or higher, or Honors Algebra 1-2 with a B or higher, or MAP Math score at or above score determined by District Math*

**Grade Level:** 9, 10, 11      **Status:** Meets requirement      **Duration:** 2 semesters

**U.S. HISTORY 1-2****030901/030902**

United States History 1-2 explores United States history from the Progressive Era to present day. Students address the social, economic, and political development of the nation and relate it to both past and present. Instruction is organized around the themes of geography, history, economics, cultures, and the elements of citizenship. Students investigate these themes using historical thinking and primary and secondary sources.

**Prerequisite:** *None*

**Grade Level:** 9      **Status:** Meets requirement      **Duration:** 2 semesters

**HONORS U.S. HISTORY 1-2****030911/030912**

United States History 1-2 explores United States history from the Progressive Era to present day. Students address the social, economic, and political development of the nation and relate it to both past and present. Instruction is organized around the themes of geography, history, economics, cultures, and the elements of citizenship. Students investigate these themes using historical thinking and primary and secondary sources. Honors courses have additional opportunities for in-depth course work and application of historical thinking skills.

**Prerequisite:** *Successful completion of Social Studies 8 1-2 with a B or higher or MAP Reading score at or above score determined by District Social Studies*

**Grade Level:** 9      **Status:** Meets requirement      **Duration:** 2 semesters

**\*AP UNITED STATES HISTORY 1-2****030341/030342**

This course provides students with the analytical skills and factual knowledge necessary to evaluate issues and themes in United States history, examine historical evidence, and engage in critical writing. This course prepares students for the Advanced Placement American History exam. All students enrolled in an AP course are required to take either the College Board AP exam in May or an AP Alternative Assessment (exam) approved by OPS. Both exams are cumulative and cover the content of the AP curriculum.

**Prerequisite:** *Successful completion of previous honors social studies course with B or higher or teacher permission*

**Grade Level:** 9, 10, 11, 12      **Status:** Meets requirement      **Duration:** 2 semesters





North High  
Est. 1924



North High  
**COMPUTER  
SCIENCE &  
TECHNOLOGY  
ACADEMY**

# Computer Science & Technology Academy

## Computer Science & Technology Academy

The Computer Science and Technology Academy engages students in interdisciplinary activities that not only build knowledge and skills in computer science, but also empower students to develop essential skills such as problem solving, critical and creative thinking, communication, collaboration, and perseverance. The program's courses empower students with in-demand knowledge and skills they will use, in high school and for the rest of their lives, on any career path they choose.

Pathway: PLTW Computer Science, Cybersecurity and Coding, Computer Networking, and Audio Video Production.

Grade	Required Academy Courses				Suggested Academy Electives
	PLTW Computer Science	Cybersecurity & Coding	Computer Networking	Audio Video Production	
9	PLTW Computer Science Essentials	Freshman Seminar	Freshman Seminar	Freshman Seminar	Journalism Yearbook
10	PLTW Computer Science Essentials or PLTW AP Computer Science Principles	Foundations of Computing	IT Essentials 1-2	Digital Media (H) and Audio/Video Foundations	Chemistry (H), Physics 1-2 (H), AP Physics 1, AP Environmental Science
11	PLTW AP Computer Science Principles or PLTW AP Computer Science A	PLTW H. Cybersecurity 1-2	H. Networking 1-2	Audio/Video Productions 1-2	Sociology Psychology African-American History Omaha History
12	PLTW AP Computer Science A or PLTW H. Cybersecurity 1-2	H. Cybersecurity 3-4	H. Networking 3-4	Audio/Video Productions 3-4	Foreign Language Performing and Fine Arts
					Other Computer Science and Technology Academy Courses

**Career and Technical Student Organizations:** SkillsUSA

**Work-Based Learning Experience:** Round Tables, Job Shadowing, Internships. Industry Tours, Guest Speakers, Industry Interviews

**Industry Certifications:** CCNA

**Available Advanced Placement and Dual: Credit Opportunities:** AP Language and Comp, H Tech Comm. AP US History, AP Human Geography, AP World History, AP US Government, AP Calculus, AP Calculus BC, H. Personal Finances, AP Physics, AP Chemistry, AP Computer Science Courses, H Cybersecurity

# COMPUTER SCIENCE AND TECHNOLOGY ACADEMY

## PLTW COMPUTER SCIENCE PATHWAY

### \*PLTW COMPUTER SCIENCE ESSENTIALS 1-2

**131321/131322**

Computer Science Essentials exposes students to a diverse set of computational thinking concepts, fundamentals, and tools, allowing them to gain understanding and build confidence. Students use visual, block-based programming and seamlessly transition to text-based programming with languages such as Python® to create apps and develop websites and learn how to make computers work together to put their design into practice. They apply computational thinking practices, build their vocabulary, and collaborate just as computing professionals do to create products that address topics and problems important to them. Concurrent enrollment in college preparatory mathematics course.

**Prerequisite:** None

**Grade Level:** 9, 10, 11, 12

**Status:** Elective

**Duration:** 2 semesters

### \*PLTW AP COMPUTER SCIENCE PRINCIPLES 1-2

**131561/131332**

Using Python® as a primary tool and incorporating multiple platforms and languages for computation, this course aims to develop computational thinking, generate excitement about career paths that utilize computing, and introduce professional tools that foster creativity and collaboration. Computer Science Principles helps students develop programming expertise and explore the workings of the Internet. Projects and problems include app development, visualization of data, cybersecurity, and simulation. PLTW is recognized by the College Board as an endorsed provider of curriculum and professional development for AP® Computer Science Principles (AP CSP). This endorsement affirms that all components of PLTW CSP's offerings are aligned to the AP Curriculum Framework standards and the AP CSP assessment. Concurrent enrollment in college preparatory mathematics course.

**Prerequisite:** Successful completion of PLTW Comp Sci Essentials 1-2 or Foundations of Computing 1-2

**Grade Level:** 10, 11, 12

**Status:** Elective

**Duration:** 2 semesters

### \*PLTW AP COMPUTER SCIENCE A 1-2

**131571/131572**

Computer Science A focuses on further developing computational thinking skills through the medium of Android™ App development for mobile platforms. The course utilizes industry-standard tools such as Android Studio, Java™ programming language, XML, and device emulators. Students collaborate to create original solutions to problems of their own choosing by designing and implementing user interfaces and Web-based databases. This course aligns with the AP CS A course. All students enrolled in an AP course are required to take either the College Board AP exam in May or an AP Alternative Assessment (exam) approved by OPS. Both exams are cumulative and cover the content of the AP curriculum.

**Prerequisite:** Successful completion of PLTW AP Computer Science Principles 1-2

**Grade Level:** 11, 12

**Status:** Elective

**Duration:** 2 semesters

### \*PLTW CYBERSECURITY 1-2

**131581/131582**

Cybersecurity introduces the tools and concepts of cybersecurity and encourages students to create solutions that allow people to share computing resources while protecting privacy. Nationally, computational resources are vulnerable and frequently attacked; in Cybersecurity, students solve problems by understanding and closing these vulnerabilities. This course raises students' knowledge of and commitment to ethical computing behavior. It also aims to develop students' skills as consumers, friends, citizens, and employees who can effectively contribute to communities with a dependable cyber-infrastructure that moves and processes information safely.

**Prerequisite:** Successful completion of PLTW AP Computer Science 1-2

**Grade Level:** 11, 12

**Status:** Elective

**Duration:** 2 semesters

# CYBERSECURITY AND CODING PATHWAY

## FOUNDATIONS OF COMPUTING 1-2

131691/131422

Foundations of Computing focuses on computer literacy, educational technology, digital citizenship, information technology, and computer science. Students will develop a greater understanding of the digital presence, as well as the impact of computing in society. Beyond learning the fundamentals of programming students build computational-thinking skills, communication skills, and productivity skills through the use of collaborative tools, modeling, and simulations. Foundations of Computing 1 meets the Computer Science & Technology graduation requirement.

**Prerequisite:** None

**Grade Level:** 10, 11, 12

**Status:** Elective

**Duration:** 2 semesters

## \*PLTW H CYBERSECURITY 1-2

131581/131582

Cybersecurity introduces the tools and concepts of cybersecurity and encourages students to create solutions that allow people to share computing resources while protecting privacy. Nationally, computational resources are vulnerable and frequently attacked; in Cybersecurity, students solve problems by understanding and closing these vulnerabilities. This course raises students' knowledge of and commitment to ethical computing behavior. It also aims to develop students' skills as consumers, friends, citizens, and employees who can effectively contribute to communities with a dependable cyber-infrastructure that moves and processes information safely.

**Prerequisite:** Successful completion of PLTW AP Computer Science 1-2 or Foundations of Computing 1-2

**Grade Level:** 11, 12

**Status:** Elective

**Duration:** 2 semesters

## PLTW H CYBERSECURITY 3-4

131721/131722

In this course the students will continue to develop and build their cybersecurity skills and knowledge while learning advanced concepts required to recognize and potentially mitigate attacks against devices, computers, enterprise networks and mission-critical infrastructure. Students will learn current testing and vulnerability assessment techniques to measure and prevent attacks ranging from basic malware to complex web-based exploits and social engineering tactics that take advantage of people's trust. Students will recognize and evaluate real-world attacks through the use of advanced hacking techniques and methods of defense fortification using virtual labs and cyber ranges. At the same time, students will delve into topics like risk management and incident response and recovery. This course is designed to prepare students for the Certified Ethical Hacker (CEH) and/or the Security+ exam and certification.

**Prerequisite:** Successful completion of PLTW Cybersecurity 1-2

**Grade Level:** 12

**Status:** Elective

**Duration:** 2 semesters

# COMPUTER NETWORKING PATHWAY

## IT ESSENTIALS 1-2

130101/130102

This course covers the fundamentals of computer and mobile device hardware and software, and advanced concepts such as security, networking, and the responsibilities of an IT professional. Students who complete this course will be able to describe the internal components of a computer, assemble a computer system, install operating systems, and troubleshoot them using software tools and diagnostics. Students will also be able to connect to the Internet and share resources in a networked environment. Other topics covered include scripting basics, remote access technologies, IoT devices and documentation. Virtualization, cloud computing and security are also discussed.

**Prerequisite:** None

**Grade Level:** 9, 10, 11, 12

**Status:** Elective

**Duration:** 2 semesters

## HONORS NETWORKING 1-2

130621/130622

This course is a study of the fundamentals of current networking technology. Students will learn to design, plan, implement, and support computer networks. The course introduces a full range of computer networking from local area networks to wide area networks.

**Prerequisite:** Successful completion IT Essentials 1-2

**Grade Level:** 10, 11, 12

**Status:** Elective

**Duration:** 2 semesters



**HONORS NETWORKING 3-4****130631/130632**

This course is a study of the fundamentals of current networking technology. Students will learn to design, plan, implement, and support computer networks. The course introduces a full range of computer networking from local area networks to wide area networks.

**Prerequisite:** Successful completion of Honors Networking 1-2

**Grade Level:** 11, 12

**Status:** Elective

**Duration:** 2 semesters

## AUDIO VIDEO PRODUCTION PATHWAY

**DIGITAL MEDIA****130691**

Students will create, design, and produce digital media including sound, video, graphics, text, and animation. Emphasis will be placed on effective use of tools for interactive multimedia production including: storyboarding, visual development, project management, and web processes.

**Prerequisite:** None

**Grade Level:** 9, 10

**Status:** Elective

**Duration:** 1 semester

**AUDIO VIDEO FOUNDATIONS****131011**

Students will expand their media skills in the areas of interviewing, reporting, writing, editing, photography/videography, and design. Students will explore careers while working together to create projects in a variety of media, such as print, web, podcast, and/or broadcast. The emphasis of Audio Video Foundations is on career exploration, collaboration, creativity, and legal/ethical standards in produced media.

**Prerequisite:** None

**Grade Level:** 9, 10

**Status:** Elective

**Duration:** 1 semester

**AUDIO VIDEO PRODUCTION 1-2****131021/131022**

Students will expand upon the basics of video production to create projects that will involve a sequence requiring pre-production, production, and post-production. The emphasis of video production is to tell stories through interviewing, scripting and a more professional application of lighting, filming, recording, and editing.

**Prerequisite:** Successful completion of Digital Media and Audio Video Foundations

**Grade Level:** 10, 11, 12

**Status:** Elective

**Duration:** 2 semesters

**AUDIO VIDEO PRODUCTION 3-4****131031/13102**

This course is an applied-knowledge course intended to prepare students to pursue careers and postsecondary learning in audio/visual production. Students in this course will apply knowledge and skills from previous courses in the program of study to create productions both independently and in teams. Students will use various equipment and technology to complete all phases of the production process, including planning, coordinating, capturing, editing, and distributing productions. Standards in this course include policies and regulations, independent and collaborative productions, distribution of media, and the production of live events. An understanding of the professional and ethical issues encountered by professionals in these careers is developed as students learn to refine their skills in problem solving, research, communication, teamwork, and project management.

**Prerequisite:** Successful completion of Audio Video Production 1-2

**Grade Level:** 11, 12

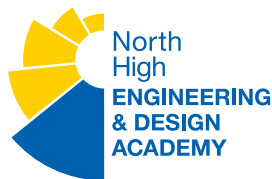
**Status:** Elective

**Duration:** 2 semesters





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# Engineering & Design Academy

## Engineering & Design Academy

The Engineering & Design Academy empowers students to, step into the role of an engineer, adopt a problem solving mindset and make the leap from dreamers to doers. The program's courses engage students in compelling, real-world challenges that help them become better collaborators and thinkers. Students take from the courses in-demand knowledge and skills they will use in high school and for the rest of their lives, on any career path they take.

Pathway: PLTW Engineering, Precision and Machining, Drafting and Design, and Robotics and Automation.

Grade	Required Academy Courses				Suggested Academy Electives
	PLTW Engineering	Precision Machining Pathway	Mechanical Design	Robotics	
9	H. Introduction to Engineering	Freshman Seminar	Freshman Seminar	Freshman Seminar	Journalism Yearbook
10	H. Introduction to Engineering or H. Principles of Engineering	Machine Tool 1-2 AND Principles of Machining/ Blueprint Reading	Mechanical Design 1-2	Intro to Robotics 1/2 (H)	Chemistry (H), Physics 1-2 (H), AP Physics 1, AP Environmental Science Sociology Psychology African-American History Omaha History
11	H. Civil Engineering and Architecture or H. Digital Electronics	Machine Tool	Mechanical Design 3-4	Robotics 3-4	Foreign Language Performing and Fine Arts
12	H. Engineering Design and Development	CNC And Manufacturing 1-2	Mechanical Design 5-6	Advanced Robotics 5-6	Other Computer Science and Technology Courses

**Career and Technical Student Organizations:** SkillsUSA

**Work-Based Learning Experience:** Round Tables, Job Shadowing, Internships. Industry Tours, Guest Speakers, Industry Interviews

**Industry Certifications:** OSHA. Autocad Certification. FANUC

**Available Advanced Placement and Dual: Credit Opportunities:** AP Language and Comp, H Tech Comm. AP US History, AP Human Geography, AP World History, AP US Government, AP Calculus, AP Calculus BC, H. Personal Finances, AP Physics, AP Chemistry, Precision Machining Pathway Courses

# ENGINEERING AND DESIGN ACADEMY

## PLTW ENGINEERING PATHWAY

In PLTW Engineering, students engage in open-ended problem solving, learn and apply the engineering design process, and use the same industry-leading technology and software as are used in the world's top companies. Students are immersed in design as they investigate topics such as sustainability, mechatronics, forces, structures, aerodynamics, digital electronics and circuit design, manufacturing, and the environment, which gives them an opportunity to learn about different engineering disciplines before beginning post-secondary education or careers.

### ▪ FOUNDATION COURSES ▪

#### HONORS INTRODUCTION TO ENGINEERING DESIGN

171001/171002

Students dig deep into the engineering design process, applying math, science, and engineering standards to hands-on projects. They work both individually and in teams to design solutions to a variety of problems using 3D modeling software, and use an engineering notebook to document their work.

**Prerequisite:** Successful completion of Algebra 1-2 with a B or higher or concurrent enrollment in Algebra 1-2.

Grade Level: 9, 10

Status: Elective

Duration: 2 semesters

#### HONORS PRINCIPLES OF ENGINEERING DESIGN

171011/171012

Through problems that engage and challenge, students explore a broad range of engineering topics, including mechanisms, the strength of structures and materials, and automation. Students develop skills in problem solving, research, and design while learning strategies for design process documentation, collaboration, and presentation.

**Prerequisite:** Successful completion of Honors Introduction to Engineering Design

Grade Level: 10, 11, 12

Status: Elective

Duration: 2 semesters

### ▪ SPECIALIZATION COURSES ▪

#### HONORS CIVIL ENGINEERING AND ARCHITECTURE

171071/171072

Students learn important aspects of building and site design and development. They apply math, science, and standard engineering practices to design both residential and commercial projects and document their work using 3D architecture design software.

**Prerequisite:** Successful completion of Honors Principles of Engineering Design

Grade Level: 11, 12

Status: Elective

Duration: 2 semesters

#### HONORS DIGITAL ELECTRONICS

171021/171022

From smart phones to appliances, digital circuits are all around us. This course provides a foundation for students who are interested in electrical engineering, electronics, or circuit design. Students study topics such as combinational and sequential logic and are exposed to circuit design tools used in industry, including logic gates, integrated circuits, and programmable logic devices.

**Prerequisite:** Successful completion of Algebra 1-2 with a C or higher

Grade Level: 10, 11, 12

Status: Elective

Duration: 2 semesters

### ▪ CAPSTONE COURSE ▪

#### HONORS ENGINEERING DESIGN AND DEVELOPMENT

172011/172012

The knowledge and skills students acquire throughout PLTW Engineering come together in EDD as they identify an issue and then research, design, and test a solution, ultimately presenting their solution to a panel of engineers. Students apply the professional skills they have developed to document a design process to standards, completing EDD are ready to take on any post-secondary program or career.

**Prerequisite:** Successful completion of 3 years of PLTW coursework

Grade Level: 12

Status: Elective

Duration: 2 semesters

## PRECISION MACHINING PATHWAY

### MACHINE TOOL BASICS 1-2

171951/17195

Machine Tool Basics is a foundational course that explores career opportunities and provides essential skills in the precision machining industry. Students will gain hands-on experience through practical exercises and laboratory sessions, learning to use a variety of measuring instruments and operate precision machining equipment safely and effectively. Some of the equipment students will learn to operate includes the lathe, mill, and plasma cutter. By the end of the course, students will have a solid foundation for further studies in the field of manufacturing.

**Prerequisite:** None

**Grade Level:** 9, 10, 11, 12

**Status:** Elective

**Duration:** 2 semester

### \*MECHANICAL BLUEPRINT READING 1

170381

This course develops the skills required for visualizing and interpreting industrial prints and freehand technical sketching. Topics include identifying prints, drafting and print-reading procedures, machining specifications, geometric dimensioning, and applied mathematics. This course is dual enrolled for college credit; students may not miss more than 5 classes per semester due to MCC attendance practices.

**Prerequisite:** None

**Grade Level:** 10, 11, 12

**Status:** Elective

**Duration:** 1 semester

### \*PRINCIPLES OF MACHINING 1

171961

Students learn machine safety, metrology, and metallurgy along with basic machine principles related to hole making bench work and layout. This course is dual enrolled for college credit; students may not miss more than 5 classes per semester due to MCC attendance practices.

**Prerequisite:** None

**Grade Level:** 10, 11, 12

**Status:** Elective

**Duration:** 1 semester

### \*MACHINE TOOL 1

171971

This course introduces machines, tools, and processes associated with the machine trade. It covers fundamentals in bench layout, metal removal processes, drill presses, horizontal and vertical saws. Students will construct basic machine projects using various pieces of shop equipment including all precision measuring tools, milling machines, engine lathes, drill presses and surface grinders. Students focus on safety as well as setup and accuracy of completed projects. This course is dual enrolled for college credit.

**Prerequisite:** Successful completion of Mechanical Blueprint Reading 1 and Principles of Machining 1

**Grade Level:** 10, 11, 12

**Status:** Elective

**Duration:** 1 semester

### \*MACHINE TOOL 2

171972

This course introduces machines, tools, and processes associated with the machine trade. It covers fundamentals in bench layout, metal removal processes, drill presses, horizontal and vertical saws. Students will construct basic machine projects using various pieces of shop equipment including all precision measuring tools, milling machines, engine lathes, drill presses and surface grinders. This course is dual enrolled for college credit; students may not miss more than 5 classes per semester due to MCC attendance practices.

**Prerequisite:** Successful completion of Machine Tool 1

**Grade Level:** 10, 11, 12

**Status:** Elective

**Duration:** 1 semester

### \*MACHINE TOOL 3

171981

Students construct advanced projects using various pieces of shop equipment including milling machines, engine lathes, drill presses and grinders. Students focus on safety as well as setup and accuracy of completed project. This course is dual enrolled for college credit; students may not miss more than 5 classes per semester due to MCC attendance practices.

**Prerequisite:** Successful completion of Machine Tool 2

**Grade Level:** 11, 12

**Status:** Elective

**Duration:** 1 semester

**CNC MANUFACTURING 1-2****171991/171992**

This course introduces Computer Numerical Control (CNC) machines with emphasis on machine setup and operation of the CNC mill and CNC lathe. Students spend time learning and writing basic G-Code functions needed for straight-line milling, hole-making, tapping, and engraving. This course introduces CAD/CAM software, focusing on geometry creation, drawing of 2-D parts, saving programs, tool paths, creating lines and arcs, and bolt circles.

**Prerequisite:** Successful completion of Machine Tool 3 with a C or higher

**Grade Level:** 12

**Status:** Elective

**Duration:** 2 semesters

**MECHANICAL DESIGN PATHWAY****\*MECHANICAL DESIGN 1-2****172531/172532**

Mechanical Design 1-2 is a foundational course in the Mechanical Design Pathway for students interested in a variety of engineering and design professions. Upon completion of this course, students will build foundational skills in freehand sketching, fundamental technical drawing, and related measurement and math. Proficient students will be able to use computer aided design (CAD) software to create multi-view, sectional view, auxiliary view, and three-dimensional drawings using industry standard dimensioning and notation.

**Prerequisite:** None

**Grade Level:** 10, 11, 12

**Status:** Elective

**Duration:** 2 semesters

**MECHANICAL DESIGN 3-4****172541/172542**

Mechanical Design 3-4 is the second course in the Mechanical Design Pathway. Students in this course build their skills in developing and representing design ideas using technical drawings and apply the design process to solve design problems. Students will utilize 3D mechanical solid modeling design software to create 3D digital prototypes with an emphasis on 3D mechanical design, design communication, tooling creation and product simulation. This enables students to produce accurate 3D models to aid in designing, visualizing and simulating products before they are built.

**Prerequisite:** Successful completion of Mechanical Design 1-2

**Grade Level:** 11, 12

**Status:** Elective

**Duration:** 2 semesters

**MECHANICAL DESIGN 5-6****172551/172552**

Mechanical Design 5-6 is the third course in the Mechanical Design Pathway. In this advanced course, students will apply technical drawing and design skills developed in the previous courses to specific mechanical projects and contexts. Collaboration is encouraged between individuals and group participants to expand their problem-solving and critical-thinking skills by assessing the requirements of a project to accomplish realistic planning. Upon completion of this course, proficient students will be able to employ methods of data collection and analysis to provide others with appropriate information for projects and to develop their own designs.

**Prerequisite:** Successful completion of Mechanical Design 3-4

**Grade Level:** 12

**Status:** Elective

**Duration:** 2 semesters

**ROBOTICS AND AUTOMATION PATHWAY****INTRO TO ROBOTICS 1-2****172141/172142**

Students will design and build a robot to participate in area robotics competitions. Major units of study will focus on the engineering design process, designing and building a controllable base, designing and building a manipulator and programming of the mechanical system using logic based control and simple sensors.

**Prerequisite:** None

**Grade Level:** 9, 10, 11, 12

**Status:** Elective

**Duration:** 2 semesters

**HONORS INTRO TO ROBOTICS 1-2 (After School Only)****172131/172132**

Students will design and build a robot to participate in area robotics competitions. Major units of study will focus on the engineering design process, designing and building a controllable base, designing and building a manipulator and programming of the mechanical system using logic based control and simple sensors.

**Prerequisite:** None

**Grade Level:** 9, 10, 11, 12

**Status:** Elective

**Duration:** 2 semesters



**ROBOTICS CONCEPTS 3-4****72151/172152**

Students will thoroughly examine a robotics design problem and implement the best possible solution to the proposed problem. The problem will require students to develop deeper understanding of robotics design and implementation. Examples would include transmission design, pneumatic controls and in-depth precision programming control.

**Prerequisite:** Successful completion of *Intro to Robotics 1-2*

**Grade Level:** 10, 11, 12

**Status:** Elective

**Duration:** 2 semesters

**\*ADVANCED ROBOTICS CONCEPTS 5-6****172161/172162**

Students will thoroughly examine robotics design problem, develop an original possible solution and document the stages of the design process. The problem will require students to develop deeper understanding of robotics design, implementation, and problem solving for a specified criterion. This course applies science, technology, engineering and math (STEM) concepts. Examples would include transmission design, pneumatic controls and in-depth precision programming control.

**Prerequisite:** Successful completion of *Robotics Concepts 3-4*

**Grade Level:** 11, 12

**Status:** Elective

**Duration:** 2 semesters





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# Science & Research Academy

## Science & Research Academy

The Science & Research Academy empowers students to build knowledge and skills in biomedical science, research, and environmental science, as well as in-demand, transportable skills like problem solving, critical and creative thinking, communication, and collaboration.

Grade	Required Academy Courses				Suggested Academy Electives
	PLTW Biomedical Pathway	Medical Research & Health Informatics Pathway	Environmental Sciences Pathway	Teaching as a Profession Pathway	
9	H. Principles of Bioscience	Freshman Seminar	Freshman Seminar	Freshman Seminar	Foreign Language, Performing and Fine Arts  Chemistry (H), Physics (H), Anatomy & Physiology AP Physics, AP Biology  Sociology Psychology African-American History  AP Statistics, Other Academy Electives
10	H. Principles of Bioscience or H. Human Body Systems and Medical Terminology	Foundation of Health Science AND Medical Training	AP Environmental Science OR Environmental Science 1-2 (H)	Lifespan Development AND Principles of Education and Training	
11	H. Medical Intervention	Data and Use AND Health Informatics	Environmental Water Technology 1-2	Best Practices in Education	
12	H. Biomedical Innovations AND UNMC The Study of Patient Care	Problems and Solutions OR H. Advanced Research	Inland Water Ecology 1-2	Education Practicum/ Internship	

**Career and Technical Student Organizations:** EdRising and HOSA

**Work-Based Learning Experience:** Round Tables, Job Shadowing, Internships, Industry Tours, Guest Speakers, College field trip with Pathway, Pre-ACT, ACT, Career Exploration, Digital Portfolio, Interest Inventory

**Industry Certifications:** CPR/First Aid, OSHA, CNA, EMT

**Available Advanced Placement and Dual: Credit Opportunities:** AP Language and Comp, H Tech Comm, AP US History, AP Human Geography, AP World History, AP US Government, AP Statistics, AP Calculus, AP Calculus BC, H. Personal Finances, AP Sciences

# SCIENCE AND RESEARCH ACADEMY

## PLTW BIOMEDICAL PATHWAY

This is a fantastic pathway to prepare students for ANY career in the medical field, teaching them hands on real world medical skills. Project Lead The Way (PLTW) prepares students to be the most innovative and productive leaders in Science, Technology, Engineering, and Mathematics (STEM) and the make meaningful, pioneering contributions to our world. The sequence of high school courses in the PLTW Biomedical Sciences program parallels the proven PLTW Engineering program.

### ▪ FOUNDATION COURSES ▪

#### HONORS PRINCIPLES OF BIOSCIENCE

061361/061362

In the introductory course of the PLTW Biomedical Science program, students explore concepts of biology and medicine to determine factors that led to the death of a fictional person. While investigating the case, students examine autopsy reports, investigate medical history, and explore medical treatments that might have prolonged the person's life. The activities and projects introduce students to human physiology, basic biology, medicine, and research processes while allowing them to design their own experiments to solve problems.

**Prerequisite:** Successful completion of *Physical Science 1-2* and concurrent enrollment in *Biology 1-2*

**Grade Level:** 9, 10

**Status:** Elective

**Duration:** 2 semesters

#### HONORS HUMAN BODY SYSTEMS

061371/061372

Students examine the interactions of human body systems as they explore identity, power, movement, protection, and homeostasis. Exploring science in action, students build organs and tissues on a skeletal Maniken®; use data acquisition software to monitor body functions such as muscle movement, reflex and voluntary action, and respiration; and take on the roles of biomedical professionals to solve real-world medical cases.

**Prerequisite:** Successful completion of *Honors Principles of Bioscience*

**Grade Level:** 10, 11

**Status:** Elective

**Duration:** 2 semesters

#### HONORS MEDICAL INTERVENTIONS

061381/061382

Students follow the life of a fictitious family as they investigate how to prevent, diagnose, and treat disease. Students explore how to detect and fight infection; screen and evaluate the code in human DNA; evaluate cancer treatment options; and prevail when the organs of the body begin to fail. Through real-world cases, students are exposed to a range of interventions related to immunology, surgery, genetics, pharmacology, medical devices, and diagnostics.

**Prerequisite:** Successful completion of *Honors Human Body Systems*

**Grade Level:** 11, 12

**Status:** Elective

**Duration:** 2 semesters

### ▪ CAPSTONE COURSE ▪

#### HONORS BIOMEDICAL INNOVATIONS

063191/063192

In the final course of the PLTW Biomedical Science sequence, students build on the knowledge and skills gained from previous courses to design innovative solutions for the most pressing health challenges of the 21st century. Students address topics ranging from public health and biomedical engineering to clinical medicine and physiology. They have the opportunity to work on an independent design project with a mentor or advisor from a university, medical facility, or research institution.

**Prerequisite:** Successful completion of *Honors Medical Interventions*

**Grade Level:** 12

**Status:** Elective

**Duration:** 2 semesters

## MEDICAL RESEARCH AND HEALTH INFORMATICS PATHWAY

### FOUNDATIONS OF HEALTH CARE

074001

Foundations of Health Care is designed to give an overview of the therapeutic services, diagnostic services, support services, biotechnology research and development, and health informatics pathways. The course focuses on exploring health science pathways and careers, employability skills, ethical and legal responsibilities, safety practices and technical skills, and the history and current healthcare trends.

**Prerequisite:** None

**Grade Level:** 10

**Status:** Elective

**Duration :** 1 semester

### \*INTRO TO MEDICAL TERMINOLOGY

070611

This course is designed to help students learn medical language by analyzing their components. The primary focus is on developing both oral and written skills in the language used to communicate within health care professions.

**Prerequisite:** None

**Grade Level:** 10

**Status:** Elective

**Duration:** 1 semester

### DATA AND USE

074541

This foundational course focuses on the use of data and databases within the health field. Students explore the following questions using project-based and problem-based scenarios. What are data? What are the sources of data in the medical and health informatics fields? How can we use data? How do we make sense of data? How may we apply data to our own lives?

**Prerequisite:** Successful completion of Foundations of Health Care and Intro to Medical Terminology

**Grade Level:** 11,12

**Status:** Elective

**Duration:** 1 semester

### HEALTH INFORMATICS

074501

In this course, students study ways to use data to address both patient and industry needs in the health-care field. Students utilize technology to collect and analyze data to make improvements in the health care field. A focus of learning, both independently and collaboratively, through understanding of the information and knowledge available to health informatics professionals.

**Prerequisite:** Successful completion of Data and Use

**Grade Level:** 11,12

**Status:** Elective

**Duration:** 1 semester

### HONORS ADVANCED RESEARCH

61411/61412

This course directly exposes the students to scientific research. Students will independently investigate and develop a science project during the course of the school year. Independent research, problem solving techniques, and the principles of scientific investigation will be studied and applied. Students will be able to enter their projects in local and state level science fairs. Students enrolled in honor courses have additional experiences that require a more rigorous program of study.

**Prerequisite:** Physical Science 1-2 and Biology 1-2

**Grade Level:** 11, 12

**Status:** Elective

**Duration:** 2 semesters

## NATURAL AND ENVIRONMENTAL SCIENCES PATHWAY

### HONORS ENVIRONMENTAL SCIENCE 1-2

060371/060372

Honors Environmental Science 1-2 allows students to develop insights and skills needed to make decisions regarding the environment. The class provides basic knowledge on ecosystems and how they work. In addition, students learn how they affect the environment, what they can do to use the environment wisely, and how to preserve what is left. This course includes hands-on experiences, simulations, and outside activities. In the end, the students learn about the world in which they live. Students enrolled in honors courses have additional experiences that require a more rigorous program of study.

**Prerequisite:** *Physical Science 1-2 and Biology 1-2 (or concurrent enrollment in Biology 1-2).*

**Grade Level:** 10, 11, 12

**Status:** Elective

**Duration:** 2 semesters

### \*AP ENVIRONMENTAL SCIENCE 1-2

060361/060362

The goal of the AP Environmental Science course is to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving or preventing them. Environmental science is interdisciplinary; it embraces a wide variety of topics from different areas of study. Yet there are several major unifying constructs, or themes, that cut across the many topics included in the study of environmental science. This course is aligned with a dual enrollment opportunity for eligible students. All students enrolled in an AP course are required to take either the College Board AP exam in May or an AP Alternative Assessment (exam) approved by OPS. Both exams are cumulative and cover the content of the AP curriculum.

**Prerequisite:** *Successful completion of 2 years of science courses. Honors Chemistry is highly recommended.*

**Grade Level:** 11, 12

**Status:** Elective

**Duration:** 2 semesters

### ENVIRONMENTAL WATER TECHNOLOGY 1-2

062311/062312

This course will develop student proficiencies in the areas of hydrology, safety skills and procedures, geological principles of water resources, management of wetlands, storm water systems, environmental water resources, equipment and facility maintenance, scientific and research concepts; principles of leadership; employability, and human relations skills. Laboratory-based activities are an integral part of this course. These include the safe use and application of appropriate technology, scientific testing, and observation equipment.

**Prerequisite:** *Successful completion of Environmental Science*

**Grade Level:** 11, 12

**Status:** Elective

**Duration:** 2 semesters

### INLAND ECOSYSTEMS 1-2

062321/062322

This course will develop competencies in the areas of environmental resources from the perspective of local inland ecosystems, scientific investigation, laboratory safety, scientific and technological concepts, and the fundamentals of biotechnology. The course will focus on historical use of inland ecosystems, current uses and impacts on the ecosystem, and explore the future of inland ecosystems.

**Prerequisite:** *Successful completion of Environmental Water Technology*

**Grade Level:** 12

**Status:** Elective

**Duration:** 2 semesters





## TEACHING AS A PROFESSION PATHWAY

### LIFESPAN DEVELOPMENT

141161

This course explores the physical, emotional, social, and intellectual development of individuals across the lifespan. External impacts on development including family structure and practices, social and technological forces, and resources available to individuals and their outcomes will be explored. Classroom, laboratory, and educational leadership activities are supplemented through Educators Rising.

**Prerequisite:** None

**Grade Level:** 10

**Status:** Elective

**Duration:** 1 semester

### \*PRINCIPLES OF EDUCATION

141171

**Principles:** This course is designed to introduce students to career opportunities and related skills in the Education and Training career field, including teaching and professional educational training. Students will explore topics related to the foundation and history of education, the philosophy of education, roles of educators, instructional and assessment methods, diversity of cultures and communities related to educational settings, learner development, and professional development. Classroom, laboratory, and educational leadership activities are supplemented through Nebraska Educators Rising, a career and technical student organization. Students will need to complete and pass a background check to go into classrooms for the 5 hours of field observation and practicum experiences. This course can be dual enrolled through UNO, based on teacher HLC guideline credentials, for TED 1010 for 3 credits.

**Prerequisite:** None

**Grade Level:** 10

**Status:** Elective

**Duration:** 1 semester

### BEST PRACTICES IN EDUCATION

141181/141182

This course is a continuation of the Teaching as a Profession pathway and is the third course in a four-course sequence. Students will further engage in topics related to instructional and assessment methods, including differentiation of instruction. Students will also develop active listening skills necessary for educators and demonstrate positive feedback techniques. Students will gain skills related to planning for instruction, which will be utilized in the field experience (the fourth course in this sequence). Classroom, laboratory, and educational leadership activities are supplemented through Nebraska Educators Rising, a career and technical student organization. Students will need to complete and pass a background check in order to go into classrooms for the 25 hours of field observation and practicum experiences.

**Prerequisite:** Lifespan Development and Principles of Education and Training

**Grade Level:** 10-12

**Status:** Elective

**Duration:** 2 semesters

### FIELD EXPERIENCE IN EDUCATION & TRAINING

41191/141192

This course is a continuation of the Best Practices in Education and Training course and is the fourth course in a four-course sequence. Through this capstone experience, students will apply previously developed knowledge and skills into a structured workplace experience. Students will need to complete and pass a background check in order to go into classrooms for the 90 hours of field observation and practicum experiences. This volunteer experience may take place within a school environment for those seeking teaching careers, or within the business and industry community for those seeking careers in professional educational training. Goals are set cooperatively by students, their instructor, and respective supervising professionals. Opportunities may include experience teaching in a controlled setting by designing learning experiences and facilitating presentations. Students will focus on improving their instructional strategies through coaching from their teacher and supervising professionals. Classroom, laboratory, and educational leadership activities are supplemented through Nebraska Educators Rising, a career and technical student organization.

**Prerequisite:** Best Practices in Education, Lifespan Development and Principles of Education and Training

**Grade Level:** 11, 12

**Status:** Elective

**Duration:** 2 semesters

# AP CAPSTONE™

**AP Capstone™** is a diploma program based on two yearlong AP courses: AP Seminar and AP Research. These courses are designed to complement other AP courses that the AP Capstone student may take.

Instead of teaching specific subject knowledge, AP Seminar and AP Research use an interdisciplinary approach to develop the critical thinking, research, collaboration, time management, and presentation skills students need for college-level work.

## \*ENGLISH 3-4 AP SEMINAR

010621/010622

AP Seminar is a foundational course that engages students in cross-curricular conversations that explore the complexities of academic and real-world topics and issues by analyzing divergent perspectives. Using an inquiry framework, students practice reading and analyzing articles, research studies, and foundational, literary, and philosophical texts. Students learn to synthesize information from multiple sources, develop their own perspectives in written essays, and design and deliver oral and visual presentations, both individually and as part of a team. Ultimately, the course aims to equip students with the power to analyze and evaluate information with accuracy and precision in order to craft and communicate evidence-based arguments. All students enrolled in an AP course are required to take either the College Board AP exam in May or an AP Alternative Assessment that has been approved by the Omaha Public Schools.

**Prerequisites:** Successful Grade of B or higher in Honors English 1-2, or A in English 1-2

**Grade Level:** 10

**Status:** Elective

**Duration:** 2 semesters

## \*AP RESEARCH

010811/010812

AP Research is an interdisciplinary course that encourages students to demonstrate critical thinking and academic research skills on a topic of the student's choosing. To accommodate the wide range of student topics, typical college course equivalents include introductory research or general elective courses. Build on what you learned in AP Seminar to deeply explore an academic topic, problem, or issue of individual interest. Through this exploration, you will design, plan, and conduct a year-long research-based investigation to address a research question. All students enrolled in an AP course are required to take either the College Board AP exam in May or an AP Alternative Assessment that has been approved by the Omaha Public Schools.

**Prerequisites:** Successful completion of English 3-4 AP Seminar with a C or higher

**Grade Level:** 11, 12

**Status:** Elective

**Duration:** 2 semesters

## AP Capstone Diploma™

Students who earn scores of 3 or higher in AP Seminar and AP Research and on four additional AP Exams of their choosing receive the AP Capstone Diploma™.

## AP Seminar and Research Certificate™

Students who earn scores of 3 or higher in AP Seminar and AP Research, but not on four additional AP Exams receive the AP Seminar and Research Certificate™.



# ART

## ART FOUNDATIONS 1-2

110191/110192

This course will provide students with a solid foundation for drawing and design. Elements of art, principles of design, color theory and composition will be covered. Students will learn art techniques and concepts using a variety of 2D and 3D media to create original works of art. In addition to art production, students will use a variety of learning strategies including reading, analyzing, and interpreting to respond, connect, and develop a deeper understanding of art from a variety of cultures and time periods. This is a year-long course.

**Prerequisite:** None

**Grade Level:** 9, 10, 11, 12

**Status:** Elective

**Duration:** 2 semesters

## INTERMEDIATE DRAWING AND PAINTING 1-2

110241/110242

This course offers an expansion of skills and knowledge of drawing, painting, and design concepts. An emphasis will be on idea generation; artistic investigations in techniques and media; initial development of personal voice and style and the development of a greater awareness of art beyond school. In addition to art production, students will use a variety of learning strategies including reading, analyzing, and interpreting to respond, connect, and develop a deeper understanding of art from a variety of cultures and time periods. This is a year-long course.

**Prerequisite:** Successful completion of Art Foundations 1-2 or Art 1-2

**Grade Level:** 10, 11, 12

**Status:** Elective

**Duration:** 2 semesters

## STUDIO ART 1-2

110451/110452

The focus of this course is on the development of conceptual and technical skills used in contemporary studio practice by providing advanced opportunities to expand and refine artistic skills in a variety of two-dimensional media. Students will develop a personal style and creative ideas to expand one's awareness of art beyond school. Students will focus on portfolio development, presentation, exhibition, scholarship preparation and career exploration. Learning strategies allow students to communicate a deeper understanding of their own art and art from a variety of cultural contexts, time periods and cultural settings. This course can be taken concurrently with other art courses.

**Prerequisite:** Successful completion Intermediate Drawing and Painting or Applied Design 1-2

**Grade Level:** 11, 12

**Status:** Elective

**Duration:** 2 semesters

## H STUDIO ART 3-4

110611/110612

This course focuses on exhibitions, portfolios, scholarship preparation and career planning. Areas of concentration will be art production, art history, art criticism, and aesthetics. Honors requirements are: view or attend formal exhibits and submit exhibit reviews/critiques; write an in-depth research paper; complete written abstracts about artists and their work; refine individual work for exhibition and/or competition each semester; participate in discussions and critiques and keep a drawing and reflection sketchbook. Students are strongly encouraged to enroll concurrently in another art class.

**Prerequisite:** Successful completion of six semesters of art

**Grades:** 12

**Status:** Elective

**Duration:** 2 semesters

## \*AP STUDIO ART 2-D

110841/110842

The AP 2D Art and Design course framework presents an inquiry-based approach to learning about and making art and design. Students are expected to conduct an in-depth, sustained investigation of materials, processes and ideas. The framework focuses on concepts and skills emphasized within college art and design foundations courses with the same intent: to help students become inquisitive, thoughtful artists and designers able to articulate information about their work. AP 2D Art and Design students develop and apply skills of inquiry and investigation, practice, experimentation, revision, communication and reflection. Students can work with any materials, processes and ideas to create work that exists on a flat surface. Graphic design, digital imaging, photography, collage, fabric design, weaving, fashion design, fashion illustration, painting printmaking are among the possibilities. The AP 2D Art and Design Portfolio exams contain two sections. The Selected Works section (40% of total score) requires students to demonstrate skillful synthesis of materials, processes and ideas. The Sustained Investigation section (60% of total score) requires students to conduct a sustained investigation based on questions, through practice, experimentation and revision. Both sections of the portfolio require students to articulate information about their work. Prerequisites for this course are successful completion with a B or better in two years of upper level art courses or instructor approval. Students who select NOT to participate in the AP exam are expected to take a cumulative, AP comparable, teacher-graded end of course exam.

**Prerequisite:** Successful completion of Studio Art 1-2 or teacher recommendation

**Grades:** 12

**Status:** Elective

**Duration:** 2 semesters

**BEGINNING CERAMICS AND SCULPTURE 1-2****110701/110702**

This is a foundation course that emphasizes the art elements and principles of design to produce nonfunctional and functional three-dimensional art forms. This course explores ceramics in terms of form, function, and cultural expression. In addition to art production, students will use a variety of learning strategies including reading, analyzing, and responding to develop a deeper understanding of art. Students will learn and use the critical process to evaluate their own work, as well as examples taken from contemporary and historical clay artists.

**Prerequisite:** None; *Art Foundations is recommended*

**Grade Level:** 9, 10, 11, 12

**Status:** Elective

**Duration:** 2 semesters

**INTERMEDIATE CERAMICS AND SCULPTURE 1-2****110711/110712**

In this course, students will be challenged with more advanced techniques and problems to create three-dimensional forms. Aesthetic issues related to form and function, the inherent expressive qualities of clay, and identifying good artisanship will be an ongoing part of the study. Students will create using methods of hand-building, the potter's wheel, and other sculptural techniques. Students will be exposed to firing techniques, different clay bodies, new glazes or surface treatments, contemporary and historical clay artists. The class will provide opportunities to expand skills; to develop a personal style; to develop creative ideas; to expand one's awareness of art beyond school, and to focus on presentation, exhibitions, scholarship preparation and career planning.

**Prerequisite:** *Successful completion of Beginning Ceramics and Sculpture or Pottery 1-2*

**Grade Level:** 10, 11, 12

**Status:** Elective

**Duration:** 2 semesters

**ADVANCED CERAMICS AND SCULPTURE 1-2****110751/110752**

This is an advanced, more independent course providing an opportunity to individualize projects, enhancing their style in the medium while further exploring the philosophical and historical aspects of clay art. Students will refine techniques and increase skill levels. Students may deeper explore the process of hand-building, the potter's wheel, sculptural techniques, firing techniques, clay bodies, glazes and sculpture techniques. Focus is on creating a series of clay pieces on a chosen theme, researching ceramic history or artists, keeping a pottery journal/sketchbook, becoming current with contemporary ceramic artists and styles, and participating in workshops. This course includes portfolio work, presentation, exhibitions, scholarship preparation and career planning. At least one student-initiated exhibit in a public forum is required. This course can be taken concurrently with other art courses.

**Prerequisite:** *Successful completion of Pottery 3-4 with a C or higher or teacher permission*

**Grade Level:** 11, 12

**Status:** Elective

**Duration:** 2 semesters

**H STUDIO ART 3D****110671/110672**

This course includes explorations into materials and process, tools, and construction methods, with an emphasis on working with clay. 3-D formal applications of line, plan, form, and space, with investigation of positive/negative/negative, interior/exterior, volume/mass, multiple/repetition, scale, color/surface, and texture will be explored. Students will work to develop technique and personal style and will develop a personal portfolio. This course is recommended as additional studio time to AP Studio Art 3D. Requirements for Honors credit include independent research; in-depth art critiques; weekly sketchbook/journal entries; gallery and/or museum visits with reflections; development of the production of clay works based on research and reflection of master ceramic artists; formal presentation of research, influence, artistic process and work as well as participation in discussions and class critiques.

**Prerequisite:** *Successful completion of Pottery 5-6 with a C or higher or teacher permission*

**Grade Level:** 12

**Status:** Elective

**Duration:** 2 semesters



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**\*AP STUDIO ART 3-D****110851/110852**

The AP 3D Art and Design course framework presents an inquiry-based approach to learning about and making art and design. Students are expected to conduct an in-depth, sustained investigation of materials, processes and ideas. The framework focuses on concepts and skills emphasized within college art and design foundations courses with the same intent: to help students become inquisitive, thoughtful artists and designers able to articulate information about their work. AP 3D Art and Design students develop and apply skills of inquiry and investigation, practice, experimentation, revision, communication and reflection. Students can work with any materials, processes and ideas that involve space and form. Figurative or nonfigurative sculpture, architectural models, metal work, ceramics, glasswork, installation, performance, assemblage, and 3-D fabric/fiber arts are among the possibilities. The AP 3D Art and Design Portfolio exams contain two sections. The Selected Works section requires students to demonstrate skillful synthesis of materials, processes and ideas. The Sustained Investigation section requires students to conduct a sustained investigation based on questions, through practice, experimentation and revision. Both sections of the portfolio require students to articulate information about their work. Prerequisites for this course are successful completion with a B or better in two years of upper level art courses or instructor approval. Students who select NOT to participate in the AP exam are expected to take a cumulative, AP comparable, teacher-graded end of course exam.

**Prerequisite:** *Successful completion of Advanced Ceramics and Sculpture 1-2 or teacher recommendation*

**Grade Level:** 12

**Status:** *Elective*

**Duration:** *2 Semesters*

**COMPUTER GRAPHIC DESIGN 1-2****110561/110562**

This course is an introduction to computer graphics design. Students will learn the elements and principles of design, in addition to layout skills and other applications of computer technology (flyers, poster and package design, drawing illustration). Students will be given a foundation in the business and commercial applications of computer graphics.

**Prerequisite:** *None*

**Grade Level:** 9, 10, 11, 12

**Status:** *Elective*

**Duration:** *2 Semesters*

**COMPUTER GRAPHIC DESIGN 3-4****110571/110572**

This course is a continuation of student preparation in the field of commercial art and graphic design. Students explore hardware and software used by the industry, building a portfolio of their work.

**Prerequisite:** *Successful completion of Computer Graphic Design 1-2*

**Grade Level:** 10, 11, 12

**Status:** *Elective*

**Duration:** *2 Semesters*

**COMPUTER GRAPHIC DESIGN 5-6****10581/110582**

This is a third year advanced course in computer graphics with emphasis on individual student projects in commercial art and design.

**Prerequisite:** *successful completion of Computer Graphic Design 3-4*

**Grades:** 11, 12

**Status:** *Elective*

**Duration:** *2 semesters*

**ART APPRECIATION****110481**

This course surveys art from prehistory through contemporary times. Its focus includes various non-Western cultures as well as art of Western cultures. Emphasis is on developing understanding of art in its historical and cultural contexts and identifying universal themes and purposes for creating. Art production may be integrated into the course on occasion, but not central to it. Students will also learn to distinguish between personal preferences and informed evaluation when examining art works; utilize art vocabulary and apply the critical process.

**Prerequisite:** *None*

**Grade Level:** 9, 10, 11, 12

**Status:** *Elective*

**Duration:** *1 semester*

**ART HISTORY****111031/111032**

This course is designed to expand student knowledge and understanding of world history by analyzing art and artifacts of the past. Students investigate the many roles of the visual arts and artists throughout historical, political and other social contexts. They will learn the formal visual elements that art uses as means to communicate in order to describe, analyze, interpret and evaluate art. This is a non-production art class. This is the first semester of a yearlong course.

**Prerequisite:** *None*

**Grade Level:** 9, 10, 11, 12

**Status:** *Elective*

**Duration:** *2 semesters*



# BUSINESS, MARKETING, AND INFORMATION TECHNOLOGY

## ACCOUNTING 1-2

120171/120172

This two-semester course covers sole proprietorship accounting principles involved in the preparation and maintenance of financial records concerned with business management and operations. It is a comprehensive introduction to basic accounting including recording, summarizing and reporting, principles of income measurement and asset valuation, and accounting systems and controls. Students are exposed to careers in the accounting field and are given the opportunity to perform accounting applications using the computer. An introduction to partnerships and corporations may be included.

**Prerequisite:** None

**Grade Level:** 9, 10, 11, 12     **Status:** Elective

**Duration:** 2 semesters

## BUSINESS/CONSUMER LAW

120391

A course designed to present the study of the legal rights and responsibilities necessary to be informed and productive citizens. Key concepts include contracts and torts, the role of courts, litigation, and constitutional issues including civil and criminal law.

**Prerequisite:** None

**Grade Level:** 10, 11, 12     **Status:** Elective

**Duration:** 1 semester

## ENTREPRENEURSHIP 1

120401

Entrepreneurship is a course designed for students with a career interest in entrepreneurship. Emphasis is placed on the evaluation of the business skills and commitment necessary to successfully operate an entrepreneurial venture and review the challenges and rewards of entrepreneurship. The role of entrepreneurial businesses in the United States and the impact on the national and global economy will be explored. Instructional strategies may include the development of a business plan, operation of school-based business, or actual creation of a student-run business.

**Prerequisite:** None

**Grade Level:** 10, 11, 12     **Status:** Elective

**Duration:** 1 semester

## MARKETING 1-2

120471/120472

## HONORS MARKETING 1-2

120501/120502

Students will explore the basic functions of marketing: pricing, promotion, product planning, and place/distribution: the marketing mix. The curriculum provides the foundational skills and knowledge in economics, communications skills/interpersonal skills, professional career development, business, management, and entrepreneurship. Application of academic concepts and technology are integrated throughout the curriculum. Students are encouraged to join the student organization DECA.

**Prerequisite:** None

**Grade Level:** 9, 10, 11, 12     **Status:** Elective

**Duration:** 2 semesters

## HONORS MARKETING 3-4

120511/120512

This course will emphasize entrepreneurial development and responsive marketing strategies that meet customer needs. The course focuses on marketing concepts and the role of marketing in the organization and society. Topics include market segmentation, product development, promotion, distribution, and pricing. Additional topics include external environment, economics, politics, government, marketing research, international marketing, cultural diversity, ethics, technology, and careers in marketing. Capstone activities include development of a marketing or business plan. Students are encouraged to join the student organization DECA. Concurrent enrollment in Marketing Internship 1-2 is required.

**Prerequisite:** Successful completion of Marketing 1-2 with a C or higher or teacher permission

**Grade Level:** 10, 11, 12     **Status:** Elective

**Duration:** 2 semesters

## \*HONORS MANAGEMENT AND LEADERSHIP 1-2

120791/120792

This course emphasizes the basic concepts of management and leadership within a business or organization. It addresses characteristics, organization, and operation of business as major sectors of the economy. Students will investigate management issues involved in planning, organizing, leading, and controlling an organization. They will also acquire essential skills in the areas of emotional intelligence: time management, stress management, professional growth and development, communication, and relationship skills.

**Prerequisite:** None

**Grade Level:** 11, 12     **Status:** Elective

**Duration:** 2 semesters

**PERSONAL FINANCE****120981**

The goal of personal finance is to help students become financially responsible, conscientious members of society. This course develops student understanding and skills in money management; budgeting; financial goal attainment; use of credit; insurance; investments; and consumer rights and responsibilities. Application of academic concepts, technology, and career/college planning are integrated throughout the curriculum.

**Prerequisite:** None

**Grade Level:** 12

**Status:** Meets requirement

**Duration:** 1 semester

**HONORS PERSONAL FINANCE****120971**

This is an honors-level course in Personal Finance. The goal of personal finance is to help students become financially responsible, conscientious members of society. This course develops student understanding and skills in money management; budgeting; financial goal attainment; use of credit; insurance; investments; and consumer rights and responsibilities. Application of academic concepts, technology, and career planning are integrated throughout the curriculum.

**Prerequisite:** None

**Grade Level:** 12

**Status:** Meets requirement

**Duration:** 1 semester

**BUSINESS INTERNSHIP 1-2****187501/187502**

This internship program provides 11th and 12th grade students with an individual career experience in the community. The internship is a supplement to formal classroom instruction. Students plan their internship with a teacher-coordinator and participate in a paid or unpaid occupational experience. Students are required to attend Employee Appreciation Banquet. Concurrent enrollment in corresponding business course.

**Prerequisite:** Teacher approval

**Grade Level:** 11, 12

**Status:** Elective

**Duration:** 2 semesters



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# DISCOVER YOUR FUTURE!

CONNECTING TODAY'S STUDENTS WITH  
TOMORROW'S CAREERS

## CONTACTS

**Jeremy Nielsen**  
Principal / Director

☎ 531-299-9505

✉ jeremy.nielsen@ops.org

Career Center Office - **Brenda Davis**

☎ 531-299-0330

✉ brenda.davis@ops.org

🌐 <https://www.ops.org/careercenter>

## OVERVIEW

Who: Sophmores, Juniors & Seniors

What: Pathway course @ Career Center  
(2-3 year pathway sequences)

When: Application opens December 1  
Application closes March 29  
\*Late additions by April 30

How: QR Code & Emailed to all OPS Students  
Linked on social MEDIA sites and

Website: <https://www.ops.org/careercenter>

Requirements: On track for graduation,

## SCHEDULE

Aligns to HS Bell Schedules

Aligns with A/B Block Schedule

Morning and Afternoon classes

## TRANSPORTATION

Bus Transportation provided by  
school district.

\*Students need approval to drive a  
personal car with proof of valid  
driver's license. Permission form is  
at Career Center and must be signed  
by parent and home school  
administrator

## CAREER CENTER PATHWAYS INFORMATION

### 5 - Trades / Skilled & Technical Sciences Pathways.

**Automotive Tech, Automotive Collision, Construction, Electrical, & Welding**

introduce students to respective careers in the trades. Students will gain strong foundational proficiency and skills through a 2-3 year course sequence. Student outcomes in each pathway include industry certifications, internships and apprenticeships, college credit, and more.

### 2 - Health Pathways.

**Basic Nursing Assistant (CNA) and Emergency Medical Technician (EMT)**

Introduces students to careers in health and therapeutic services fields. Both programs are approved by the State of Nebraska. Students have access to job shadows, simulations, field experiences and more! The culmination for students is earning the nationally recognized industry credential.

- CNA students must be 16 by May of the calendar year
- EMT students must be seniors

### 2 - I.T. / Communications Pathways.

**IT PC Repair & Networking and Digital Video Production (DVP)**

Introduces students to a careers in IT / Communication fields. Students have access to college credit, certifications, simulations, field experiences and more! Students work with specialized equipment and advanced technology in these pathways. Both pathways have 2-3 year course sequences.

FOR MORE INFO or DETAILS - Pathway Booklet QR link



Pathway  
Information



## APPLICATION INFORMATION

### One Response Per Student

#### Prior to applying

Before beginning the application, students need to know the following information:

- Personal Information
  - Home address & Home School
  - Student ID number
  - GPA
  - School issued email address
  - Career Aspirations
  - Counselor name & email
- The Pathway/Course you are Interest in..
  - Auto Tech - Auto Collision - Construction
  - Electrical - Welding - IT/Networking
  - CNA - EMT - Digital Video Production

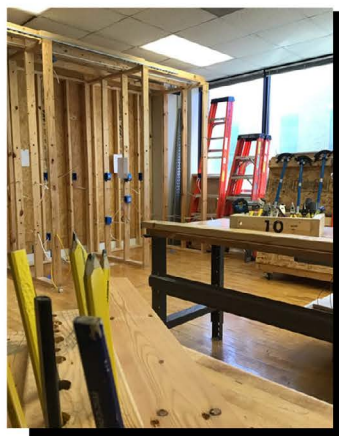
APPLICATION QR link







**THE PATHWAYS of  
The Career  
Center**



### Automotive Technology

(10, 11, 12) 2 Credits/Semester

- Work on domestic and foreign cars and trucks in a high-tech precision industry
- Use the same advanced diagnostic and hand tool equipment as industry professionals to troubleshoot complex automotive systems.
- Maintain, repair, and fine-tune a wide range of vehicle engine performance alongside ASE technicians.

### Automotive Collision Repair

(10, 11, 12) 2 Credits/Semester

- Develop skills and techniques used by professional in assembly, disassembly and non-structural repair.
- Repair, remove and replace auto body parts.
- Professionally apply undercoat, paint and topcoat to create a professional finish.

### Construction

(10, 11, 12) 2 Credits/Semester

- Operate a wide range of hand and power tools for residential and commercial projects.
- Develop important hands-on skills in the areas of estimating, framing, interior and exterior work.
- Work alongside professional mentors from architecture, construction and engineering fields.

### Electrical Systems Technology

(10, 11, 12) 2 Credits/Semester

- Advance with industry recognized skills through the Omaha Joint Electrical Apprenticeship and Training Committee program.
- Install electrical fixtures according to blueprints and schematics.
- Gain industry recognized skills from residential and commercial wiring projects and internship.

### Welding

(10, 11, 12) 2 Credits/Semester

- Apply multiple welding techniques to join, cut or manipulate metal.
- Develop a wide variety of techniques for high wage, high demand careers.
- Experience hands-on instruction to enhance critical thinking and problem solving skills.

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### Certified Nursing Assistant

(Must be 16 by course completion)

(11, 12) 2 Credits/Semester

- Prepare for a high demand career field by completing the requirements for the State of Nebraska Certified Nursing Assistant Certification.
- Obtain skills through immersion in multiple aspects of the art and science of healthcare.
- Work alongside experienced registered nurses in a

### Emergency Medical Technician

(Must be 18 by course completion)

(12) 2 Credits/Semester

- Attain essential life saving techniques critical for a career in emergency medicine.
- Complete the requirements for the national registry EMT license.
- Assess, stabilize, and transport patients during clinical experiences with certified professionals.

### Information Support & Networking

(10, 11, 12) 2 Credits/Semester

- Prepare for a career in the diverse field of information technology.
- Earn CompTIA A+, Network+ & Security + Certifications
- Troubleshoot, diagnose and repair personal computers, networks and security apparatus.

### Digital Video Production

(10, 11, 12) 2 Credits/Semester

- Operate specialized equipment to create professional video and film productions.
- Showcase skills in multiple video, film, and broadcast news competitions.

### UNMC High School Alliance

(11, 12) 2 Credits/Semester

- Experience unique and innovative science classes that are taught in partnership by UNMC faculty and certified high school teacher on the UNMC campus.

### Access UNMC High School Alliance

Application: <https://www.unmc.edu/alliance/>

### Zoo Academy

(11, 12) 2 Credits/Semester

- Experience unique and innovative science classes that are taught in partnership by certified high school teachers on the Henry Doorly Zoo campus.

### Access Zoo Academy Application:

<https://www.omahazoo.com/zooacademy>

# ENGLISH

\*Students develop cognitively, socially, and emotionally along different time and interest continuums. For students who are willing and interested in advanced coursework, but do not meet the course prerequisites, an exception may be requested through a conversation involving staff, parents/guardians, and the student.

## ENGLISH 1-2

010341/010342

This course focuses on the English Language Arts skills of reading, writing, speaking and listening. Students will use a variety of conceptual lenses to gain command of essential skills in written and oral communication and the reading of narrative and informational text. Students will produce a variety of writing samples in the following modes: descriptive, narrative, analytical, expository, persuasive, argumentative, and technical.

**Prerequisite:** None

**Grade Level:** 9

**Status:** Meets requirement

**Duration:** 2 semesters

## HONORS ENGLISH 1-2

010351/010352

This course provides a more rigorous and intensive study of the language arts skills of reading, writing, speaking and listening as described in English 1-2. Students will read a variety of narrative and informational texts and produce five required pieces in the following modes: narrative, analytical, expository, persuasive, argumentative and technical. Additional course work is required above and beyond the regular English 1-2 course.

**Prerequisite:** Successful completion of English Language Arts 8 1-2 with an A or higher OR Successful completion of Honors English Language Arts 8 1-2 with a B or higher OR MAP Reading score at or above score determined by District English Language Arts.

**Grade Level:** 9

**Status:** Meets requirement

**Duration:** 2 semesters

## ENGLISH 3-4

010411/010412

This course focuses on the English Language Arts skills of reading, writing, speaking and listening. Students will use a variety of unique conceptual lenses (relationships, culture, responsibility, integrity and honor) to gain command of essential skills in written and oral communication and the reading of narrative and informational text. Students will produce a variety of writing samples in the following modes: descriptive, narrative, analytical, expository, persuasive, argumentative, and technical.

**Prerequisite:** English 1-2

**Grade Level:** 10

**Status:** Meets requirement

**Duration:** 2 semesters

## \*ENGLISH 3-4 AP SEMINAR

010621/010622

English 3-4 AP Seminar provides students the opportunity to develop and practice the skills in research, collaboration, and communication that are necessary in the study of any academic discipline. Students will investigate topics in a variety of subject areas, write research-based essays, and design and give presentations both individually and as part of a team.

**Prerequisites:** Successful grade of B or higher in Honors English 1-2, or A in English 1-2, or teacher recommendation

**Grade Level:** 10

**Status:** Elective

**Duration:** 2 Semesters

## ENGLISH 5-6

010471/010472

This course focuses on the English Language Arts skills of reading, writing, speaking and listening through a study of American literature. Students will use a variety of conceptual lenses to gain command of essential skills in written and oral communication and the reading of narrative and informational text. Students will produce a variety of writing samples in the following modes: descriptive, narrative, analytical, expository, persuasive, argumentative, and technical.

**Prerequisite:** English 3-4

**Grade Level:** 11

**Status:** Meets requirement

**Duration:** 2 semesters



**\*AP ENGLISH LANGUAGE AND COMPOSITION****011911/011912**

AP Language and Composition is an AP course designed to engage students in the careful reading and critical analysis of, primarily, non-fiction works. The focus is American literature, poetry, and non-fiction. Through the close reading and use of other AP learning strategies, students will deepen their understanding of the ways writers use language to provide both meaning and pleasure for their readers. This course follows the College Board curriculum and involves extensive reading and writing. Course participants will be prepared, but not required, to take the Advanced Placement exam to earn college credit. Dual enrollment options may be available. All students enrolled in an AP course are required to take either the College Board AP exam in May or an AP Alternative Assessment (exam) approved by OPS. Both exams are cumulative and cover the content of the AP curriculum. A summer project is required for this class.

**Prerequisite:** *Successful completion of English 3-4 AP Seminar with a C or higher, or A in English 3-4, or teacher recommendation*

**Grade Level: 11****Status: Meets requirement****Duration: 2 semesters****ENGLISH 7-8****010531/010532**

This course focuses on the English Language Arts skills of reading, writing, speaking and listening through a study of British and global literature. Students will use a variety of conceptual lenses to gain command of essential skills in written and oral communication and the reading of narrative and informational text. Students will produce a variety of writing samples in the following modes: descriptive, narrative, analytical, expository, persuasive, argumentative, and technical.

**Prerequisite:** *English 5-6*

**Grade Level: 12****Status: Meets requirement****Duration: 2 semesters****\*AP ENGLISH LITERATURE AND COMPOSITION****011901/011902**

Advanced Placement English Literature and Composition is an Advanced Placement course that engages students in the critical analysis of selected texts from ancient Greece to the contemporary world. Students continue to practice close reading techniques, build their vocabularies and comfort with the language of literary analysis, and approach texts independently with increasing sophistication and critical thinking. This course follows the College Board curriculum and involves extensive reading and writing. Advanced educational credit may be available for students who successfully pass the AP Exam. Dual enrollment options may be available. All students enrolled in an AP course are required to take either the College Board AP exam in May or an AP Alternative Assessment (exam) approved by OPS. Both exams are cumulative and cover the content of the AP curriculum. A summer project is required for this class.

**Prerequisite:** *Successful completion of AP English Language and Composition with a C or higher, or A in English 5-6, or teacher recommendation*

**Grade Level: 12****Status: Meets requirement****Duration: 2 semesters****HONORS ADVANCED CREATIVE WRITING****020371/020372**

This course provides students an opportunity to more deeply craft a chosen genre(s) of writing. Students will close read mentor texts, compile individual portfolios, and will hone their presentation skills by presenting their work in a workshop style for their class.

**Prerequisite:** *Successful completion of Honors English course or teacher recommendation*

**Grade Level: 10, 11, 12****Status: Elective****Duration: 1 or 2 semesters****PHOTOJOURNALISM 1****020841**

In this course, students learn and apply advanced photography and software techniques to produce high quality photographs for the yearbook, newspaper, and/or newspaper website.

**Prerequisite:** *C or above in most recent English class or journalism advisor recommendation*

**Grade Level: 9, 10, 11****Status: Elective****Duration: 1 semester**

**HONORS JOURNALISM 1-2****020531/020532**

Honors Journalism 1-2 introduces students to the field of journalism including newspaper, photography, and yearbook. Students learn the history, law, and ethics of journalism as well as journalistic writing, reporting and interviewing, and layout and design. Students are expected to work both individually and collaboratively.

**Prerequisite:** *C or above in most recent English class or journalism advisor recommendation*

**Grade Level:** 9, 10, 11

**Status:** Elective

**Duration:** 2 semesters

**HONORS NEWSPAPER PRODUCTION 1-2****021221/021222**

Students enrolled in this course are responsible for the production of the online and print school newspaper and student journalism social media. Students work individually and collaboratively on their assignments. Quality writing, editing, advertising, photography, design, and video skills are required.

**Prerequisite:** *Successful completion of a "C" or higher in Honors Journalism 1-2 and Journalism Adviser permission*

**Grade Level:** 9, 10, 11

**Status:** Elective

**Duration:** 2 semesters

**HONORS NEWSPAPER PRODUCTION 3-4****021241/021242**

Students enrolled in this course are responsible for the production of the online and print school newspaper and student journalism social media. Students work individually and collaboratively on their assignments. Quality writing, editing, advertising, photography, design, and video skills are required. Students will assume additional responsibilities and assignments. This course is for second year second year journalism students.

**Prerequisite:** *Successful completion of a "C" or higher in Honors News Production 1-2 and Journalism Adviser permission.*

**Grade Level:** 10, 11,12

**Status:** Elective

**Duration:** 2 semesters

**HONORS NEWSPAPER PRODUCTION 5-6****021251/021252**

Students enrolled in this course are responsible for the production of the online and print school newspaper and student journalism social media. Students work individually and collaboratively on their assignments. Quality writing, editing, advertising, photography, design, and video skills are required. Students will assume additional responsibilities and assignments. This course is for second/third year journalism students.

**Prerequisite:** *Successful completion of a "C" or higher in Honors News Production 3-4 and Journalism Adviser permission*

**Grade Level:** 11,12

**Status:** Elective

**Duration:** 2 semesters

**HONORS NEWSPAPER PRODUCTION 7-8****021261/021262**

Students enrolled in this course are responsible for the production of the online and print school newspaper and student journalism social media. Students work individually and collaboratively on their assignments. Quality writing, editing, advertising, photography, design, and video skills are required. Students will assume additional responsibilities and assignments. This course is for fourth year journalism students.

**Prerequisite:** *Successful completion of a "C" or higher in Honors News Production 5-6 and Journalism Adviser permission*

**Grade Level:** 12

**Status:** Elective

**Duration:** 2 semesters

**HONORS YEARBOOK 1-2****021231/021232**

Students enrolled in this course are responsible for the production of the school yearbook. Students will work individually and collaboratively on their assignments. Quality writing, editing, advertising, photography, and layout design skills are studied.

**Prerequisite:** *Successful completion of Honors Journalism 1-2 or Photojournalism with a B or higher and Journalism Adviser permission*

**Grade Level:** 9, 10, 11, 12

**Status:** Elective

**Duration:** 2 semesters

**HONORS YEARBOOK 3-4****021331/021332**

Students enrolled in this course are responsible for the production of the school yearbook. Students work individually and collaboratively on their assignments. Quality writing, editing, advertising, photography, and layout design skills are required. Students will assume additional responsibilities and assignments. This course is for second year yearbook students.

**Prerequisite:** *Successful completion of Honors Yearbook 1-2 with a B or higher and Journalism Adviser permission*

**Grade Level:** 10, 11, 12**Status:** Elective**Duration:** 2 semesters**HONORS YEARBOOK 5-6****021431/021432**

Students enrolled in this course are responsible for the production of the school yearbook. Students work individually and collaboratively on their assignments. Quality writing, editing, advertising, photography, and layout design skills are required. Students will assume additional responsibilities and assignments. This course is for third year yearbook students.

**Prerequisite:** *Successful completion of Honors Yearbook 3-4 with a B or higher and Journalism Adviser permission*

**Grade Level:** 11,12**Status:** Elective**Duration:** 2 semesters**HONORS YEARBOOK 7-8****021441/021442**

Students enrolled in this course are responsible for the production and leadership of the school yearbook. Students work individually and collaboratively to lead other students and on their own assignments. Quality writing, editing, advertising, photography, and layout design skills are required along with leadership of peers. Students will assume additional responsibilities and assignments as needed. This course is for fourth year yearbook students.

**Prerequisite:** *Successful completion of Honors Yearbook 5-6 with a B or higher and Journalism Adviser permission*

**Grade Level:** 12**Status:** Elective**Duration:** 2 semesters**HONORS EDITORIAL LEADERSHIP****021281/021282**

Students enrolled in this class must also be enrolled concurrently in H Yearbook 3-4 or H News Production 3-4 higher. The purpose of this class is to build the leadership skills of journalists who are promoted into editorial management positions. It will also establish ongoing training, coaching, and support as well as create mutually supportive cohorts for the leaders.

**Prerequisite:** *Successful completion of Honors Yearbook or Honors News Production with a B or higher and Journalism Adviser permission. Exceptions may be made for journalism students who have been moved to an editorial leadership position*

**Grade Level:** 11, 12**Status:** Elective**Duration:** 2 semesters**STAGECRAFT 1****020681**

This course focuses on providing students with an understanding of technical theater, including theater safety, parts of a theater, theatrical rigging systems, the safe use of tools, basic set construction, introduction to set design, introduction to theatrical lighting and sound, stage management, and the use of other theatrical equipment. In addition, students will be introduced to theatrical costumes, properties, and theatrical makeup and the role each plays within a production. Strong interest in the "behind the scenes" working of a theatrical production is a must. Some experience in building/construction is good, but not necessary. Students will be expected to work before and after school and evenings in addition to the required class time. Student must pass a safety exam to be accepted into this class.

**Prerequisite:** *None*

**Grade Level:** 9, 10, 11, 12**Status:** Elective**Duration:** 1 Semester (Fall Only)

**ADVANCED STAGECRAFT 1****020691**

This course focuses on providing students with an advanced understanding of technical theater, set design and construction, the safe use of tools, theatrical rigging systems, and other theatrical equipment. Students enrolled in this course will read and technically analyze play/musical productions and take leadership roles in the technical dimension of school productions which include: designing and building sets, operating theatrical riggings, designing and leading the light, sound properties, makeup and costume crews, and stage management. They will also assist the technical director during school productions while maintaining focus on safety in all operations and procedures. Students must critique the production process and complete other projects related to technical theater in and outside of the classroom. Students are required to attend and critique all school plays and musical productions. This course may be taken more than one time for credit. Students will be expected to work before and after school and evenings in addition to the required class time. Student must pass a safety exam to be accepted into this class.

**Prerequisite:** Successful completion of Stagecraft 1 with a B or higher or teacher recommendation

**Grade Level:** 9, 10, 11, 12     **Status:** Elective

**Duration:** 1 Semester (Fall Only)

**SPEECH 1-2****020511/020512**

This course focuses on acquainting students with the communication process and on developing and improving students' public speaking skills and their oral interpretation skills. Instruction focuses on the teaching of the fundamentals of speech and requires students to perform various speaking activities.

**Prerequisite:** None

**Grade Level:** 9, 10, 11, 12     **Status:** Elective

**Duration:** 2 Semesters

**LITERACY SKILLS****011181/011182**

Students in this course will improve reading proficiency with explicit, direct instruction in fluency, vocabulary, and comprehension. Strategies for phonemic awareness and phonics will be taught as needed. Students will read leveled, high interest literature for both academic and recreational purposes. Placement is based on Standardized test scores and teacher recommendation.

**Prerequisite:** Teacher approval and middle school recommendations

**Grade Level:** 9

**Status:** Elective

**Duration:** 2 semesters

**ACADEMIC LITERACY****011011/011012**

This course helps students develop skills and knowledge to improve their engagement, fluency, and comprehension of content-area materials and texts. Students will learn to understand and regulate their own reading processes while developing strategies for overcoming reading obstacles. Placement is based on standardized test scores and teacher recommendation.

**Prerequisite:** Teacher approval and middle school recommendations

**Grade Level:** 9

**Status:** Elective

**Duration:** 2 semesters



# ENGLISH LEARNERS

While the following courses are available only to students who qualify for ESL services and support, ESL students are not limited to these courses.

High School EL 4-year Graduation Plan				
Year 1 in US School or Beginning Level ELs	A Day	B Day	Considerations	Summer courses for accrual purposes toward graduation
	ESL 1 (155191) ESL 2 (155192)	ESL 1 (155191) ESL 2 (155192)		
	Recommended Math	ESL Reading 1 (155211) ESL Reading 2 (155212)	EL Math screener or transcripts determine initial math course placement. Courses in math progression may include: - Math Essentials 1-2* - Pre-Algebra 1-2 - Algebra 1-2 *Math Essentials is a math credit bearing course taught by Math endorsed teacher. Schools may choose to offer ESL Math Prep 1 (155301) and/or ESL Math Prep 2 (155302) as a zero hour for additional math support.	Math Essentials 1 (040581) Math Essentials 2 (040582)
	Science Foundations 3 (063141) Science Foundations 4 (063142)	ESL Social Studies Foundations 1 (159411) ESL Social Studies Foundations 2 (159412)	Science Foundations is science elective credit taught by Science endorsed teacher.	Science Foundations 3 (063141)
	Freshman Seminar or Elective	P.E.	ELs entering high school at 9th grade take Freshman Seminar. ELs entering high school at 10th grade or above discuss CCAP with school counselor and begin elective/CCAP courses.	
Year 2 in US School or Early Intermediate Level ELs	A Day	B Day	Considerations	Summer courses for accrual purpose
	ESL 3 (155351) ESL 4 (155352)	ESL 3 (155351) ESL 4 (155352)		Human Geography (031011) Economics (030461)
	Pathway course	Recommended Math	Courses in math progression may include: Pre-Algebra 1-2 Algebra 1-2	
	P.E.	ESL Reading 3 (155231) ESL Reading 4 (155232)		
	Physical Science	US History 1 ELL (031331) US History 2 ELL (031332)	Sheltered course taught by Social Studies/EL endorsed teacher	
Year 3 in US School or Intermediate Level ELs	A Day	B Day	Considerations	Summer courses for accrual purpose (June and/or July)
	ESL 5 (155151) ESL 6 (155152)	English 1 ELL (010371) English 2 ELL (010372)	Sheltered course taught by English/EL endorsed teacher	English 3 (010411)
	Biology	Recommended Math	Courses in math progression may include: Algebra 1-2 Geometry	English 4 (010412)
	Elective OR Geography (if not taken in summer of Year 2)	Elective OR Economics (if not taken in summer of Year 2)	Academic Literacy (Reading Intervention course may serve as an elective for ELs based on specific criteria)	
	Pathway course	World History 1-2	Recommended course is taught by Social Studies/EL endorsed teacher	
Year 4 in US School or Intermediate Level ELs	A Day	B Day	Considerations	Summer courses for accrual purposes
	English 5-6	English 3-4 (if not taken in summer of Year 3) OR English 7-8	Students should never take 3 years of English their 4th academic regular school year (English 3-4, 5-6, 7-8)	English 7-8 (through Accelerate) if a student must take English 3-4 during school year
	Personal Finance	American Government		
	Suggested Pathway or student interest-based Science elective	Recommended Math		
	Pathway course	Computer Science course	Computer Science course may be taken year 3 or 4	

[English Learner Program SharePoint contains additional links and information](#)

[EL Math Screener](#)





**ESL 1-2****155191/155192**

This course is intended for beginning proficiency level English learners (typically a first-year English learners with formal educational experiences). It is worth 2 credits due to double seat time. It focuses on increasing ELs' academic English skills in the areas of speaking, listening, reading, and writing to an early-intermediate level as measured by the ELP Achievement Level Descriptors. The language and literacy integrated curriculum provides students with a balanced approach to learning English through applying comprehension skills to study authentic literature, informational texts, foundational literacy skills, academic vocabulary development, and academic writing with contextualized grammar. Special attention will be given to develop ELs' oral language through integration of academic conversations. The curriculum for ESL classes is aligned to the English Language Proficiency standards and is in support of academic language development required for the core content-area standards' mastery.

**Prerequisite:** None**Grade Level:** 9, 10, 11, 12**Status:** Elective**Duration:** 2 semesters**ESL 3-4****155351/155352**

This course is intended for intermediate proficiency level English learners (typically a second-year English learners with formal educational experiences). It is worth 2 credits due to double seat time. The focus of the course will be to increase ELs' academic English skills in the areas of speaking, listening, reading, and writing to an intermediate level as measured by the ELP Achievement Level Descriptors. The language and literacy integrated curriculum will focus on strengthening comprehension and interaction with complex text through utilization of high-yield comprehension strategies, academic conversations, academic vocabulary and writing and grammar skills required to produce academic writing. The curriculum for ESL classes is aligned to the English Language Proficiency standards and is in support of academic language development required for the core content-area standards' mastery.

**Prerequisite:** ESL 1-2 or placement**Grade Level:** 9, 10, 11, 12**Status:** Elective**Duration:** 2 semesters**ESL 5-6****155151/155152**

This co-requisite course is intended for intermediate proficiency level English learners, who are also enrolled in English 1-2 ELL course. The focus of the course will be to increase ELs' academic English skills in the areas of speaking, listening, reading, and writing to an advanced level as measured by the ELP Achievement Level Descriptors. The language and literacy integrated curriculum will focus on strengthening comprehension and interaction with complex text through utilization of high-yield comprehension strategies, academic conversations, academic vocabulary and writing and grammar skills required to produce academic writing. The curriculum for this course is aligned to the English Language Proficiency standards and is in support of academic language development required for English 1-2 course.

**Prerequisite:** None**Grade Level:** 9, 10, 11, 12**Status:** Elective**Duration:** 2 semesters**ESL READING 1-2****155211/155212**

This course is designed to build reading skills in English for the English learners at beginning levels of English proficiency. Students in this course will improve reading proficiency with explicit, direct instruction in fluency, vocabulary, and comprehension. Strategies for phonemic awareness and phonics will be taught as needed. Students will read leveled, high interest literature across multiple genres for varied purposes.

**Prerequisite:** None**Grade Level:** 9, 10, 11, 12**Status:** Elective**Duration:** 2 semesters**ESL READING 3-4****155231/155232**

This ESL Reading course is offered daily and worth 2 credits due to double seat time. This course is designed for intermediate ESL students to improve reading skills. Emphasis is on developing comprehension skill through fluency, summarizing and sequencing events in a reading passage, recognizing text structures, and using systematic strategies to locate information from textbooks, using text features.

**Prerequisite:** Successful completion of learning goals from ESL Reading 1-2 or demonstration of equivalent skills**Grade Level:** 9, 10, 11, 12**Status:** Elective**Duration:** 2 semesters**ENGLISH 1-2 ELL****010371/010372**

This course offers the English 1-2 curriculum with enhanced vocabulary focus and cultural orientation for ELL students.

**Prerequisite:** ESL 3/4 or Placement**Grade Level:** 9, 10, 11, 12**Status:** Elective**Duration:** 2 semesters

**ACADEMIC LANGUAGE STUDY EL 1-2**

This year-long course is designed to boost academic language development of Long Term English Learners (LTELs). This course will focus on teaching high-leverage academic language, including vocabulary, syntax, and complex grammatical structures. Through the coursework, LTELs will engage in academic conversations and peer collaboration while reading authentic, increasingly complex information and literacy texts that are relevant to students' lives. The course curriculum will also aim to develop LTELs' academic writing skills to successfully write summaries, opinions, informative texts, and research papers. The course will provide LTELs with opportunities to make regular connections between coursework and the demands of college and the workplace.

**Prerequisite:** Follow Long-Term ELs Scheduling Recommendations

**Grade Level:** 9, 10, 11, 12    **Status:** Elective

**Duration:** 2 semesters

**ESL SOCIAL STUDIES FOUNDATIONS 1-2****159411/159412**

This ESL course is intended for beginning proficiency level English learners (typically a first-year English learners with formal educational experiences) and supports literacy and English language acquisition. This course explores the life of our country during the time period between Independence to 1900. Instruction is organized around the themes of geography, history, economics, and civics. Students investigate the key people, events, and ideas of the United States through primary and secondary sources, multiple perspectives, and the inquiry process. The curriculum for ESL classes is aligned to the English Language Proficiency standards and is in support of academic language development required for mastery of HS US History course standards and curriculum.

**Prerequisite:** None

**Grade Level:** 9, 10, 11, 12    **Status:** Elective

**Duration:** 2 semesters

**US HISTORY ELL 1-2****031331/031332**

This course is restricted for ESL students who are concurrently enrolled in ESL 3-4 or ESL 5-6. A special focus on language development is provided, but content and standards are the U.S. History standards. This course continues the study of United States history from 1900 to present. Students address the social, economic, and political development of the nation and relate it to both past and present. Instruction is organized around the themes of geography, history, economics, and civics. Students investigate the key people, events, and ideas of the United States through primary and secondary sources, multiple perspectives, and the inquiry process.

**Prerequisite:** None

**Grade Level:** 9, 10, 11, 12    **Status:** Elective

**Duration:** 2 semesters

**ESL MATH ESSENTIALS****040581/040582**

This course is designed for identified special education students and ESL students who are not prepared to enter the regular sequence of math courses (beginning with pre-algebra). Topics include operations with whole numbers, fractions, decimals and percents, data analysis, geometry, measurement and problem solving. This is the first semester of a year-long course.

**Prerequisite:** None

**Grade Level:** 9, 10, 11, 12    **Status:** Elective

**Duration:** 2 semesters

**ESL SCIENCE FOUNDATIONS 3-4****063141/063142**

Science Foundations 3-4 is an inquiry-based course designed to expose students to natural, environmental, and life sciences. Topics include weather and water cycles, plant studies, environmental changes, and human body systems. This course provides a foundation for other science courses. This science elective course is intended for beginning proficiency level English learners (typically a first-year English learners with formal educational experiences).

**Prerequisite:** None

**Grade Level:** 9, 10, 11, 12    **Status:** Meets Requirement

**Duration:** 2 semesters

**\*\*Course availability may change**

# MATHEMATICS

\*Students develop cognitively, socially, and emotionally along different time and interest continuums. For students who are willing and interested in advanced coursework, but do not meet the course prerequisites, an exception may be requested through a conversation involving staff, parents/guardians, and the student.

## PRE-ALGEBRA 1-2

040161/040162

This course is designed to meet the needs of the student who will benefit from a transition course which bridges the similarities of arithmetic and algebra. This course will contain spiraling reinforcement of basic algebraic concepts and topics in order to prepare students for successful placement in Algebra 1-2. This course will cover the content standards for pre-algebra, including operations on real numbers, conversions among fractions, decimals, and percentages, solving linear equations and inequalities, graphing linear equations, working with polynomials, and using measures of central tendency to interpret data.

**Prerequisite:** *Teacher recommendation*

**Grade Level:** 9

**Status:** *Meets requirement*

**Duration:** *2 semesters*

## ALGEBRA 1-2

040271/040272

This course is a first-year algebra survey. It covers traditional algebra topics including a study of the four basic operations dealing with signed numbers and polynomials, solution of first- and second-degree equations, verbal problems, systems of linear equations, graphing and writing linear equations and inequalities, and simplifying exponential expressions.

**Prerequisite:** *None*

**Grade Level:** 9, 10, 11, 12

**Status:** *Meets requirement*

**Duration:** *2 semesters*

## GEOMETRY 1-2

040351/040352

This course is a complete study of geometry. Topics include congruence and similarity of figures, parallelism and perpendicularity, right triangle relationships, formal and informal proof, coordinate geometry, properties of polygons and circles, and perimeter, area, and volume of two- and three-dimensional figures

**Prerequisite:** *Successful completion of Algebra 1-2*

**Grade Level:** 9, 10, 11, 12

**Status:** *Meets requirement*

**Duration:** *2 semesters*

## HONORS GEOMETRY 1-2

040361/040362

This course is the honors section of Geometry 1-2. Topics include congruence and similarity of figures, parallelism and perpendicularity, right triangle relationships, formal and informal proof, coordinate geometry, properties of polygons and circles, and perimeter, area, and volume of two- and three-dimensional figures. As an honors class, each topic will be covered in greater depth and with enrichment.

**Prerequisite:** *Proficient or advanced grades in both semesters of Honors Algebra 1-2, or advanced grades both semesters of Algebra 1-2 and teacher recommendation*

**Grade Level:** 9, 10, 11

**Status:** *Meets requirement*

**Duration:** *2 semesters*

## ALGEBRA 3-4

040291/040292

This course covers the topics of a traditional second-year algebra course. Content includes solving polynomial equations as well as linear, absolute value, and quadratic equations and inequalities, and working with exponents and logarithms, complex numbers, systems of equations and inequalities, and simple probability. Appropriate technology will be used to assist in instruction and learning. This course is not recommended for incoming freshmen.

**Prerequisite:** *Successful completion of both semesters of Honors Algebra 1-2 with proficient or advanced grades, or Algebra 1-2 with advanced grades and teacher recommendation..*

**Grade Level:** 10, 11, 12

**Status:** *Meets requirement*

**Duration:** *2 semesters*

**HONORS ALGEBRA 3-4****040301/040302**

This is the honors section of Algebra 3-4. As such the topics and concepts will be covered in more depth, and additional content is present as well. This course covers the topics of a traditional second-year algebra course. Content includes solving polynomial equations as well as linear, absolute value, and quadratic equations and inequalities, and working with exponents and logarithms, complex numbers, systems of equations and inequalities, matrix algebra and matrix solutions to systems of equations, series and sequences, and compound probability. Appropriate technology will be used to assist in instruction and learning.

**Prerequisite:** Successful completion of Algebra 1-2 or Geometry 1-2 with an A, or Honors Algebra 1-2 with a B or higher, or MAP Math score at or above score determined by District Math

**Grade Level:** 9, 10, 11, 12    **Status:** Meets requirement    **Duration:** 2 semesters

**DATA AND STATISTICS****049601/049602**

This course is designed to equip students with the mathematical, statistical, and computational skills necessary to explore life situations. Students will engage with data and statistics in order to be able to determine correlations, make sound predictions, and develop conclusions.

**Prerequisites:** Geometry 1-2

**Grade Level:** 11, 12    **Status:** Meets requirement    **Duration:** 2 semesters

**AP PRECALCULUS 1-2****040801/040802**

This course provides students with an understanding of the concepts of college algebra, trigonometry, and additional topics that prepare students for further college-level mathematics courses. This course explores a variety of function types and their applications--polynomial, rational, exponential, logarithmic, trigonometric, polar, parametric, vector-valued, implicitly defined, and linear transformation functions using matrices.

**Prerequisite:** Successful completion of Honors Algebra 3-4 or teacher recommendation.

**Grade Level:** 10, 11, 12    **Status:** Meets requirement    **Duration:** 2 semesters

**\*AP STATISTICS 1-2****040841/040842**

This is a course in statistics that covers the topics in the syllabus published by the College Board. College credit and placement depend on the individual college. This statistics class will 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, Planning a Study, Anticipating Patterns, and Statistical Inference. This course is equivalent to a one-semester, introductory, non-calculus based college course in statistics.

**Prerequisite:** Successful completion of AP Precalculus 1-2 or teacher recommendation

**Grade Level:** 10, 11, 12    **Status:** Meets requirement    **Duration:** 2 semesters

**\*COLLEGE ALGEBRA 1-2****049701/049702**

In this course students learn math skills required for further mathematics courses. Topics include: functions and their inverses; polynomial, radical, exponential and rational expressions and equations; graphing functions using transformations. Topics in probability and statistics are also addressed.

**Prerequisites:** Algebra 3-4

**Grade:** 11, 12    **Status:** Meets requirement    **Duration:** 2 semesters

**\*AP CALCULUS AB 1-2****040451/040452**

This course follows the College Board's Advanced Placement syllabus for Calculus AB, which stresses the concept of limit and introduces the student to differential and integral calculus, including both theorems and techniques. All students enrolled in an AP course are required to take either the College Board AP exam in May or an AP Alternative Assessment (exam) approved by OPS. Both exams are cumulative and cover the content of the AP curriculum. A summer project will be required for this class.

**Prerequisite:** Successful completion of AP Pre-Calculus or teacher recommendation

**Grade Level:** 9, 10, 11, 12    **Status:** Meets requirement    **Duration:** 2 semesters

**\*AP CALCULUS BC 1-2****040461/040462**

This course follows the College Board's Advanced Placement syllabus for Calculus BC, which includes functions, graphs, limits, derivatives, integrals, polynomial approximations, and series. All students enrolled in an AP course are required to take either the College Board AP exam in May or an AP Alternative Assessment (exam) approved by OPS. Both exams are cumulative and cover the content of the AP curriculum. A summer project will be required for this class.

**Prerequisite:** Successful completion of AP Pre-Calculus or teacher recommendation

**Grade Level:** 9, 10, 11, 12    **Status:** Meets requirement    **Duration:** 2 semesters

**\*HONORS CALCULUS 3****040471**

Topics are from multivariable calculus and include partial derivatives, multiple integrals and calculus of vector functions.

**Prerequisite:** Successful completion of AP Calculus BC or teacher recommendation

**Grade Level:** 9, 10, 11, 12    **Status:** Meets requirement    **Duration:** 1 semester

**\*HONORS DIFFERENTIAL EQUATIONS****040541**

Topics include first order, linear, or homogeneous differential equations and systems; the Laplace transform; boundary value problems; series and numerical solutions; and nonlinear systems. This course is paired with Honors Calculus 3.

**Prerequisite:** Successful completion of AP Calculus BC or teacher recommendation

**Grade Level:** 9, 10, 11, 12    **Status:** Meets requirement    **Duration:** 1 semester

**HONORS ENRICHMENT MATH****040701/040702**

This course offers the talented and motivated mathematics student who desires to broaden his/her mathematical horizons exposure to the following: reinforcement and extension of algebra, reinforcement and extension of geometry, number theory, symbolic logic, three-dimension geometry, analytic geometry and general problem solving. (Topics from both Linear and Discrete Math)

**Prerequisite:** Successful completion of AP Pre-Calculus with a B or higher

**Grade Level:** 9, 10, 11, 12    **Status:** Meets requirement    **Duration:** 2 semesters



North High  
Est. 1924



# MILITARY SCIENCE

**JROTC MISSION** - “To motivate young people to become higher citizens.”

## JROTC OBJECTIVE

- Educate students to succeed in high school and life beyond high school.
- Build teamwork – stress seven values through a simple acronym for leadership: (LDRSHIP) – Loyalty, Duty, Respect, Selfless service, Honor, Integrity, and Personal courage.
- Challenge students to make goals in life, to make a plan to attain those goals, and to provide direction as required so students achieve their goals.
- Provide students with leadership responsibilities and opportunities as members of the class.
- Conduct hands-on interactive learning and most importantly, have fun doing so

## J ROTC 1-2 – LEADERSHIP EDUCATION AND TRAINING (LET 1)

070811/070812

### THE EMERGING LEADER

The JROTC program is designed to help develop strong leaders and model citizens. First year Cadets will be introduced to JROTC Foundations the mission of the program and how it helps prepare you for personal success and active citizenship. Personal Growth and Behaviors focuses on your behavioral preferences, interpersonal skills and strategies to help build your personal success in the classroom, the JROTC program, and your community. Team Building introduces you to the discipline and structure of military drill. Your individual role responding to commands and moving with precision is essential when participating in drill exercises at future competitions or community events. Decision Making introduces you to a process and system for addressing goals and handling conflict, both internal and with others. Health and Fitness looks at stress and its effect on your health. Physical fitness is one effective strategy for maintaining health and is an essential component of the JROTC program. Service Learning you will learn the features and benefits of service learning for your community, yourself, and your program. This course is also a substitute course for physical education.

**Prerequisite:** None

**Grade Level:** 9, 10, 11, 12    **Status:** Meets PE Requirement    **Duration:** 2 semesters

**Notes:** All enrolled cadets are required to wear the Army Junior ROTC uniform at least once a week, during the school day, or, as specified by the Senior Army Instructor. All cadets are required to participate in the Junior ROTC physical fitness program and other activities. This course counts as a physical education credit

## J ROTC 3-4 – LEADERSHIP EDUCATION AND TRAINING (LET 2)

070821/070822

### THE DEVELOPING LEADER

The JROTC program is designed to help develop strong leaders and model citizens. As a second-year Cadet you'll continue to build on LET 1 knowledge and skills and find yourself being introduced to new content that will help you develop as a leader in the program, your school, and community. The new knowledge, skills, and abilities you will acquire your second year: Leadership introduces you to the elements, attributes, competencies and styles that leaders strive to use and develop within teams. You will learn to recognize the importance of leadership in setting goals and improving results. Personal Growth and Behaviors will continue to build on LET 1 competencies, while focusing on who you are and what you stand for. You'll work on strengthening communication skills essential in all walks of life. Team Building continues to build on drill and ceremony protocol. In LET 2, you will look at the attributes of a drill leader and the types of drill commands to oversee a team or squad leader. First Aid provides you with an introduction to first aid for emergencies and common injuries. As a leader, you may encounter a situation where first aid knowledge is necessary. Decision Making will expose you to the reality of bullying. You'll learn about the types of bullying and intervention strategies to help deter or prevent violence in schools. Health and Fitness is a necessary element of the JROTC program. All Cadets are required, as they are able, to participate in the Cadet Challenge physical fitness competition. You will look more closely at the elements of good health, including nutrition and what you eat, exercise, and sleep. Your choice to pursue a healthy lifestyle can be contagious to your peers and is the mark of leadership. Service Learning is a required component of the JROTC program. In Leadership Education Training (LET) 2, you will participate in service learning and evaluate its effectiveness. Citizenship and Government will encourage you to evaluate the important aspects of a democratic government and the rights of citizens, as introduced and interpreted in the U.S. Constitution. This course is also a substitute course for physical education.

**Prerequisite:** Successful completion of J ROTC 1-2. (LET 1)

**Grade Level:** 10, 11, 12    **Status:** Meets PE Requirement    **Duration:** 2 semesters

**Notes:** All enrolled cadets are required to wear the Army Junior ROTC uniform at least once a week, during the school day, or, as specified by the Senior Army Instructor. All cadets are required to participate in the Junior ROTC physical fitness program and other activities. This course counts as a physical education credit

**J ROTC 5-6 LEADERSHIP EDUCATION AND TRAINING III (LET 3)****070831/070832****THE SUPERVISING CADET**

The JROTC program is designed to help develop strong leaders and model citizens. As a third-year Cadet, you'll continue to build on LET I and II knowledge and skills and find yourself being introduced to new content that will help you develop your supervisory skills and abilities. The knowledge, skills, and abilities you will acquire this year: Leadership learning experiences provide you with opportunities to supervise others, make leadership decisions, and assess your own management style. You will learn to take on more responsibilities in your battalion by working on project plans and continuous improvement. Personal Growth and Behaviors will help prepare you for necessary decisions about your future education. You'll explore the education requirements of your desired career goals and research how to financially obtain them. You'll learn time management strategies, essential skills in all leaders. Team Building continues to build on drill and ceremony protocol. You will analyze the duties of a platoon leader or sergeant and focus on the skills and abilities for executing platoon drills. Decision Making will help expose you to the common stereotypes, relationship conflicts, and prejudice of our society. You'll explore strategies for neutralizing prejudice in your own relationships and how to develop negotiating strategies to help others resolve conflicts. Health and Fitness will focus on the troubling effects of drugs, tobacco, and alcohol on today's society. You'll identify substance abuse behaviors and its impact on health and learn strategies for responding appropriately to abusers. Service Learning you will move from participating and evaluating service-learning projects to playing a key role in service learning planning and implementation. Citizenship and Government will look more deeply at the definition of a citizen and your responsibility and role as a contributing member of a strong community. An Honors Course is available to selected cadets with instructor permission.

**Prerequisite:** Successful completion of JROTC 3-4 (LET 2)

**Grade Level:** 11, 12

**Status:** Meets PE Requirement

**Duration:** 2 semesters

**Notes:** All enrolled cadets are required to wear the Army Junior ROTC uniform at least once a week, during the school day, or, as specified by the Senior Army Instructor. All cadets are required to participate in the Junior ROTC physical fitness program and other activities. This course counts as a physical education credit

**JROTC 7-8 LEADERSHIP EDUCATION AND TRAINING IV (LET 4)****070741/070742****THE MANAGING LEADER**

The JROTC program is designed to help develop strong leaders and model citizens. As a fourth-year Cadet, you'll continue to build on the LET I-III knowledge and skills and find yourself being introduced to new content that will help you continue to lead others in your battalion. The knowledge, skills, and abilities you will acquire your senior year: Leadership learning experiences provide you with a unique opportunity to look at the role of leadership in continuous improvement. You'll take a look at the big picture of the JROTC program and how its outcomes relate to leadership. Additionally, you'll explore strategies for teaching and mentoring others. Personal Growth and Behaviors continues to help you think and plan for your future with topics such as personal independence, the importance of personal accountability, and professional development. Team Building continues to build on drill and ceremony protocol. You will look at the tactics for motivating others and how they translate into other areas of leadership. Additionally, you'll explore the elements of a communication model and how to overcome barriers of communication. In Service Learning you will manage a service-learning project within a unit or the entire battalion. You'll be introduced to project management processes and management tools. Citizenship and Government exposes you to the challenges that face fundamental principles of society today. You will discuss topics to encourage you, as a citizen, to think about the future of citizen rights.

Leadership laboratories for the practical application of learning are a key part of the course. An Honors Course is available for selected students with instructor permission

**Prerequisite:** Successful completion of JROTC 5-6 (LET 3)

**Grade Level:** 12

**Status:** Meets PE Requirement

**Duration:** 2 semesters

**Notes:** All enrolled cadets are required to wear the Army Junior ROTC uniform at least once a week, during the school day, or, as specified by the Senior Army Instructor. All cadets are required to participate in the Junior ROTC physical fitness program and other activities. This course counts as a physical education credit

**BEGINNING MARKSMANSHIP****070781/070782**

Detailed instruction in the art of precision rifle marksmanship and safety under the supervision of instructors certified in the Civilian Marksmanship Program and Safety Certified by U.S. Army Cadet Command. This is instruction in Olympic style marksmanship techniques and competition. Small caliber Air Rifles are used in this instruction. Students must be mature, highly motivated, dedicated, and self-disciplined. Students in this course will be expected to participate as members of the Varsity or Junior Varsity Marksmanship Teams.

**Prerequisite:** Must be enrolled in a JROTC LET course.

**Grade Level:** 10, 11, 12

**Status:** Elective

**Duration:** 2 semesters

**INTERMEDIATE MARKSMANSHIP****071051/07052**

Detailed instruction in the art of precision rifle marksmanship and safety under the supervision of instructors certified in the Civilian Marksmanship Program and Safety Certified by U.S. Army Cadet Command. This is instruction in Olympic style marksmanship techniques and competition. Small caliber Air Rifles are used in this instruction. Students must be mature, highly motivated, dedicated, and self-disciplined. Students in this course will be expected to participate as members of the Varsity or Junior Varsity Marksmanship Teams.

**Prerequisite:** *Must be enrolled in a JROTC LET course*

**Grade Level:** 10, 11, 12      **Status:** Elective      **Duration:** 2 semesters

**ADVANCED MARKSMANSHIP****070791/070792**

This is a continuation of the Beginning Marksmanship Course. Further individualized detailed instruction in precision rifle marksmanship techniques. The focus is on developing a precision expert marksman. This is instruction in Olympic style marksmanship techniques and competition. Small caliber Air Rifles are used in this instruction. Students must be mature, highly motivated, dedicated, and self-disciplined. Students in this course will be expected to participate as members of the Varsity or Junior Varsity Marksmanship Teams.

**Prerequisite:** *Must be enrolled in a JROTC LET or teacher permission*

**Grade Level:** 11, 12      **Status:** Elective      **Duration:** 2 semesters

*If you complete three or more years of Junior ROTC, you may be able to enter the Army as an E-3 private first class. Those completing two or more years of post-secondary vocational-technical training, with a certificate of completion, also qualify for Army enlistment at E-3. New 2020.*

**\*\* Archery may be offered as well in marksmanship class. Guidance forthcoming from Cadet Command in a Cadet Comm\*I and Circular. All the schools have equipment.**



North High  
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# MUSIC

NOTE: Participation in any performing ensemble listed includes mandatory attendance at all rehearsals/concerts scheduled outside school hours. It is the student's responsibility to check activity schedules with the director of the ensemble prior to enrolling. Concert attire for each group will be specified in the course syllabus.

## MIXED CHORUS

**190221/190222**

This course is offered to any student who desires a choral experience. It is preparatory for advanced choral participation. The classroom emphasis stresses vocal development in an introduction of basic high school choral literature. Performance opportunities are an extension of the classroom activities. Students are required to participate in all scheduled performances.

**Prerequisite:** None

**Grade Level:** 9, 10, 11, 12    **Status:** Elective

**Duration:** 2 semesters

## CONCERT CHOIR

**190281/190282**

This course is the principal performing choral organization of each high school. Students will rehearse and perform music of all musical periods of history in both accompanied and unaccompanied styles. Performance usually includes fall, winter and spring concerts as well as the All-City Music Festival. Membership is selected by audition.

**Prerequisite:** Audition

**Grade Level:** 9, 10, 11, 12    **Status:** Elective

**Duration:** 2 semesters

## HONORS CONCERT CHOIR

**190351/190352**

This course is the principal performing choral organization of each high school. Students will rehearse and perform music of all musical periods of history in both accompanied and unaccompanied styles. Performance usually includes fall, winter and spring concerts as well as the All-City Music Festival. Membership is selected by audition. This course is an extension of Courses #190281 and #190282 for the serious music student. Advisors guide the students in developing written plans for earning honors credit. Students are required to participate in all scheduled performances.

**Prerequisite:** Audition

**Grade Level:** 9, 10, 11, 12    **Status:** Elective

**Duration:** 2 semesters

## HONORS SHOW CHOIR

**191331/191332**

This course is the principal Show Choir of each high school and receives both an Honors and PE Credit. These advanced choral ensembles, which vary in size are available by audition to students who are simultaneously enrolled in one of the school's principal choral organizations. One of the primary functions of these groups is to serve as "ambassadors" for the school. Choreographed numbers and frequent performance, often requiring time outside of school, must be a student consideration for enrollment and audition. Students are required to participate in all scheduled performances, including competitions in the spring.

**Prerequisite:** Audition or teacher recommendation

**Grade Level:** 9, 10, 11, 12    **Status:** Elective

**Duration:** 1 Semester (Spring)

## VOICE

**190341**

This course is offered to introduce students to private and small groups instruction. Fundamental vocal technique, vocal performance, and solo literature are emphasized. Some type of performance is usually available through student recitals and various programs.

**Prerequisite:** Audition or teacher permission

**Grade Level:** 9, 10, 11, 12    **Status:** Elective

**Duration:** 1 Semester (Spring)

## HONORS JAZZ BAND

**190631/190632**

This course is a high school instrumental ensemble comprised of advanced instrumental students. Various jazz rudiments and improvisation techniques are introduced through a variety of jazz and popular styles of music. Additional assignments and performances may be required for Honors credit.

**Prerequisite:** Audition

**Grade Level:** 9, 10, 11, 12    **Status:** Elective

**Duration:** 2 semesters

**PREP BAND****190571/190572**

This course is intended for high school students with previous instrumental experience but have yet to sharpen their skills sufficiently for membership in the concert band. Appropriate band literature including “method” studies that encourage the development of instrumental technique is rehearsed and performed.

**Prerequisite:** *Teacher recommendation*

**Grade Level:** 9

**Status:** *Elective*

**Duration:** 2 semesters

**CONCERT BAND****190671/190672**

This course is considered the principal performing band in the high school instrumental music curriculum. Students will rehearse and perform standard band literature designed to strengthen basic musicianship and instrumental technique. Membership is by audition. In the senior high school, the Concert Band also serves as the nucleus for the marching band program as a part of the first semester’s activities. Other performances include fall, winter and spring concerts as well as the All-City Music Festival. First semester meets PE graduation requirements.

**Prerequisite:** *Audition or teacher recommendation*

**Grade Level:** 9, 10, 11, 12

**Status:** *Elective*

**Duration:** 2 semesters

**H CONCERT BAND****190681/190682**

This course is considered to be the principal performing band in the high school instrumental music curriculum. Students will rehearse and perform standard band literature designed to strengthen basic musicianship and instrumental technique. Membership is by audition. In the senior high school, the Concert Band also serves as the nucleus for the marching band program as a part of the first semester’s activities. Other performances include winter and spring concerts as well as the All-City Music Festival. Additional assignments and performances will be required for Honors credit. Students are required to participate in all scheduled performances.

**Prerequisite:** *Audition or Teacher Recommendation*

**Grade Level:** 9, 10, 11, 12

**Status:** *Elective*

**Duration:** 2 Semesters

**HS BEGINNING STRINGS****190711/190712**

This course is offered to high school students who have demonstrated an interest in learning to play a string instrument. Appropriate method studies are selected to introduce basic string technique and musical understandings. Instruments included are violin, viola, cello and string bass. Performances outside the school day may be required.

**Prerequisite:** *None*

**Grade Level:** 9, 10, 11, 12

**Status:** *Elective*

**Duration:** 2 semesters

**ORCHESTRA****190851/190852**

This course includes the rehearsal and performance of outstanding symphonic literature from the representative periods of music history. This literature provides for the development of both individual and ensemble skills. Performances include all fall, winter, and spring concerts as well as the All-City Music Festival. Membership is by audition.

**Prerequisite:** *Previous stringed instrumental music experience*

**Grade Level:** 9, 10, 11, 12

**Status:** *Elective*

**Duration:** 2 semesters

**HONORS ORCHESTRA****190791/190792**

This course includes the rehearsal and performance of outstanding symphonic literature from the representative periods of music history. This literature provides for the development of both individual and ensemble skills. Performances include all fall, winter, and spring concerts as well as the All-City Music Festival. High school orchestra members also participate as a pit orchestra for the production of a school’s Broadway musical. Additional assignments and performances will be required to earn Honors credit.

**Prerequisite:** *Audition*

**Grade Level:** 9, 10, 11, 12

**Status:** *Elective*

**Duration:** 2 semesters



**HONORS COLOR GUARD****191221/191222**

The color guard course is considered a principal performing ensemble in the high school instrumental music curriculum. Students will rehearse and perform in the fall and spring semesters through marching band and winter guard. A variety of equipment and techniques are covered in this course, such as: dance/movement, flags, rifles, sabres, and other props. Additional assignments and performances will be required for honors credit. Students are required to participate in scheduled performances. Each semester meets PE graduation requirements.

**Prerequisite:** Audition**Grade Level:** 9, 10, 11, 12**Status:** Elective**Duration:** 2 semesters**PERCUSSION CLASS****190691/190692**

The high school Percussion class is designed to provide students with a comprehensive approach to percussion instruments and techniques. This course will explore various percussion instruments, their history, and their roles in different musical genres and ensembles. Students will develop their skills in playing percussion instruments and gain an understanding of rhythm, timing, and musical expression. Students will develop their skills in keyboard, battery, and auxiliary percussion instruments. The course requires attendance for marching events, pep band events, and all band concerts. First semester meets PE graduation requirements.

**Prerequisite:** Audition or teacher recommendation**Grade Level:** 9, 10, 11, 12**Status:** Elective**Duration:** 2 semesters**MUSIC BUSINESS 1-2****190081/190082**

This course is designed for students in grades 10-12 who have an interest in the business side of the music industry an overview of the music industries and explains how the various segments operate on a day-to-day basis, where monies are generated, who the key players are, how deals are made and broken, how interests are protected, and the new developments in digital technology that are changing the way that music is marketed, promoted, distributed, and heard. The course goals are to provide hands-on, project-based opportunities for the students aligned to student interests to experience development of music industry related concepts and projects and give them employability skills that are considered essential in the music industry. A primary focus is to expose the participating students to the vast array of career opportunities in the music industry that are outside of music performance or music education.

**Prerequisite:** None**Grade Level:** 9, 10, 11, 12**Status:** Elective**Duration:** 2 semesters**MUSIC BUSINESS 3-4****191031/191032**

There will be several hands-on opportunities aligned with students' interests. By the end of this course, the student will: 1. Understand the structure of, and the relationship between the recording, music publishing, marketing, and live performance industries. 2. Learn about different career and income opportunities, and how to develop a strategy to break in and succeed in the music industry. 3. Understand the business aspects involved in producing, manufacturing, marketing, and distributing recorded content. Participate in a project aligned with the music industry including (but not limited to): digital recording, copyrighting original creative material, recording distribution and marketing, live performance management, and performance marketing.

**Prerequisite:** Successful completion of Music Business 1-2**Grade Level:** 10, 11, 12**Status:** Elective**Duration:** 2 semesters**MUSIC TECH 1-2****190971/190972**

This course is the perfect blend of technology and music. Students will be introduced to the skills needed in DJ'ing, Creating Sound Effects and Scores for Movies, Controlling Live Sound for Big Events, Creating their OWN music, Studio Recording & Sampling, and Preparing the best audio recording for Podcasting, Demos and Auditions.

**Prerequisite:** None**Grade Level:** 9, 10, 11, 12**Status:** Elective**Duration:** 2 semesters**MUSIC TECH 3-4****191011/191012**

This course is the perfect blend of technology and music. Students will be introduced to the skills needed in DJ'ing, Creating Sound Effects and Scores for Movies, Controlling Live Sound for Big Events, Creating their OWN music, Studio Recording & Sampling, and Preparing the best audio recording for Podcasting, Demos and Auditions.

**Prerequisite:** Successful completion of Music Tech 1-2.**Grade Level:** 10, 11, 12**Status:** Elective**Duration:** 2 semesters

# PHYSICAL EDUCATION

NOTE: Each Physical Education class can only be taken one time to meet the graduation requirements.

Students may repeat courses for elective credit if space is available and with teacher permission. All classes will be teaching the OPS Health and Fitness Profile and Content Standard #2 curriculum. All students must wear proper attire for Physical Education classes.

## LIFETIME WELLNESS 1-2

070191/070192

Students will learn about health and nutrition. Knowledge of lifetime wellness and fitness will be covered and emphasized. Activities include but are not limited to: walking, toning, fitness concepts and technology, and orienteering. District mandated Fitnessgram will be administered in pre and posttest form.

**Prerequisite:** None

**Grade Level:** 9, 10, 11, 12    **Status:** Meets requirement    **Duration:** 2 semesters

## LIFETIME SPORT AC 1-2

070391/070392

This course provides instruction in activities that students may participate in throughout their lives. These may include: archery, badminton, bowling, golf, ultimate Frisbee, volleyball, softball, tennis, and fitness development. Aquatics are included where facilities permit.

**Prerequisite:** None

**Grade Level:** 9, 10, 11, 12    **Status:** Meets requirement    **Duration:** 2 semesters

## TEAM SPORTS 1-2

070471/070472

This course will consist of instruction in rules, strategies, skills, and sportsmanship concepts. Activities may include: flag football, soccer, volleyball, basketball, team handball, softball, and floor hockey. A fitness unit will be taught.

**Prerequisite:** None

**Grade Level:** 9, 10, 11, 12    **Status:** Meets requirement    **Duration:** 2 semesters

## WEIGHT TRAINING AND CONDITIONING 1-2

070261/070262

This course provides instruction in proper techniques using free weights and machines, as well as other fitness activities, to improve strength, flexibility and aerobic capacity.

**Prerequisite:** None

**Grade Level:** 10, 11, 12    **Status:** Meets requirement    **Duration:** 2 semesters

## ADVANCED WEIGHT TRAINING AND CONDITIONING

070281/070282

This is a second-year class that expands instruction in strength, flexibility and aerobic training.

**Prerequisite:** Successful completion of Weight Training and Conditioning 1-2 with a B or higher

**Grade Level:** 11, 12    **Status:** Meets requirement    **Duration:** 2 semesters

## PE LEADERSHIP 1-2

070381/070382

This co-ed course is ideal for the student athlete who wants to seriously train for high school sports. The course will teach student athletes the proper way to train and the leadership skills which are essential in becoming leaders in the school and out in the community. Physical activities will incorporate balance, neuromuscular coordination, improving basic running technique, various methods of strength training, and flexibility. The goal is to focus on an individual's strengths and weaknesses and to enhance their sport performance and overall athleticism through speed, strength, and movement training. Classroom activities will incorporate nutrition, sport psychology, lessons in leadership, and goal setting. The course will also include a minimum of 8 hours of community service as a component of the class. While this course is recommended for athletes, it is open to all students.

**Prerequisite:** None

**Grade Level:** 9, 10, 11, 12    **Status:** Meets requirement    **Duration:** 2 semesters

**HUMAN GROWTH HS****070931**

This course helps senior high students acquire responsible decision-making skills related to wellness, communication skills, healthy relationships, preventing abuse, chemical usage, sexuality, prenatal care, etc. All senior high school students are required to enroll in one of the Human Growth and Development courses, but a parent/guardian may choose to opt out his/her student.

**Prerequisite:** None**Grade Level:** 10**Status:** Meets requirement**Duration:** 1 semester**SPORTS NUTRITION****140141**

This course focuses on general nutrition, healthy lifestyles, diet choices, and optimal athletic performance.

**Prerequisite:** None**Grade Level:** 9, 10, 11, 12**Status:** Elective**Duration:** 1 semester

# SCIENCE

\*Students develop cognitively, socially and emotionally along different time and interest continuums. For students who are willing and interested in advanced coursework, but do not meet the course prerequisites, an exception may be requested through a conversation involving staff, parents/guardians, and the student.

## PHYSICAL SCIENCE 1-2

060501/060502

Physical Science engages students in the three dimensions (science practices, disciplinary core ideas, and crosscutting concepts) of learning as identified by the Nebraska College and Career Ready Standards for Science. The topics include forces and interactions, waves and electromagnetic radiation, structure and properties of matter, energy, chemical reactions, space systems, weather and climate, and Earth's systems. This course provides a foundation for other science courses and meets the district requirement for Physical Science.

**Prerequisite:** None

**Grade Level:** 9

**Status:** Meets requirement

**Duration:** 2 semesters

## HONORS PHYSICAL SCIENCE 1-2

060531/060532

Honors Physical Science engages students in the three dimensions (science practices, disciplinary core ideas, and crosscutting concepts) of learning as identified by the Nebraska College and Career Ready Standards for Science. The topics include forces and interactions, waves and electromagnetic radiation, structure and properties of matter, energy, chemical reactions, space systems, weather and climate, and Earth's systems. This course provides a foundation for other science courses and meets the district requirement for Physical Science. Students enrolled in honor courses have additional experiences that require a more rigorous program of study.

**Prerequisite:** Teacher Recommendation. Update the prereq for Biology ½ to 'successful completion of Physical Science 1-2

**Grade Level:** 9

**Status:** Meets requirement

**Duration:** 2 semesters

## BIOLOGY 1-2

060411/060412

Biology engages students in the three dimensions (science practices, disciplinary core ideas, and crosscutting concepts) of learning as identified by the Nebraska College and Career Ready Standards for Science. The topics include structure and function, interdependent relationships in ecosystems, matter and energy in organisms and ecosystems, heredity: inheritance and variation of traits, Earth systems, history of Earth, and sustainability. This course meets the district requirement for Biology.

**Prerequisite:** Successful completion of Physical Science 1-2

**Grade Level:** 10

**Status:** Meets requirement

**Duration:** 2 semesters

## HONORS BIOLOGY 1-2

060431/060432

Honors Biology 1-2 engages students in the three dimensions (science practices, disciplinary core ideas, and crosscutting concepts) of learning as identified by the Nebraska College and Career Ready Standards for Science. The topics include structure and function, interdependent relationships in ecosystems, matter and energy in organisms and ecosystems, heredity: inheritance and variation of traits, Earth systems, history of Earth, and sustainability. This course meets the district requirement for Biology. Students enrolled in honors courses have additional experiences that require a more rigorous program of study.

**Prerequisite:** Successful completion of Physical Science ½ with an A or Honors Physical Science 1-2 with a B or higher

**Grade Level:** 10

**Status:** Meets requirement

**Duration:** 2 semesters

## \*AP BIOLOGY 1-2

060471/060472

AP Biology is an introductory college-level biology course. Students evaluate their understanding of biology through inquiry-based investigations as they explore the following topics: evolution, cellular processes – energy and communication, genetics, information transfer, ecology, and interactions. A summer project/writing assignment may be required. This course is aligned with a dual enrollment opportunity for eligible students. All students enrolled in an AP course are required to take either the College Board AP exam in May or an AP Alternative Assessment (exam) approved by OPS. Both exams are cumulative and cover the content of the AP curriculum.

**Prerequisite:** Physical Science 1-2, Biology 1-2, with no grade less than a "C" and teacher recommendation.

**Grade Level:** 11, 12

**Status:** Meets requirement

**Duration:** 2 semesters

**\*HONORS ANATOMY AND PHYSIOLOGY 1-2****060911/060912**

This course enables students to understand the principles and structures of the human body. Students develop an understanding of the structure and function of complex human organ systems through inquiry-based laboratory experience using up-to-date technology. This course will explore career opportunities in medical and related fields. The study and application of vocabulary and terminology is an essential part of this course. Students will incorporate writing and literacy strategies into summative projects. Laboratory dissections are required. Students enrolled in honors courses have additional experiences that require a more rigorous program of study.

**Prerequisite:** Successful completion of *Physical Science 1-2 and Biology 1-2 or teacher recommendation*

**Grade Level:** 10, 11, 12      **Status:** Elective      **Duration:** 2 semesters

**CHEMISTRY 1-2****060551/060552**

This course engages students in both theoretical and practical problem solving strategies as they investigate chemical issues that are relevant to their daily lives. Topics of study include laboratory processes, chemical safety, atomic structure, properties of matter and chemical reactions.

**Prerequisite:** Successful completion of *Biology 1-2 or Physical Science 1-2 and Algebra 1-2 or concurrent enrollment and teacher permission*

**Grade Level:** 10, 11, 12      **Status:** Elective      **Duration:** 2 semesters

**HONORS CHEMISTRY 1-2****060561/060562**

This course engages students in both theoretical and practical problem solving strategies as they investigate chemical issues that are relevant to their daily lives. Topics of study include laboratory processes, chemical safety, atomic structure, properties of matter and chemical reactions. Students enrolled in honors courses will have additional experiences that require a more rigorous program of study.

**Prerequisite:** *Physical Science 1-2, Biology 1-2 (concurrent enrollment in Biology 1-2 is acceptable with teacher recommendation), and successful completion of, or concurrent enrollment in, Algebra 1-2.*

**Grade Level:** 10, 11, 12      **Status:** Elective      **Duration:** 2 semesters

**\*AP CHEMISTRY 1-2****060581/060582**

AP Chemistry provides students with a college-level foundation to support future advanced course work in chemistry. Students cultivate their understanding of chemistry through inquiry-based investigations, as they explore topics such as: atomic structure, intermolecular forces and bonding, chemical reactions, kinetics, thermodynamics, and equilibrium. Advanced educational credit may be available for students who successfully pass the AP Exam. This course is aligned with a dual enrollment opportunity for eligible students. All students enrolled in an AP course are required to take either the College Board AP exam in May or an AP Alternative Assessment (exam) approved by OPS. Both exams are cumulative and cover the content of the AP curriculum.

**Prerequisite:** *Physical Science 1-2, Biology 1-2, Chemistry 1-2, and Algebra 1-2 with no grade less than a "C." Completion of, or concurrent enrollment in, Algebra 3-4 is recommended.*

**Grade Level:** 11, 12      **Status:** Elective      **Duration:** 2 semesters

**EARTH SCIENCE 3-4****061061/061062**

Earth Science 3-4 is an inquiry-based course that builds upon content from Nebraska's earth science standards that were introduced in the Physical Science and Biology 1-2 course sequence. Students use scientific inquiry to further explore concepts of Earth's composition and how it is studied, the history and dynamics of Earth, and the reshaping the Earth's crust, atmosphere, atmospheric forces, and oceans.

**Prerequisites:** *Physical Science 1-2 and Biology 1-2.*

**Grade Level:** 11, 12      **Status:** Elective      **Duration:** 2 semesters



**PHYSICS 1-2****060601/060602**

This course engages students in an inquiry-based problem-solving approach to investigate the physical laws that are fundamental to all science. Topics of study include motion and technological design, the effects of forces on motion, the origin of the universe, conservation of energy and the interaction of energy and matter.

**Prerequisite:** *Successful completion of Biology 1-2 or Physical Science 1-2 and Algebra 1-2 or concurrent enrollment and teacher permission*

**Grade Level:** 10, 11, 12      **Status:** Elective      **Duration:** 2 semesters

**\*AP PHYSICS 1****061661/061662**

Advanced Placement Physics 1 is a year-long course that is the equivalent to a first semester college course in algebra-based physics. The course covers Newtonian mechanics (including rotational dynamics and angular momentum); work, energy, and power; and mechanical waves and sound. It will also introduce electric fields and circuits. This course is aligned with a dual enrollment opportunity for eligible students. All students enrolled in an AP course are required to take either the College Board AP exam in May or an AP Alternative Assessment (exam) approved by OPS. Both exams are cumulative and cover the content of the AP curriculum.

**Prerequisite:** *Successful completion of Physical Science 1-2, Algebra 1-2, and Geometry 1-2 (or concurrent enrollment). Concurrent enrollment or successful completion of Biology 1-2 is recommended*

**Grade Level:** 9, 10, 11, 12      **Status:** Elective      **Duration:** 2 semesters

**\*AP PHYSICS 2****061671/061672**

Advanced Placement Physics 2 is a year-long course that is the equivalent to a second semester college course in algebra-based physics. The course covers fluid mechanics, thermodynamics, electricity and magnetism, optics, relativity, particle physics, and nuclear physics. Advanced educational credit may be available for students who successfully pass the AP Exam. This course is aligned with a dual enrollment opportunity for eligible students but does not include a lab component. All students enrolled in an AP course are required to take either the College Board AP exam in May or an AP Alternative Assessment (exam) approved by OPS. Both exams are cumulative and cover the content of the AP curriculum.

**Prerequisite:** *Successful completion of AP Physics 1*

**Grade Level:** 9, 10, 11, 12      **Status:** Elective      **Duration:** 2 semesters

**\*AP PHYSICS C MECHANICS 1-2****061971/061972**

AP Physics C: Mechanics is a two-semester course that is equivalent to a one-semester, calculus-based, college-level physics course, especially appropriate for students planning to specialize or major in physical science or engineering. The course explores topics such as kinematics; Newton's laws of motion; work, energy, and power; systems of particles and linear momentum; circular motion and rotation; and oscillations and gravitation. Introductory differential and integral calculus is used throughout the course.

**Prerequisites:** *Physics 1-2 or Honors Physics 1-2, concurrent enrollment in, or completion of, Calculus 1-2, or teacher recommendation*

**Grade Level:** 11, 12      **Status:** Elective      **Duration:** 2 Semesters

**PLANTS & PROPAGATION****061401**

This course will offer a survey of the plant kingdom with an emphasis on the structure and function of higher plants. Students will be required to design and conduct a research project on plant growth. Fundamentals of plant propagation will be introduced and implemented.

**Prerequisite:** *Successful completion of Physical Science 1-2*

**Grade Level:** 10, 11, 12      **Status:** Elective      **Duration:** 1 semester

**MARINE BIOLOGY****060821**

Marine Biology 1-2 provides an overview of the marine environment and includes laboratory investigations of selected topics in the content. The use of scientific method, measurement, laboratory apparatus, and safety procedures are integral components of this course. The content includes topics such as the nature of science, the origins of the oceans, chemical, physical, and geological aspects of the marine environment, ecology of various sea zones, marine communities, diversity of marine organisms, the flora and fauna of the marine environment, characteristics of major marine ecosystems, characteristics of major marine phyla/divisions, and the interrelationship between humans and the ocean. Additionally, this course provides opportunities for the students' participation in research, experimentation, dissection, field studies, and decision-making. Selected groups of marine organisms are studied to develop an understanding of biological principles and processes that are basic to all forms of life in the sea. The ocean's role in Earth's climate and weather are discussed, as well as the importance of ocean currents and upwelling.

**Prerequisite:** *Successful completion of biology*

**Grade Level:** 10, 11, 12      **Status:** Elective      **Duration:** 1 semester

**HONORS ENVIRONMENTAL SCIENCE 1-2****060371/060372**

Environmental Science will allow the student to develop insights and skills needed to make decisions regarding the environment. The class will provide the student basic knowledge on ecosystems and how they work. In addition, the student will learn how they affect the environment, what they can do to use the environment wisely, and preserve what was left. This course will include hands-on experience, simulations, and outside activities. In the end, the student will learn about the world they live in. Students enrolled in honors courses have additional experiences that require a more rigorous program of study.

**Prerequisite:** *Successful completion of Biology 1-2 (or concurrent enrollment) or Physical Science 1-2*

**Grade Level:** 10, 11, 12      **Status:** Elective      **Duration:** 2 semesters

**\*AP ENVIRONMENTAL SCIENCE****060361/060362**

The goal of the AP Environmental Science course is to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving or preventing them. Environmental science is interdisciplinary; it embraces a wide variety of topics from different areas of study. Yet there are several major unifying constructs, or themes, that cut across the many topics included in the study of environmental science. This course is aligned with a dual enrollment opportunity for eligible students. All students enrolled in an AP course are required to take either the College Board AP exam in May or an AP Alternative Assessment (exam) approved by OPS. Both exams are cumulative and cover the content of the AP curriculum.

**Prerequisite:** *Physical Science 1-2, Biology 1-2, Honors Chemistry 1-2 is highly recommended, or teacher recommendation*

**Grade Level:** 11, 12      **Status:** Elective      **Duration:** 2 semesters

**UNMC HIGH SCHOOL ALLIANCE**

UNMC High School Alliance is a health sciences enrichment program that partners with the University of Nebraska Medical Center (UNMC) and North to offer unique and innovative science classes to high school juniors and seniors. Through the UNMC High School Alliance program, you can discover exactly what it is like. You'll observe, shadow, and take college-level classes from UNMC's doctors, nurses, pharmacists, physical therapists, public health advocates, researchers and other health care professionals. Courses cover a range of health care topics, such as human anatomy, biomedical research, and medical decision-making. Cores offerings and program opportunities are subject to change from year to year.

**Prerequisite:** *Must apply and be accepted to the program; refer to Career Center page for more details.*

**Grade Level:** 11, 12

# SOCIAL STUDIES

\*Students develop cognitively, socially and emotionally along different time and interest continuums. For students who are willing and interested in advanced coursework, but do not meet the course prerequisites, an exception may be requested through a conversation involving staff, parents/guardians, and the student.

## U.S. HISTORY 1-2

030901/030902

United States History 1-2 explores United States history from the Progressive Era to present day. Students address the social, economic, and political development of the nation and relate it to both past and present. Instruction is organized around the themes of geography, history, economics, cultures, and the elements of citizenship. Students investigate these themes using historical thinking and primary and secondary sources.

**Prerequisite:** None

**Grade Level:** 9

**Status:** Meets requirement

**Duration:** 2 semesters

## HONORS U.S. HISTORY 1-2

030911/030912

United States History 1-2 explores United States history from the Progressive Era to present day. Students address the social, economic, and political development of the nation and relate it to both past and present. Instruction is organized around the themes of geography, history, economics, cultures, and the elements of citizenship. Students investigate these themes using historical thinking and primary and secondary sources. Honors courses have additional opportunities for in-depth course work and application of historical thinking skills.

**Prerequisite:** Successful completion of Social Studies 8 1-2 with a B or higher or MAP Reading score at or above score determined by District Social Studies

**Grade Level:** 9

**Status:** Meets requirement

**Duration:** 2 semesters

## \*AP UNITED STATES HISTORY 1-2

030341/030342

Advanced Placement United States History focuses on developing students' understanding of American history from approximately 1491 to the present. Students investigate the content of United States history for significant events, individuals, developments, and processes in nine historical periods, and develop and use the same thinking skills and methods (analyzing primary and secondary sources, making historical comparisons, chronological reasoning, and argumentation) employed by historians when they study the past. The course also provides seven themes (American and national identity; migration and settlement; politics and power; work, exchange, and technology; America in the world; geography and the environment; and culture and society) that students explore throughout the course in order to make connections among historical developments in different times and places. Concurrent enrollment in AP English is recommended. Students who select NOT to participate in the AP exam are expected to take a cumulative, AP comparable, teacher-graded end of course exam.

**Prerequisite:** Successful completion of previous honors social studies course with B or higher or teacher permission

**Grade Level:** 9, 10, 11, 12

**Status:** Meets requirement

**Duration:** 2 semesters

## INTRODUCTION TO ECONOMICS

030461

This course examines the key concepts of economics through study of various sectors of market systems. Fundamentals, micro, macro, and international economic concepts are presented and studied. Emphasis is given to the role of the citizen in America's market structure. This is a one-semester course.

**Prerequisite:** None

**Grade Level:** 10

**Status:** Meets requirement

**Duration:** 1 semester

**HONORS ECONOMICS****030481**

This course examines the key concepts of economics through study of various sectors of market systems. Fundamentals, micro, macro, and international economic concepts are presented and studied. Emphasis is given to the role of the citizen in America's market structure. Students are required to research and analyze the structure and function of economics in the United States today. This course includes extension activities on the Curriculum Based Assessments (CBA's).

**Prerequisite:** *Successful completion of previous honors social studies course with B or higher or teacher permission*

**Grade Level:** 10

**Status:** *Meets requirement*

**Duration:** 1 semester

**HUMAN GEOGRAPHY****031011**

Human Geography provides an effective method for studying human activities on the Earth's surface. Humans' interactions with one another and the environment are studied and analyzed to provide an understanding of the world in which the students live. The course is divided into four units: Population & Cultural Geography, Urban Geography, Political Geography, and Economic & Environmental Geography.

**Prerequisite:** *None*

**Grade Level:** 10

**Status:** *Meets requirement*

**Duration:** 1 semester

**HONORS HUMAN GEOGRAPHY****031021**

Honors Human Geography provides an effective method for asking questions about places on earth and the places' relationships to the people who live there. The geography, economics, history, culture, and human interaction with the environment are studied and analyzed to provide an understanding of the world in which the students live. This course includes more in-depth research and analysis about the relationship between humans and the environment, including political and societal impacts on the world environment. This is a one-semester course.

**Prerequisite:** *Successful completion of previous honors social studies course with a B or higher or teacher permission*

**Grade Level:** 10

**Status:** *Meets requirement*

**Duration:** 1 semeste

**\*AP HUMAN GEOGRAPHY 1-2****030191/030192**

Advanced Placement Human Geography 1-2 introduces students to the systematic study of patterns and processes that have shaped human understanding, use, and alteration of Earth's surface. Topics are defined by the College Board and include geography, population and migration, cultural patterns and processes, political organization of space, agriculture food production and rural land use, industrialization and economic development, and cities and urban land use. All students enrolled in an AP course are required to take either the College Board AP exam in May or an AP Alternative Assessment (exam) approved by OPS. Both exams are cumulative and cover the content of the AP curriculum.

**Prerequisite:** *Successful completion of previous honors social studies course with a B or higher or teacher permission*

**Grade Level:** 10, 11, 12

**Status:** *Meets requirement*

**Duration:** 2 semesters

**MODERN WORLD HISTORY 1-2****031381/031382**

This course explores the culture and history of people from 1000 C.E. to the present. As students examine the choices and decision of the past, they are higher able to confront today's problems and choices with a deeper awareness of the alternatives before them and the likely consequences of each.

**Prerequisite:** *None*

**Grade Level:** 11

**Status:** *Meets requirement*

**Duration:** 2 semesters

**\*AP WORLD HISTORY 1-2****030421/030422**

Advanced Placement World History 1-2 is a modern world history course. Students cultivate their understanding of world history from c. 1200 CE to the present through analyzing historical sources and learning to make connections and craft historical arguments as they explore concepts like humans and the environment, cultural developments and interactions, governance, economic systems, social interactions and organization, and technology and innovation. Concurrent enrollment in AP English Language and Composition is highly recommended. Students who select not to participate in the AP exam are expected to take a cumulative, AP comparable, teacher-graded end of course exam.

**Prerequisite:** *Successful completion of previous honors social studies course with a B or higher or teacher permission*

**Grade Level:** 11**Status:** *Meets requirement***Duration:** 2 semesters**AMERICAN GOVERNMENT****030251**

This course addresses the theories and practices that are the basis of our nation's form of government. Students analyze the structure, operations, and functions of local, state, and national government in order to higher prepare themselves to practice participatory citizenship as related to their responsibilities and rights as citizens.

**Prerequisite:** *None*

**Grade Level:** 12**Status:** *Meets requirement***Duration:** 1 semester**\*AP U.S. GOVERNMENT AND POLITICS****030261**

This course introduces students to key political ideas, institutions, policies, interactions, roles, and behaviors that characterize the political culture of the United States. The course examines politically significant concepts and themes, through which students learn to apply disciplinary reasoning assess causes and consequences of political events and interpret data to develop evidence-based arguments. All students enrolled in an AP course are required to take either the College Board AP exam in May or an AP Alternative Assessment (exam) approved by OPS. Both exams are cumulative and cover the content of the AP curriculum.

**Prerequisite:** *Successful completion of previous honors social studies course with a B or higher or teacher permission*

**Grade Level:** 12**Status:** *Meets requirement***Duration:** 1 semester**PSYCHOLOGY****030491**

This course explores the complex nature of human behavior. Emphasis is placed upon the most significant concepts of contemporary psychology as well as how psychologists study behavior.

**Prerequisite:** *None*

**Grade Level:** 9, 10, 11, 12**Status:** *Elective***Duration:** 1 semester**\*AP PSYCHOLOGY 1-2****030641/030642**

The AP Psychology course is designed to introduce students to the systematic and scientific study of the behavior and mental processes of human beings and other animals. Students are exposed to the psychological facts, principles, and phenomena associated with each of the major subfields within psychology. They also learn about the ethics and methods psychologists use in their science and practice. All students enrolled in an AP course are required to take either the College Board AP exam in May or an AP Alternative Assessment (exam) approved by OPS. Both exams are cumulative and cover the content of the AP curriculum.

**Prerequisite:** *Successful completion of previous honors social studies course with a B or higher or teacher permission*

**Grade Level:** 10, 11, 12**Status:** *Elective***Duration:** 2 semesters



**SOCIOLOGY****030531**

Sociology explores the structure of society from both a historical and contemporary base. Students examine the ways in which people interact with one another. This involves learning about relationships in social institutions, such as the family, and the organization of societies, both locally and globally. The course also deals with vital issues and social concerns, such as the struggle for civil rights, socialization at a young age, adolescent relationships, crime, poverty, and social stratification.

**Prerequisite:** None**Grade Level:** 9, 10, 11, 12    **Status:** Elective    **Duration:** 1 semester**AFRICAN AMERICAN HISTORY****030521**

African American History examines the African American experience, including history, culture, contributions, and contemporary issues. Emphasis is placed on the contributions of African Americans in the development of an industrialized United States, as well as their importance in the historical record.

**Prerequisite:** None**Grade Level:** 9, 10, 11, 12    **Status:** Elective    **Duration:** 1 semester**\*AP AFRICAN AMERICAN STUDIES 1-2****033211/033212**

This course is designed to offer students an evidence-based introduction to African American Studies. The interdisciplinary course reaches into a variety of fields – literature, the arts and humanities, political science, geography and science – to explore the vital contributions and experiences of African Americans.

**Prerequisite:** Successful completion of any AP or honors social studies course with a B or higher**Grade Level:** 10, 11, 12    **Status:** Elective    **Duration:** 2 semester**OMAHA HISTORY****030711**

Omaha History explores the rich and colorful past of one of America's great cities. From the Native Americans who first settled here, to the diverse ethnic groups who later called this place home. Omaha has possessed a unique, vibrant, and sometimes gaudy history that is full of interesting and inspiring stories of the individuals who have made their marks here. Students also learn about the architecture and cultural institutions that have made the city what it is today.

**Prerequisite:** None**Grade Level:** 9, 10, 11, 12    **Status:** Elective    **Duration:** 1 semester**WOMEN'S HISTORY****030951**

This course examines the major trends in American women's political, social, and cultural history in the United States. By the end of the course, students will be familiar with how gender has structured family relationships, state policies and politics, cultural expectations, and societal norms. By engaging a variety of primary, secondary, and theoretical sources, students will learn how to assess and evaluate the role of gender in American history and situate themselves in contemporary society based on historical context.

**Prerequisite:** None**Grade Level:** 9, 10, 11, 12    **Status:** Elective    **Duration:** 1 semester**LAW AND JUVENILE JUSTICE****030611**

Law and Juvenile Justice focuses on the understanding of American society and its system of laws. Effective participation within America's legal structure is highlighted. The course investigates the structure and implementation of criminal law, the criminal justice process, and the identification and analysis of civil law.

**Prerequisite:** None**Grade Level:** 9, 10, 11, 12    **Status:** Elective    **Duration:** 1 semester

## SPECIAL EDUCATION

Students with disabilities have a variety of course options at the high school level. The intent is to provide the maximum amount of participation in the general education setting through strategic interventions, collaborative teaching and direct instruction. Regular district assessments are administered. Students may participate in:

- General education classes with support to fulfill needs based on the student's IEP. Focus is given to developing learning and study strategies. Students will be expected to define compensatory skills to facilitate active learning in the general education classroom setting. Class activities will include, but not be limited to, time management, goal setting, problem solving, assignment analysis and self-advocacy.
- General education classes that are co-taught by a general education teacher and special education teacher. In a co-taught class, both teachers share instructional responsibilities for the students by co-planning, co-instructing, and co-assessing.

Students with qualifying disabilities may participate in an alternate curriculum focusing on alternate standards and functional living skills. Most instruction for these students is provided by a special education teacher in the core areas with the students participating in general education classes and activities as appropriate. Progress is measured using the state alternate assessment. Students receive an adjusted diploma.

### WORK AWARENESS

**090911/090912**

Alternative Curriculum Program students develop an awareness of the world of work. Students attend worksite in small groups with a para professional. Schedule is arranged by IEP Case Manager. A great deal of guidance and support provided in this phase.

### AFFECTIVE SKILLS

**090751/090752**

This course addresses social skills that can be incorporated into the student's daily living. A practical approach with group discussion and classroom participation is emphasized. Students are encouraged to explore problem-solving skills, decision making skills and skills for independence. Communication and positive self-esteem are fostered.

**Prerequisite:** IEP Team Decision

**Grade Level:** 9, 10, 11, 12    **Status:** Elective

**Duration:** 1 or 2 semesters



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# WORLD LANGUAGES

## FRENCH 1-2

160301/160302

## GERMAN 1-2

160401/160402

## SPANISH 1-2

160501/160502

This course in World Languages at the first-year level stresses interpretive, presentational, and interpersonal communication abilities to develop basic skills to communicate in the target language (goal to reach novice mid proficiency level). Students identify how languages support their personal and economic opportunities and how languages enhance their College or Career choice Pathway in the United States and globally. They also develop appreciation of the various cultures associated with that language as well as the impact these cultures have made on their own community, country, and world.

**Prerequisite:** *Successful completion of English Language Arts in middle school or English course in high school*

**Grade Level:** 9, 10, 11, 12

**Status:** Elective

**Duration:** 2 semesters

## FRENCH 3-4

160311/160312

## GERMAN 3-4

160411/160412

## SPANISH 3-4

160511/160512

This course in World Languages at the second-year level is a continuation and expansion of the principles and concepts of the first year (proficiency level of Novice High). During this time, students continue to work extensively with interpretive, presentational, and interpersonal communication skills while also delving more extensively into language structure within context of themes tied to other contents and to College and Career. Students continue to develop appreciation of the various cultures associated with that language as well as the impact these cultures have made on their own community, country, and world.

**Prerequisite:** *Successful completion of language 1-2 course with a D or higher*

**Grade Level:** 9, 10, 11, 12

**Status:** Elective

**Duration:** 2 semesters

## HONORS FRENCH 5-6

160351/160352

## HONORS GERMAN 5-6

160451/160452

## HONORS SPANISH 5-6

160551/160552

This third-year level World Languages course (proficiency levels- Intermediate low and mid) emphasizes using the target language to a greater extent in increasingly complex interpretive, presentational, and interpersonal communication skills. Students will explore a variety of fiction and non-fiction genres in the target language tied to content area themes and to careers. Students are expected to write coherent paragraphs, short stories, and outlines. Students continue to develop appreciation of the various cultures associated with that language as well as the impact these cultures have made on their own community, country, and world.

**Prerequisite:** *Successful completion of language 3-4 course with a C or higher*

**Grade Level:** 10, 11, 12

**Status:** Elective

**Duration:** 2 semesters

**HONORS FRENCH 7-8****160361/160362****HONORS GERMAN 7-8****160461/160462****HONORS SPANISH 7-8****160561/160562**

This course in World Languages at the fourth-year level will often center around discussions and reports. Students interpretive, presentational, and interpersonal communication skills become advanced in order to develop the student's ability to produce the language in more complicated forms. Reading will move to comparatively complex forms of authentic materials, readings tied to other content areas and careers, and literature. The study of cultures, art, music, poetry, and literature continues to be stressed. Students continue to develop appreciation of the various cultures associated with that language as well as the impact these cultures have made on their own community, country, and world.

**Prerequisite:** Successful completion of Honors language 5-6 course with a C or higher

**Grade Level:** 11, 12

**Status:** Elective

**Duration:** 2 semesters

**SPANISH FOR SPANISH SPEAKERS 1-2****160851/160852**

This course is designed for students who speak Spanish in different levels but have difficulty reading and writing the language. Most of these students feel more comfortable speaking, reading, and writing in English. Students will develop basic Spanish literacy skills along with gaining a deeper knowledge of the culture, history, and literature of the Spanish language. The course is taught in Spanish.

**Prerequisite:** Native Spanish Speaker

**Grade Level:** 9,10, 11, 12

**Status:** Elective

**Duration:** 2 semesters

**SPANISH FOR SPANISH SPEAKERS 3-4****160851/160852**

This course is designed for fluent Spanish speakers who have basic Spanish skills in reading, writing, speaking, and listening. The course is taught in Spanish and focuses on developing a Spanish speaker's writing and reading comprehension of the Spanish language. Students read short stories, poetry, and write longer passages in Spanish.

**Prerequisite:** Successful completion of Spanish for Spanish Speakers 1-2 with a C or higher

**Grade Level:** 10, 11, 12

**Status:** Elective

**Duration:** 2 semesters

**PURSUEING THE SEAL OF BILITERACY****A10000**

This course is designed for counselor to add to a student's planner. Students pursuing the Nebraska Seal of Biliteracy will need to take 3-4 years of a language course followed by taking the AP Language exam. Seal can also be obtained taking three years of Spanish for Spanish Speakers.

**Prerequisite:** None

**Grade Level:** 9, 10, 11, 12

**Status:** Elective

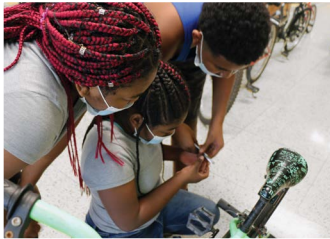
**Duration:** 3-4 years







# Nebraska Seal of Biliteracy



## Purpose

The Nebraska Seal of Biliteracy acknowledges a high school student achieving a high level of proficiency in English and at least one additional language.

## What

The Nebraska Seal of Biliteracy is presented as a certificate, and a seal that can be attached to a student's diploma and listed on the student's transcript.

## Why

The ability to communicate in multiple languages is an asset when applying for a job or for college admission.

## How

Submit an application online through the Nebraska Department of Education ([bit.ly/NebraskaSeal](https://bit.ly/NebraskaSeal)) — all parts of the application can be completed online.

## The Result

There is a Gold Seal and a Silver Seal — awarded according to the results of identified proficiency exams.

## 5 Steps to Apply

- 1: Check English language proficiency.
- 2: Check language proficiency other than English.
- 3: Go to [bit.ly/NebraskaSeal](https://bit.ly/NebraskaSeal) and apply.
- 4: Wait for NDE World Language to verify materials.
- 5: Get the Seal and be marked on your transcript.

Visit Nebraska Seal of Biliteracy Assessment Requirements for more information. ([bit.ly/NESealrequirements](https://bit.ly/NESealrequirements))

If you have any questions,

please contact your World Languages Teacher for more information.





# NEBRASKA COLLEGE PREPARATORY ACADEMY

Students that are accepted to the Nebraska College Preparatory Academy will be required to take the following courses:

## UNIVERSITY PREPARATORY

### ACADEMIC SUCCESS SEMINAR (GRADE 9)

**200101/200102**

The purpose of this course is to supplement what NCPA students are learning in the classroom thus bridging the gap between high school and college with the goal of making students more successful throughout high school and on the University of Nebraska Lincoln campus. This course will focus on helping students to master the transition from junior high to high school and teaching students the skills and strategies of an effective student/learner.

**Prerequisite:** *Acceptance to the Nebraska College Preparatory Academy*

**Grade Level:** 9

**Status:** *Elective*

**Duration:** *2 semesters*

## UNIVERSITY PREPARATORY

### ACADEMIC SUCCESS SEMINAR (GRADE 10)

**200111/200112**

The purpose of this course is to supplement what NCPA students are learning in the classroom thus bridging the gap between high school and college with the goal of making students more successful throughout high school and on the University of Nebraska Lincoln campus. This course will continue to focus on teaching students to be effective learners, but it will also include specific instruction and work in critical and abstract thinking and reading as well as strategies for effectively balancing life/responsibilities and school.

**Prerequisite:** *Acceptance to the Nebraska College Preparatory Academy*

**Grade Level:** 10

**Status:** *Elective*

**Duration:** *2 semesters*

## UNIVERSITY PREPARATORY

### ACADEMIC SUCCESS SEMINAR (GRADE 11)

**200121/200122**

The purpose of this course is to supplement what NCPA students are learning in the classroom thus bridging the gap between high school and college with the goal of making students more successful throughout high school and on the University of Nebraska Lincoln campus. This course will focus on specific thinking, demonstration and content knowledge required of successful college student. In addition, curriculum will include standardized testing instruction.

**Prerequisite:** *Acceptance to the Nebraska College Preparatory Academy*

**Grade Level:** 11

**Status:** *Elective*

**Duration:** *2 semesters*

## UNIVERSITY PREPARATORY

### ACADEMIC SUCCESS SEMINAR (GRADE 12)

**200131/200132**

The purpose of this course is to supplement what NCPA students are learning in the classroom thus bridging the gap between high school and college with the goal of making students more successful throughout high school and on the University of Nebraska Lincoln campus. This course will focus almost exclusively on the Capstone Research Project required by NCPA. This will include instruction in proper research techniques, paper compilation, and project completion.

**Prerequisite:** *Acceptance to the Nebraska College Preparatory Academy*

**Grade Level:** 12

**Status:** *Elective*

**Duration:** *2 semesters*





# North High

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4410 North 36th Street • Omaha, NE 68111  
(531)-299-2700  
[www.ops.org/North](http://www.ops.org/North)

Facebook: @OPSNorthHigh  
Instagram: @ops\_northhigh  
X: @OPS\_NorthHigh

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Las Escuelas Públicas de Omaha no discrimina por motivos de raza, color, origen nacionalidad, religión, sexo (incluyendo el embarazo), estado civil, orientación sexual, discapacidad, edad, información genética, identidad de género, expresión de género, estatus de ciudadanía, condición de veterano, afiliación política o condición económica en sus programas, actividades y empleo y se proporciona un acceso equitativo a los niños exploradores (boy scouts) y otros grupos juveniles. La siguiente persona ha sido designada para aceptar las alegaciones en relación con las políticas de no discriminación: el Superintendente de Escuelas, 3215 Cuming Street, Omaha, NE 68131 (402-557-2001). Las siguientes personas han sido designadas para manejar las preguntas con respecto a las políticas de no discriminación: Director de la Oficina de Equidad y Diversidad, 3215 Cuming St, Omaha, NE 68131 (531-299-0307).