

Omaha North

HIGH SCHOOL



2022-23 COURSE GUIDE



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School History

North High School opened in September 1924. North opened as an eighth through twelfth grade school and had 650 students its first year. The building's first principal was Edward E. McMillian. In 1983, North was designated a magnet school focused on math, science, and technology. In 1993, the school completed a \$20 million renovation that included the Viking Center, renovation of the library, and the addition of the multipurpose physical education and athletics facility. In the early 2000's, North shifted its magnet focus to specialize in the fields of science, engineering and technology. To complement this focus, in 2010 a new four-story 32,092-square foot addition was added. It consists of science, media technology, engineering classrooms, and labs space, as well as a wrestling practice room in the basement. With this building, 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 (PTLW) pathway in Biomedical Science, Computer Science and Engineering. Omaha North also offers a comprehensive math curriculum with multiple opportunities for college credit and advanced coursework. We also offer over 40 clubs and organizations available to all students, every Viking can find a place where they belong



**Omaha North High School
Course and Registration Guide
2022-2023**



Principal's Greeting

Welcome to the North High Viking Family. We are excited to have you join a tradition of excellence that continues with you. We invite you to explore the various course offerings through our Academies and corresponding pathways to identify and develop your strengths and talents. You will experience project based in learning in our STEM courses that will broaden your perspective on future college, career, and service endeavors.

Our Freshman Academy will provide intensive support with the transition to high school as well as the chance to explore our STEM Academies leading to a cohesive and strategic course of study.

Returning students will be able continue their selected pathway, cultivate new opportunities, and demonstrate their knowledge through innovative projects and experiential learning. All students will have access to high quality core courses (including Honors, AP, & Dual Enrollment), outstanding school counseling/advising services and ongoing support to promote their academic, social, emotional, and behavioral development.

We look forward to collaborating with students, parents/guardians, and community partners to advance our mission to prepare all students for success in lifelong studies and careers. We truly believe and soon you will see that North High is the #Place2be!

Mission Statement

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

Vision Statement

The vision statement of Omaha 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.

Course and Registration Guide

2022-2023

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Omaha Public Schools Graduation College Entrance Requirements

OPS GRADUATION REQUIREMENTS		COLLEGE ENTRANCE REQUIREMENTS*
SUBJECT	CREDITS	YEARS
English	8 CREDITS Grade 9 – English 1 & 2 Grade 10 – English 3 & 4 Grade 11 – English 5 & 6 Grade 12 – English 7 & 8	4 years Fulfilled by OPS requirements
Social Studies	7 CREDITS Grade 9 – U.S. History 1 & 2 Grade 10 – Human Geography & Intro to Economics Grade 11 – World History 1 & 2 Grade 12 – American Government	3 years Fulfilled by OPS requirements
Mathematics	6 CREDITS Grade 9 – Math as Recommended Grade 10 – Math as Recommended Grade 11 – Math as Recommended	3 years Algebra 1-2, Geometry 1-2, Algebra 3-4, UNL – One additional year of math beyond Algebra 3-4
Science	** 6 CREDITS Grade 9 – Physical Science 1 & 2 Grade 10 – Biology 1 & 2 Grade 11 – Science Elective	3 years Fulfilled by OPS requirements UNL, UNO, UNK – 2 years must be selected from Biology, Chemistry, Physics, or Earth Science
Physical Education	4 CREDITS	
Human Growth & Development	1 CREDIT	N/A
Personal Finance	1 CREDIT Grade 12 – Personal Finance	
Electives	16 CREDITS <i>Consider education plans and interests</i>	
World Language	N/A	2–3 years of the same language
TOTAL	49 CREDITS REQUIRED <i>For all OPS High Schools</i>	

RECOMMENDED ON TRACK INDICATORS

Grade Level	9 - Freshman	10 - Sophomore	11 - Junior	12 - Senior
Credits Earned	13 credits	25 total credits	37 total credits	49 total credits <small>in Required subjects</small>

Note: 49 Credits are required to graduate.

*NEBRASKA COLLEGE ENTRANCE REQUIREMENTS:

Metro Community College and other Nebraska Community Colleges – Proof of graduation from an accredited high school. Nebraska State College System – Chadron, Peru, Wayne – Proof of graduation from an accredited high school.

University of Nebraska System – UNO, UNL, UNK (in line with NCAA requirements) – *See your OPS District Student Handbook*

Students and parents/guardians should research the requirements of each institution to ensure that students have selected appropriate courses.

For students attending King Science Technology Magnet who take Biology and Physical Science their sequence could look different at their respective high schools. For students who have successfully completed Physical Science in 8th grade, their sequence will begin with Biology.*





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, or honors classes. Math and Science classes are dependent upon the level achieved in middle school.

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

COURSE DROPS

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 three courses 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



A	■	3.26 - 4.00
B	■	2.51 - 3.25
C	■	1.76 - 2.50
D	■	1.01 - 1.75
F	■	0.00 - 1.00

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**
Monitor your assignments by period by specific class or due date.
- Attendance**
Review attendance records in summary and detail form.
- Grades**
Review your grades on-line. Forget about end-of-term report cards to know how you're doing.
- Food Services**
Opt-in or opt-out for the Free Lunch feature in this application. To check your lunch account balance, see the SchoolCafe on the SPDS home 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 access your device to our district's Infinite Campus service, 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 forget your username or password go to:

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

Omaha Public Schools Common Grading Practices



How will mastery be evaluated?



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.

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.

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.

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.





AP/Dual Enrollment Program

What is Dual Enrollment?

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 OPS through two primary programs:

- 1) **Advanced Placement (AP)**
- 2) **Career Education (CE).**

Dual Enrollment Benefits.

Reduced Tuition Cost. Participating students have a reduced tuition rate or may qualify for FREE tuition through a scholarship program authorized by the Nebraska State Legislature.

MCC: \$50 per course.

UNO: \$250 per course.

Midland U: \$250 per course

*Tuition Costs are determined by the postsecondary institution.

The Omaha Public Schools District 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, they may be eligible for FREE tuition. The ACE scholarship program pays mandatory tuition fees for qualified high schools 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, most notably the free and reduced lunch program. 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

Course Title	Dual Enrollment Institution and Credit Hours
AP 3D Art & Design	
AP Biology	UNO-3 credits
AP Calculus AB	UNO-5 credits
AP Calculus BC	UNO-10 credits
AP Chemistry	Midland-3 credits +1 lab credit
AP Comparative Government & Politics (one semester)	UNO-3 credits
AP Computer Science A	UNO-3 credits
AP Computer Science Principles	UNO-3 credits
AP English Language & Composition	MCC-4.5 credits
AP English Literature & Composition	UNO-6 credits
AP Environmental Science	UNO-3 credits
AP Human Geography	
AP Music Theory	
AP Physics 1	
AP Physics 2	
AP Psychology	
AP Statistics	UNO-3 credits
AP United States Government & Politics (one semester)	UNO-3 credits
AP United States History	
AP World History: Modern	
Honors Cybersecurity	UNO-3 credits
Honors Calculus III	UNO-3 credits
Honors Differential Equations	UNO-3 credits
Honors Intro to Education	UNO-3 credits
Honors Technical Communication	MCC-9 credits
Machine Tool I	MCC-9 credits
Machine Tool II	MCC-9 credits
Machine Tool III	MCC-9 credits
Machine Tool IV	MCC-9 credits
CNC I	MCC-9 credits
CNC II	MCC-9 credits
Print Reading	MCC-3 credits
Precision Machine Safety/Principles	MCC-4 credits + OSHA Certification
AutoCAD Essentials	MCC-9 credits

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 building administrator involved, with the object of resolving the matter informally.

Level Two: Chief Academic Officer Curriculum and Instruction and Support

If the course placement appeal is not resolved at Level One 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 so as to accommodate the registration of courses for the school year in question.

Grade Point Average (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:

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

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:

- 12TH GRADE STATUS ONLY
- No failing grade in a core class (English, social studies, math or science) the previous semester.
- An overall 2.00 GPA.
- Limited to 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 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

#Adulting	German Club	Outdoor Club
African-American History Challenge	Gender Sexualities Alliance	Plants Club
Art Club/NAEA	Golden Vikings Dance Team	Principal's Student Advisory
Bands of North	Health Occupation Students of America (HOSA)	Powerlifting
Black Student Leadership	International Robotics Honor Society (IRHS)	Robotics
Cheerleading/Dance	JROTC Color Guard	Science Club
Chess Club	Junior Class/Prom	Science Olympiad
Clay Club	Just Friends	Science Quiz Bowl
Culture Club	Louder Than a Bomb Poetry Club	Senior Class
DECA	Mathematics (Mu Alpha Theta)	SkillsUSA
Drama Club & Int'l Thespian Society	National Honor Society	Spanish Club
Educators Rising	National Society of Black Engineers	Speech & Debate
French Club	Newspaper/Yearbook	Student Ambassadors
Future Business Leaders of America (FBLA)	Omaha North Vocal Music	Student Council
German-American Exchange		Student STEM Advisors
		TEAMS

*Clubs are subject to change each year

Athletics

Baseball	Golf	Tennis
Basketball	Soccer	Track/Field
Bowling	Softball	Volleyball
Cross Country	Swimming	Wrestling
Football		



one opportunity. LIMITLESS Possibilities.

If you want to play sports at an NCAA Division I or II school, start by registering for a Certification Account with the NCAA Eligibility Center at eligibilitycenter.org. If you want to play Division III sports or you aren't sure where you want to compete, start by creating a Profile Page at eligibilitycenter.org.

ACADEMIC REQUIREMENTS

To play sports at a Division I or II school, you must graduate from high school, complete 16 NCAA-approved core courses, earn a minimum GPA and earn an ACT or SAT score that matches your core-course GPA.

CORE COURSES

Only courses that appear on your high school's list of NCAA core courses will count toward the 16 core-course requirement; visit eligibilitycenter.org/courselist for a full list of your high school's approved core courses. Complete 16 core courses in the following areas:

Division I

Complete 10 NCAA core courses, including seven in English, math or natural/physical science, before your seventh semester.



Division II



GRADE-POINT AVERAGE

The NCAA Eligibility Center calculates your grade-point average based only on the grades you earn in NCAA-approved core courses.

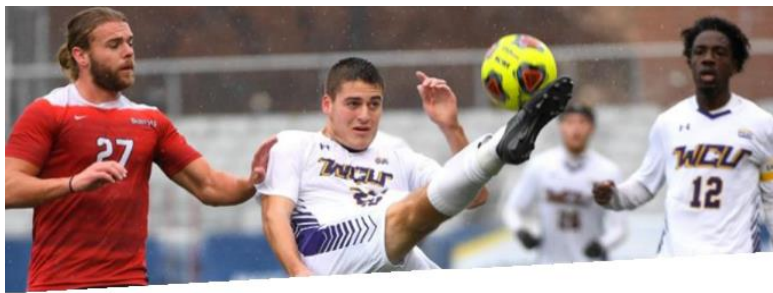
- DI requires a minimum 2.3 GPA.
- DII requires a minimum 2.2 GPA.

SLIDING SCALE

Divisions I and II use sliding scales to match test scores and GPAs to determine eligibility. The sliding scale balances your test score with your GPA. If you have a low test score, you need a higher GPA to be eligible. Find more information about test scores at ncaa.org/test-scores.

TEST SCORES

You may take the SAT or ACT an unlimited number of times before you enroll full time in college. Every time you register for the SAT or ACT, use the NCAA Eligibility Center code 9999 to send your scores directly to us from the testing agency. We accept official scores only from the ACT or SAT, and won't use scores shown on your high school transcript. If you take either test more than once, the best subscore from different tests are used to give you the best possible score.



High School TiMELine



• *Start planning now!* Take the right courses and earn the best grades possible.

- Find your high school's list of NCAA-approved core courses at eligibilitycenter.org/courselist.
- Sign up for a free Profile Page at eligibilitycenter.org for information on NCAA requirements.



• If you fall behind academically, ask your counselor for help finding approved courses you can take.

- Register for a Profile Page or Certification Account with the NCAA Eligibility Center at eligibilitycenter.org.
- Monitor your Eligibility Center account for next steps.
- At the end of the year, ask your counselor at each high school or program you attended to upload your official transcript to your NCAA Eligibility Center account.



• Check with your counselor to make sure you are on track to complete the required number of NCAA-approved courses and graduate on time with your class.

- Take the ACT or SAT and submit your scores to the NCAA Eligibility Center using code 9999.
- Ensure your sports participation information is correct in your Eligibility Center account.
- At the end of the year, ask your counselor at each high school or program you attended to upload your official transcript to your NCAA Eligibility Center account.



• Complete your final NCAA-approved core courses as you prepare for graduation.

- Take the ACT or SAT again, if necessary, and submit your scores to the NCAA Eligibility Center using code 9999.
- Request your final amateurism certification beginning April 1 (fall enrollees) or Oct. 1 (winter/spring enrollees) in your NCAA Eligibility Center account at eligibilitycenter.org.
- After you graduate, ask your counselor to upload your final official transcript with proof of graduation to your NCAA Eligibility Center account.
- *Reminder:* Only students on an NCAA Division I or II school's institutional request list will receive a certification.

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

$$4 \times 4 = 16$$

9TH GRADE

- (1) English
- (1) Math
- (1) Science
- (1) Social Science and/or additional

4 CORE COURSES

10TH GRADE

- (1) English
- (1) Math
- (1) Science
- (1) Social Science and/or additional

4 CORE COURSES

11TH GRADE

- (1) English
- (1) Math
- (1) Science
- (1) Social Science and/or additional

4 CORE COURSES

12TH GRADE

- (1) English
- (1) Math
- (1) Science
- (1) Social Science and/or additional

4 CORE COURSES

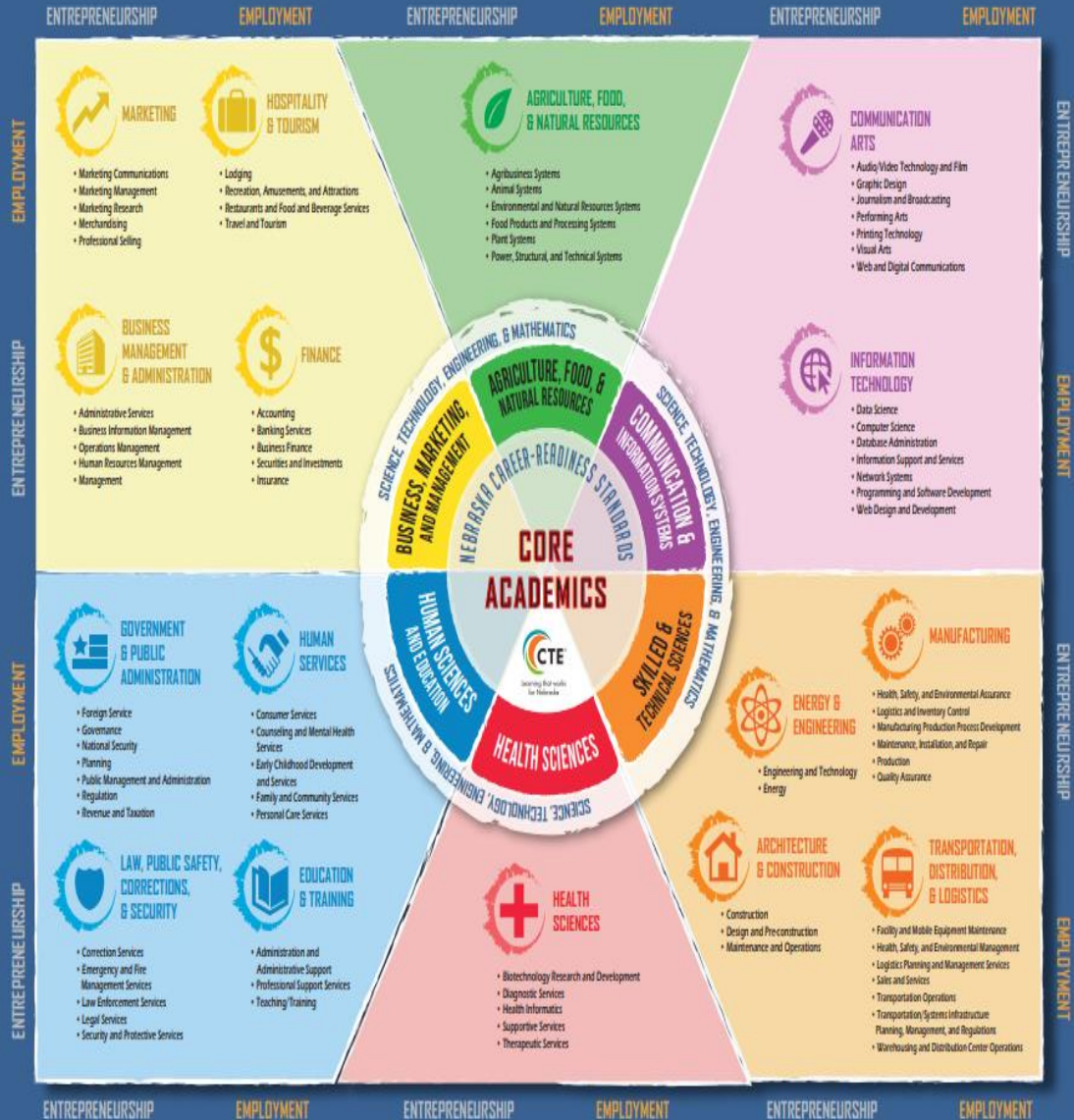
For more information: ncaa.org/playcollegesports | eligibilitycenter.org

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NEBRASKA CAREER & TECHNICAL EDUCATION MODEL



www.CESStandards.education.ne.gov

ADAPTED FROM NASDCTE/NCCTEF CAREER CLUSTERS: PATHWAYS TO COLLEGE AND CAREER READINESS. DEVELOPED BY THE NEBRASKA DEPARTMENT OF EDUCATION

It is the policy of the Nebraska Department of Education to ensure that all students have the opportunity to receive a quality education. This document is intended to provide information on the various career and technical education programs available in the state. It is not intended to represent the policy of the State of Nebraska.

This program is funded through the Carl D. Perkins Career and Technical Education Act of 2009, administered through the Nebraska Department of Education. However, the contents do not necessarily represent the policy of the State of Nebraska. Department of Education, and you should refer to the Nebraska Department of Education website for the most current information.



MCC Career Academies



Dual Credit

Students may earn college credit and high school elective credit by completing an MCC Career Academy.

Who? Students eligible for this program must fit the following profile:

- Be a high school junior or senior and be on track to graduate
- Be 16 years old
- Have transportation to and from classes and internship/apprenticeship site
- Complete an application and be selected to participate (See counselor for application)

Cost? Students are responsible for paying tuition. MCC Career Academies are offered at half price tuition.

*Funding for tuition may be available for certain academy programs pending donor contributions.

Time of MCC Career Academies classes: Most academies meet between 12:30 - 4:00pm, Monday-Thursday.

OPS Juniors and Seniors participating in the MCC Career Academy programs will be given “release time” to attend the classes during the school day. OPS students will follow the MCC schedule and code of conduct. When MCC classes are not in session (Friday’s) during an OPS school day, students will be released from high school at the time they would normally leave campus. Students may use this release time for part-time employment, volunteer service, or other opportunities. If MCC has classes scheduled when OPS is not in school, students are expected to attend those classes.

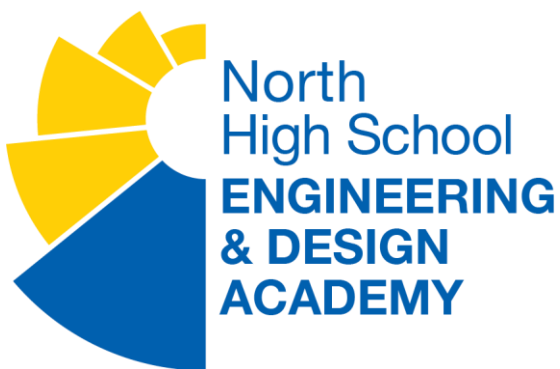
Application: Students must complete an application. Deadlines do apply and space is LIMITED. Admission is not guaranteed. Notify Secondary Partnerships Supervisor, Mrs. Jane Luethge @ 531-299-3892 or jane.luethge@ops.org when you have completed applications or for additional information.

Available MCC Career Academies

Course	Description	Tuition Cost
<u>Diesel Technology</u>	Located at the MCC Applied Technology Center at 10407 State Street. Students learn the components of the diesel engine, the fundamentals of transmissions and torque converters, and an overview of diesel engine technology.	\$814.00
<u>Fire Science Technology</u>	Located at the MCC Applied Technology Center at 10407 State Street. Students learn about fire, firefighting, and EMT training.	\$980.50
<u>Heating, Air Conditioning and Refrigeration (HVAC)</u>	Located at MCC Fort Omaha Campus at 30 th and Fort. Students learn heating, air conditioning, ventilation, and refrigeration.	\$740.00
<u>Pre-Apprenticeship Plumbing</u>	Located at MCC Fort Omaha Campus at 30 th and Fort. Students learn about residential and commercial plumbing, construction plumbing safety and more.	\$684.50
<u>Utility Line Technician</u>	Located at the MCC Applied Technology Center at 10407 State Street. Students learn installation, operation, and maintenance of electrical utility lines.	\$888.00

****additional career academies may be available if approved by Omaha Public Schools.**

MCC Webpage <https://www.mccneb.edu/Current-Students/Enrollment/Secondary-Partnerships/Career-Academy.aspx>





Freshman Academy

The freshman academy structure is designed to ensure academic success for all freshmen 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
Required Freshman Courses	English 1-2 (H)	Physical Science (H) OR Biology (H)	Algebra 1-2 (H) OR Geometry 1-2 (H)	US History (H) OR AP US History	Freshman Seminar
Optional Exploratory Electives	Art, Vocal Music, Instrumental Music, World Languages, JROTC, Journalism, Physical Education, Omaha History, African American History, Sociology, or any first-year career academy pathway course				

Suggested Activities:

#Adulging, African American History Challenge, Athletics, Art Club, Bands of North, Black Student Leadership Council, Cheerleading, Chess Club, Clay Club, Culture Club, French Club, Plays and Musicals, Potato Club, Principal's Advisory, Robotics, Role-Playing Club, Skills USA, Science Club, Science Olympiad, Student STEM Advisors, Student Council

FRESHMAN ACADEMY

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, 10, 11, 12 *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 better OR Successful completion of Honors English Language Arts 8 1-2 with a B or better 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 is an inquiry-based course designed to expose students to selected concepts in chemistry, physics, earth, and space science. Topics include matter, energy, forces and motion; Earth in space, and Earth structures and processes. 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

Physical Science is an inquiry-based course designed to expose student to selected concepts in chemistry, physics, earth, and space science. Topics include matter, energy, forces and motion, Earth in space, and Earth structures and processes. 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 student.

Prerequisite: Successful completion of Science 8 1-2 with B or better and concurrent enrollment in Algebra 1-2 or higher math course or MAP Math Score at or above score determined by District Math and MAP Science score at or above a score determined by District Science.

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

BIOLOGY 1-2**060411/060412**

This course engages students in inquiry-based problem solving as they investigate biological issues that are relevant to their daily lives. Topics of study include the cell; the molecular basis of heredity; biological evolution; the interdependence of organisms; and the matter, energy, and organization in living systems. 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**

This course engages students in inquiry-based problem solving as they investigate biological issues that are relevant to their daily lives. Topics of study include the cell; the molecular basis of heredity; biological evolution; the interdependence of organisms; and the matter, energy, and organization in living systems. This course meets the district requirement for biology. Students enrolled in honors courses will 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 better, or MAP Science score at or above score determined by District Science.

Grade Level: 10 **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. **Students who took Algebra 1-2 at the middle school and did not receive a grade of a B or better must begin in Algebra 1-2.**

Prerequisite: None

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

HONORS ALGEBRA 1-2**040281/040282**

This course is the honors section of Algebra 1-2. It covers traditional algebra topics including operations with signed numbers and polynomials, solving first-and second-degree equations, verbal problems, systems of linear equations, graphing and writing linear equations and inequalities, and simplifying exponential expressions. As an honors class, these topics will be covered in greater depth and with enrichment.

Prerequisite: Successful completion of Pre-Algebra 1-2 with an A; MAP Math score at or above score determined by District Math; or Orleans-Hanna Prognosis Test Score at or above 75

Grade Level: 9 **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 an A, or Honors Algebra 1-2 with a B or better, 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 better 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 CollegeBoard 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 previous honors social studies course with B or better or teacher permission.

Grade Level: 9, 10, 11, 12

Status: Meets requirement

Duration: 2 semesters



Computer Science and Technology Academy

Pathways: 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	Freshman Academy AND 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

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 AB, AP Calculus BC, H Personal Finance, AP Physics, AP Chemistry, AP Computer Science courses, H. Cybersecurity

COMPUTER SCIENCE AND TECHNOLOGY ACADEMY

PLTW COMPUTER SCIENCE PATHWAY

PLTW COMP SCI 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

131311/131312

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. While this course can be a student's first in computer science, students without prior computing experience are encouraged to start with Introduction to Computer Science. 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

130791/130792

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 CollegeBoard 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

131411/131412

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

131421/131422

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: 10, 11, 12

Status: Elective

Duration: 2 semesters

PLTW CYBERSECURITY 1-2

131411/131412

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

*****COURSE LISTED BELOW WILL BE OFFERED IN 2024-2025:*****

Cybersecurity 3-4

TBD

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 ESSENTIAL 1-2

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 (CISCO 1-2)

130621/130622

This course introduces the architecture, structure, functions, components, and models of the Internet and other computer networks. The principles and structure of IP addressing and the fundamentals of Ethernet concepts, media and operations are introduced to provide a foundation for the curriculum. By the end of this course, students will be able to build simple LANs, perform basic configurations for routers and switches and implement IP addressing schemes.

Prerequisite: Successful completion IT Essentials 1-2

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

HONORS NETWORKING 3-4 (CISCO 3-4)

130631/130632

This course describes the architecture, components and operations of routers and switches in a larger and more complex network. Students learn how to configure routers and switches for advanced functionality. By the end of this course, students will be able to configure and troubleshoot routers and switches and resolve common issues with OSPF, EIGRP, STP, and VTP in both IPv4 and IPv6 networks. Students will also develop the knowledge and skills needed to implement DHCP and DNS operations in a network.

Prerequisite: Successful completion of Honors Networking 1-2.

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

AUDIO VIDEO PRODUCTION PATHWAY

DIGITAL MEDIA 1

130691

Students will create, design, and produce digital media including sound, video, graphics, text, animation, and web design. 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

Description: 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

*****COURSE LISTED BELOW WILL BE OFFERED IN 2023-2024:*****

AUDIO VIDEO PRODUCTION 1-2

TBD

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 1 and Audio Video Foundations

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

*****COURSE LISTED BELOW WILL BE OFFERED IN 2024-2025:*****

AUDIO VIDEO PRODUCTION 3-4

TBD

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.

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



Engineering and Design Academy

Pathways: 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	Freshman Seminar AND H. Introduction to Engineering	Freshman Seminar	Freshman Seminar	Freshman Seminar	Journalism Speech and Debate
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	Chemistry (H) Physics 1-2 (H) AP Physics 1 AP Environmental Science
11	One or More: H. Civil Engineering and Architecture; H. Digital Electronics; H. Computer Integrated Manufacturing	Machine Tool 3-4	Mechanical Design 3-4	Industrial Robotics 3-4	Sociology Psychology African American History Omaha History Foreign Language Performing and Fine Arts
12	H. Engineering Design and Development	CNC AND Manufacturing 1-2	Mechanical Design 5-6	Industrial Robotics 5-6	Other Engineering and Design Academy Pathway Courses

Career and Technical Student Organizations:

SkillsUSA, SAME, ACE

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 AB, AP Calculus BC, H Personal Finance, 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. **Concurrent enrollment in Honors NCOT English 1-2 and Honors NCOT Algebra 1-2 or higher.**

Prerequisite: Successful completion of Algebra 1-2 with a B or better

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. **Concurrent enrollment in Honors NCOT English 3-4 and Honors NCOT Geometry 1-2 or higher.**

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. **Concurrent enrollment in college preparatory mathematics course.**

Prerequisite: None

Grade Level: 10, 11, 12

Status: Elective

Duration: 2 semesters

HONORS COMPUTER INTEGRATED MANUFACTURING

171111/171112

Manufactured items are part of everyday life, yet most students have not been introduced to the high-tech, innovative nature of modern manufacturing. This course illuminates the opportunities related to understanding manufacturing. At the same time, it teaches students about manufacturing processes, product design, robotics, and automation. Students can earn a virtual manufacturing badge recognized by the National Manufacturing Badge system. **Concurrent enrollment in college preparatory mathematics course.**

Prerequisite: None

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. **Concurrent enrollment in college preparatory mathematics course.**

Prerequisite: Successful completion of 3 years of PLTW coursework.

Grade Level: 12

Status: Elective

Duration: 2 semesters

PRECISION MACHINING PATHWAY

MACHINE TOOL 1-2

171971/171972

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. Students focus on safety as well as setup and accuracy of completed projects. This course is dual enrolled for college credit.

Prerequisite: Acceptance to Precision Machining Pathway through application process.

Grade Level: 10, 11, 12

Status: Elective

Duration: 2 semesters

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.

Prerequisite: Acceptance to Precision Machining Pathway through application process.

Grade Level: 10, 11, 12

Status: Elective

Duration: 1 semester

MECHANICAL BLUEPRINT READING 1

170382

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.

Prerequisite: Acceptance to Precision Machining Pathway through application process.

Grade Level: 10, 11, 12

Status: Elective

Duration: 1 semester

MACHINE TOOL 3-4

171981/171982

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.

Prerequisite: Successful completion of Machine Tool 1-2 with a C or better.

Grade Level: 11, 12

Status: Elective

Duration: 2 semesters

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 3-4 with a C or better.

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

*****COURSE LISTED BELOW WILL BE OFFERED IN 2023-2024:*****

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

*****COURSE LISTED BELOW WILL BE OFFERED IN 2024-2025:*****

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 are introduced to the fundamentals and concepts of Robotics including Engineering, Mechanical Foundations and Programming. Students will work on projects individually and as a team to develop their understanding of the engineering design process, building a functional robot, and programming the robot to perform required tasks using logic-based control and simple sensors. Participants must pass a safety test during the first two weeks of class.

Prerequisite: None

Grade Level: 10, 11, 12

Status: Elective

Duration: 2 semesters

*****COURSE LISTED BELOW WILL BE OFFERED IN 2023-2024:*****

Industrial Robotics 3-4

172731/172732

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 including programming and using robotics arms. Examples would include structural design, weight distribution, drivetrains, pneumatic controls, alternative methods of transferring motion and in-depth precision programming control. Students will be introduced into the fundamentals of Industrial Robots.

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

Grade Level: 11, 12

Status: Elective

Duration: 2 semesters

*****COURSE LISTED BELOW WILL BE OFFERED IN 2024-2025:*****

Industrial Robotics 5-6

172741/172742

Student will thoroughly examine robotics design problem, develop an original possible solution, and document the stages of the design process. The problem will require student 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 structural design, weight distribution, drivetrains, pneumatic controls, alternative methods of transferring motion and in-depth precision programming control. Students will learn to program and the use of a Fanuc Robotic arm.

Prerequisite: Successful completion of Industrial Robotics 3-4.

Grade Level: 12

Status: Elective

Duration: 2 semesters



Science and Research Academy

Pathways: PLTW Engineering, Precision and Machining, Drafting and Design, and Robotics and Automation

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

Career and Technical Student Organizations
EdRising and HOSA

Work-Based Learning Experience

Internships, job shadowing, college and career fair with 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 AB, AP Calculus BC, H Personal Finance, 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 PTLW 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 with a B or better.

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

074061

This course is designed to introduce students to career opportunities and related skills in the Health Science career field. Students will explore topics related to; health informatics, biotechnology research, therapeutic certificated services, behavioral health, life span performance and allied/public health. This course also focuses on cost and educational requirements of health science professions, ethical and legal responsibilities, the history and economics of health care.

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

*****COURSES LISTED BELOW WILL BE OFFERED IN 2023-2024.*****

DATA AND USE

TBD

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: TBD

Grade Level: 11,12

Status: Elective

Duration: 1 semester

HEALTH INFORMATICS

TBD

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: TBD

Grade Level: 11,12

Status: Elective

Duration: 1 semester

*****COURSE LISTED BELOW WILL BE OFFERED IN 2024-2025.*****

DATA AND USE

TBD

In this advanced course students study and design solutions to problems facing health-care systems. Students explore the following questions through project or problem-based scenarios: How can the health-care system work more efficiently and economically? How do we address health-care issues in rural locations? How can various community organizations work together to improve the health of the community?

Prerequisite: TBD

Grade Level: 12

Status: Elective

Duration: 2 semesters

*****COURSE LISTED BELOW WILL BE OFFERED IN 2025-2026:*****

H SCIENCE SEMINAR 1-2

060871/060872

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: TBD

Grade Level: 11, 12

Status: Elective

Duration: 2 semesters

NATURAL AND ENVIRONMENTAL SCIENCES PATHWAY

ENVIRONMENTAL SCIENCE 1-2

060351/060352

Environmental Science 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.

Prerequisite: Successful completion of Physical Science 1-2

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

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 CollegeBoard 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

*****COURSE LISTED BELOW WILL BE OFFERED IN 2023-2024:*****

ENVIRONMENTAL WATER TECHNOLOGY 1-2

TBD

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: TBD

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

*****COURSE LISTED BELOW WILL BE OFFERED IN 2024-2025:*****

INLAND ECOSYSTEMS 1-2

TBD

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: TBD

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

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. 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

*****COURSES LISTED BELOW WILL NOT BE OFFERED UNTIL 2023-24*****

BEST PRACTICES IN EDUCATION

141181/141182

This course is a continuation of the Introduction to Education and Training course and is the second course in a three 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 third course in this sequence). Classroom, laboratory, and educational leadership activities are supplemented through Nebraska Educators Rising, a career and technical student organization.

Prerequisite: None

Grade Level: 10-12

Status: Elective

Duration: 2 semesters

FIELD EXPERIENCE IN EDUCATION TRAINING**141191/141192**

This course is a continuation of the Best Practices in Education and Training course and is the third course in a three course sequence. Through this capstone experience, students will apply previously developed knowledge and skills into a structured workplace experience. 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*

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

Duration: *2 semester*

ART

ART 1-2

110211/110212

This course offers beginning art students a foundation in basic drawing skills, design elements and principles, and color theory as they create original art works in a variety of media. 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 be examining important works of art from a variety of cultures and time periods, participating in critiques of art works, and discussing aesthetic issues.

Prerequisite: None

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

ART 3-4

110251/110252

This course offers an expansion of skills and knowledge of drawing and design concepts, and further exploration of techniques and media, including watercolor and/or acrylic painting. Students will explore aesthetic issues, examine and discuss historically important art works from a variety of cultures, using the language of art criticism. 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.

Prerequisite: Successful completion of Art 1-2 with a C or better or teacher permission.

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

ART 5-6

110291/110292

This course offers serious art students the opportunity to apply the elements and principles of design to advanced projects in a variety of media (i.e.: various techniques of printmaking, painting, and/or sculpture). 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 engage in art criticism and aesthetic discussion as they explore various time periods and cultures from an art historical perspective. Students will keep a drawing and reflection sketchbook.

Prerequisite: Successful completion of Art 3-4 with a C or better or teacher permission.

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

HONORS ART 7-8

110341/110342

This course is a culmination of a sequential art experience for twelfth grade students. It provides selected students the opportunity to individualize projects to enhance their own styles in one or more media, while further exploring the philosophical and historical aspects of art. Honors requirements are: attend formal exhibits and submit exhibit review and critiques; write an in-depth research papers; complete written abstracts about artists and their work; refine individual work exhibition and/or competition each semester; complete a comprehensive portfolio of their work; and keep a drawing and reflection sketchbook.

Prerequisite: Successful completion of Art 5-6 with a C or better or teacher permission.

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

POTTERY 1-2

110461/110462

This course explores hand-built pottery and wheel thrown techniques in terms of form, function and cultural expression. A background in drawing, design and color is recommended. 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 about pottery produced by artisans from various cultures and times, and use the critical process to evaluate their own work, as well as examples taken from art history.

Prerequisite: None

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

POTTERY 3-4**110471/110472**

This course will enable students to further develop hand building and wheel throwing skills, while they continue to study the development of pottery styles and techniques through history and in various cultures. Aesthetic issues related to form and function, the inherent expressive qualities of clay, and identifying good craftsmanship will be an ongoing part of the study. In addition to art production, students will use a variety of learning strategies including reading, analyzing and responding to develop a deeper understanding of ceramic art.

Prerequisite: Successful completion of Pottery 1-2 with a C or better or teacher permission.

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

POTTERY 5-6**110681/110682**

This course is an advanced, individualized course providing selected students an opportunity to individualize projects, enhancing their style in the medium while further exploring the philosophical and historical aspects of clay art. 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 style, participating in workshops and mixing glazes.

Prerequisite: Successful completion of Pottery 3-4 with a C or better or teacher permission.

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

HONORS POTTERY 7-8**110861/110862**

This course is an advanced individualized course providing selected students an opportunity to individualize projects, enhancing their personal style and voice in the medium while further exploring the philosophical and historical aspect of clay art. Focus is on developing projects for each student based on her/his preferred building methods, skill levels and chosen themes. Students will complete research, keeping a pottery journal/sketchbook, becoming current with contemporary ceramic artists and styles, and mix glazes. Clay building methods will include: slab, coil, wheel throwing and the incorporation of mixed media.

Prerequisite: Successful completion of Pottery 5-6 with a C or better or teacher permission.

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

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 bases on questions, through practice, experimentation and revision. Both sections of the portfolio require students to articulate information about their work. **A summer project will be required for this class.**

Prerequisite: Successful completion of two years of upper level art courses with a B or better or teacher permission.

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

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

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*

BUSINESS, MARKETING AND INFORMATION TECHNOLOGY

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

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: 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

INTRODUCTION TO DIGITAL DESIGN

130601/130602

This course will introduce students to the technical tools and processes used in digital design. Students will be introduced to the design process model which includes typography, color, and imagery. In addition, design software will be utilized to create graphic, animation, web pages, and video. Students will demonstrate proper use of fair use guidelines and will explore career opportunities.

Prerequisite: None

Grade Level: 9, 10, 11, 12

Status: Elective

Duration: 2 semesters

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: 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 better or teacher permission.

Grade Level: 10, 11, 12

Status: Elective

Duration: 2 semesters

MARKETING INTERNSHIP 1-2

188701/188702

The 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. **Concurrent enrollment in Marketing 1-2.**

Prerequisite: Teacher approval

Grade Level: 9, 10, 11, 12

Status: Elective

Duration: 2 semesters

MARKETING INTERNSHIP 3-4

188711/188712

The 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. **Concurrent enrollment in Marketing 3-4 required.**

Prerequisite: Successful completion of Marketing 1-2 and Marketing Internship 1-2 with a C or better; Teacher approval

Grade Level: 10, 11, 12

Status: Elective

Duration: 2 semesters

INFORMATION TECHNOLOGY APPLICATIONS 1-2**130951/130952**

Students will explore emerging technologies as it applies to their success for high school, college, and career. The focus will be on the importance of digital citizenship, professional communication practices, advanced document processing, professional presentations, and intermediate spreadsheet applications uses personally and professionally.

Prerequisite: Successful completion of middle school Computer Applications III with a C or better.

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

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

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



THE PATHWAYS *of* The Career Center

ALL Students can ATTEND!

- Hands-on Learning
- Bus Transportation provided
- Critical Employability Skills
- Earn Industry Certifications
- Access to Early College Credit
- Internships/ Apprenticeships
- Network with Employers



Applications are in your email!
Career Center Application 22-23.... [Dec 2021](#)

**Connecting Today's Students
With Tomorrow's Careers**

22-23 Enrollment

11 Pathways

- Student Career Plan
- Industry Certifications
- Early College Credit
- Workplace Learning Experiences
- Skills USA Student Organization

In High Wage, High Skill, & High Demand Careers



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.

Core/Academic Courses

(10, 11, 12) 1 Credits/Semester

- Experience contextualized core academic courses in English, Math, and others!

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 at

<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 Doory Zoo campus. (Nov. 2020 due date)

Access Zoo Academy Application at

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

COMPUTER SCIENCE INFORMATION TECHNOLOGY

*****COURSES LISTED BELOW ONLY FOR CLASS OF 2023 AND 2024*****

HONORS AUDIO AND VIDEO TECHNOLOGY 1-2

131291/131292

Students will expand their digital media skills of interviewing, writing, editing, photography/videography, digital audio composition and design. Students will explore careers while working together to create projects in a variety of media, such as web, podcast, and/or broadcast. The emphasis of audio and video production is on collaboration and career exploration.

Prerequisite: Successful completion of Honors Digital Media with a B or better.

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

HONORS AUDIO AND VIDEO TECHNOLOGY 3-4

131301/131302

Students will focus on developing skills to plan and create audio visual productions and web design projects. Students will explore careers while working together to create projects in a variety of media, such as web, podcast, and /or broadcast. The emphasis of audio and video production is on collaboration and project management.

Prerequisite: Successful completion of Honors Audio and Video Technology 1-2 with a B or better.

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

HONORS AUDIO VIDEO TECHNOLOGY CAPSTONE

188831/188832

Students will expand their digital media skills of interviewing, writing, editing, photography/videography, digital audio composition and design. Students will explore careers while working together to create projects in a variety of media such as web, podcast, and/or broadcast. The emphasis of Honors Audio Video Technology Capstone is to work both independently and collaboratively to create a professional product while meeting deadlines.

Prerequisite: Successful completion of 3 years of Media Technology courses with a B or better.

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

ENGINEERING AND DESIGN

*****COURSES LISTED BELOW ONLY FOR CLASS OF 2023 AND 2024*****

CAD DESIGN/ENGINEERING 3-4

170221/170222

This course will further develop skills introduced in CAD/Design Engineering 1-2 to produce complete, accurate drawings. Applications to architecture and machine tool drawing will be emphasized. Continued development of board drafting skills and CAD skills will be stressed.

Prerequisite: Successful completion of CAD Design/Engineering 1-2 with a C or better. Geometry 1-2 recommended.

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

HONORS CAD/DESIGN ENGINEERING 5-6

170301/170302

This course will further refine skills developed in CAD/Design Engineering 3-4 to produce drawings in either architectural or machine tool drafting. Continued development of board drafting skills will be stressed.

Prerequisite: Successful completion of CAD Design/Engineering 3-4 with a C or better. Geometry 1-2 recommended.

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

ROBOTICS CONCEPTS 3-4

172151/172152

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 or Honors Intro to Robotics 1-2.

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

ADV 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

INDUSTRIAL MATERIALS AND PROCESSES 1-2

170331/170332

This course provides the opportunity for students to learn how to use hand tools and power equipment. Students will construct, assemble, and complete products using many materials and processes that permit better understanding of construction and manufacturing techniques. Projects are constructed using wood, metals, and plastics. **This course requires students to pass safety tests for each unit.** Without a passing grade on these tests, students cannot participate in labs and will receive a score of 0 on assignments in that unit that require the skills on the test.

Prerequisite: None

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

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.*

LITERACY SKILLS

01181/011182

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 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 better OR Successful completion of Honors English Language Arts 8 1-2 with a B or better 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: None

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

HONORS ENGLISH 3-4

010421/010422

This course provides a more rigorous and intensive study of the language arts skills of reading, writing, speaking and listening as described in English 3-4. Students will read a variety of narrative and informational texts and produce five writing pieces in the following modes: descriptive, narrative, analytical, expository, persuasive, argumentative, and technical. Additional course work is required above and beyond the regular English 3-4 course. **A summer project is required for this class.**

Prerequisite: Successful completion of Honors English 1-2 with a B or better and teacher recommendation.

Grade Level: 10 **Status:** Meets requirement **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: None

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 CollegeBoard 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 Honors English 3-4 with a B or better and 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: None

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 CollegeBoard 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 Honors English 5-6 or AP English Language and Composition with a B or better and teacher recommendation.

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

HONORS TECHNICAL COMMUNICATION

011741/011742

Honors Technical Communication is designed to facilitate critical thinking, close reading, technical writing, and public speaking. Students will focus on the development of technical information to facilitate interaction with technology and solve complex problems through verbal and written expression. Students will engage in research and writing processes to produce a variety of technical documents appropriate for Precision Machining and STEM fields. Dual enrollment options may be available.

Prerequisite: None

Grade Level: 12

Status: Meets requirement

Duration: 2 semesters

HONORS ADVANCED CREATIVE WRITING

020371/020372

This course is a workshop-style elective course providing students with opportunities to write and share verse, fiction, discursive prose, and drama. Students in all grade levels are challenged to enhance their communication skills, extend their appreciation of language, express themselves creatively, and collaborate with other writers. Course may be taken for multiple semesters or years.

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

Grade Level: 10, 11, 12

Status: Elective

Duration: 1 or 2 semesters

HONORS HUMANITIES

010951/010952

This humanities course in genocide will use a variety of texts and lenses by which to examine genocide and, more broadly, human rights, from the start of the twentieth century to the present day. An examination of genocide is a look not only at the very worst aspects of humanity, but also sometimes at the very best aspect of humanity. In this class, students will have the opportunity to process ideas about difficult subjects in a safe environment, to think about the world in which they live, and to consider ways in which to make it better, more just, peaceful place. Students in this junior-senior level humanities course should expect a reasonable amount of reading and writing, in addition to Socratic Seminar, guest speakers, and experienced learning experiences including local field trips as well as the potential to take trips to further their study.

Prerequisite: Successful completion of English course with a C or better.

Grade Level: 11, 12

Status: Elective

Duration: 2 semesters

PHOTOJOURNALISM 1

020841

In addition to learning to create written pieces through the development of photographs, this course includes DSLR camera operations, lighting, composition, photo editing techniques for print or computer-mediated publication applications. Emphasis is placed on using the camera as a reporting tool in conjunction with design to publish their work. Legal and ethical issues involving photojournalism will also be addressed.

Prerequisite: Successful completion of English Language Arts 8 1-2 with a B or better or teacher recommendation.

Grade Level: 9, 10, 11

Status: Elective

Duration: 1 semester

DIGITAL JOURNALISM 1

020451

Digital Journalism focuses on a variety of media platforms for the 21st century, placing emphasis on the laws and ethics of both online and video journalism which include the development of skills in online newspaper and web design, podcasts, news broadcasting and social media. Students will understand what digital citizenship is in addition to acquiring skills that help to prepare them for advanced journalism courses.

Prerequisite: Successful completion of Photojournalism 1 or Journalism 1 and teacher permission.

Grade Level: 9, 10, 11

Status: Elective

Duration: 1 semester

HONORS DIGITAL JOURNALISM 3-4

022451/022452

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

Prerequisite: Successful completion of Journalism 1-2, Honors Journalism 1-2 or both Photojournalism 1 or Digital Journalism 1 with B or better and teacher permission.

Grade Level: 10, 11, 12

Status: Elective

Duration: 2 semesters

HONORS DIGITAL JOURNALISM 5-6

022551/022552

Course description is similar to Honors Digital Journalism 3-4. Students will assume additional responsibilities and assignments. This course is for second year digital journalism students.

Prerequisite: Successful completion of Honors Digital Journalism 3-4 with B or better and teacher permission.

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

HONORS DIGITAL JOURNALISM 7-8

022651/022652

Course description is similar to Honors Digital Journalism 5-6. Students will assume additional responsibilities and assignments. This course is for third year digital journalism students.

Prerequisite: Successful completion of Honors Digital Journalism 5-6 with a B or better and teacher permission.

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

JOURNALISM 1-2

020411/020412

This course introduces students to the entire field of journalism. Students will learn law and ethics; various modes of journalistic writing, reporting, and interviewing; and newspaper/yearbook layout and design. They will also learn basics of photography, digital citizenship, and online media. Students are expected to work individually and collaboratively. It prepares students for any of the honors publication classes such as yearbook, newspaper, and digital journalism.

Prerequisite: Successful completion of English course with a B or better or teacher permission.

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

HONORS JOURNALISM 1-2

020531/020532

This course introduces students to the entire field of journalism. Students will learn law and ethics; various modes of journalistic writing, reporting, and interviewing; and newspaper/yearbook layout and design. They will also learn basics of photography, digital citizenship, and online media. Students are expected to work individually and collaboratively. It prepares students for any of the honors publication classes such as yearbook, newspaper, and digital journalism. **In addition, students will work on an ongoing portfolio project that they will be expected to work on outside of the class.**

Prerequisite: Successful completion of English course with a B or better.

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

HONORS YEARBOOK 1-2

020471/020472

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 Journalism 1-2, Honors Journalism 1-2, or both Photojournalism and Digital Journalism with a B or better and teacher permission.

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

HONORS YEARBOOK 3-4

020431/020432

Course description similar to Honors Yearbook 1-2. 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 better and teacher permission.

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

HONORS YEARBOOK 5-6

021431/021432

Course description is similar to Honors Yearbook 1-2 and Honors Yearbook 3-4. 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 better and teacher permission.

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

HONORS NEWSPAPER 1-2

020481/020482

Students enrolled in this course will be responsible for the print and/or online production of the school newspaper. Students will work individually and collaboratively on their assignments. Quality writing, editing, advertising, photography, and layout design skills are emphasized.

Prerequisite: Successful completion of Journalism 1-2, Honors Journalism 1-2, or both Photojournalism and Digital Journalism with a B or better and teacher permission.

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

HONORS NEWSPAPER 3-4

023191/023192

Course description is similar to Honors Newspaper 1-2. Students will assume additional responsibilities and assignments. This course is for second year newspaper students.

Prerequisite: Successful completion of Honors Newspaper 1-2 with a B or better and teacher permission.

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

HONORS NEWSPAPER 5-6

021191/021192

Course description is similar to Honors Newspaper 1-2 and Honors Newspaper 3-4. Students will assume additional responsibilities and assignments. This course is for third year newspaper students.

Prerequisite: Successful completion of Honors Newspaper 3-4 with a B or better and teacher permission.

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

EDITORIAL LEADERSHIP

022751/022752

Students enrolled in this class must also be enrolled concurrently in Honors Yearbook 3-4, Honors Newspaper 3-4, or Digital Journalism 5-6 or 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, Honors Newspaper, or Honors Digital Journalism with a B or better and teacher permission. Exceptions may be made for Honors Yearbook 1-2, Honors Newspaper 1-2, and Honors Digital Journalism 3-4 students who have been moved to an editorial leadership position.

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

STAGECRAFT 1-2

020681/020682

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: Successful completion of Drama 1-2 with a C or better.

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

ADVANCED STAGECRAFT 1-2

020691/020692

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 1-2 with a B or better or teacher permission.
Grade Level: 11, 12 **Status:** Elective **Duration:** 2 semesters

DEBATE 1-2

020561/020562

This course provides instruction in the fundamentals of debate, including an emphasis on the debate format, terminology and research techniques. Students will participate in the debate process by completing research to find evidence to build affirmative and negative cases as they apply the terminology and processes which they have learned to actual debate formats. Students will be required to attend two tournaments per semester outside of class time.

Prerequisite: Successful completion of English course with a C or better.
Grade Level: 10, 11, 12 **Status:** Elective **Duration:** 2 semesters

HONORS DEBATE 1-2

021561/021562

This course provides instruction in the fundamentals of debate, including an emphasis on the debate format, terminology and research techniques. Students will participate in the debate process by completing research to find evidence to build affirmative and negative cases as they apply the terminology and processes which they have learned to actual debate formats. Students will be required to attend two tournaments per semester outside of class time. Honors Debate 1-2 provides additional debate opportunities which may include additional work at a higher cognitive level.

Prerequisite: Successful completion of English course with a B or better or teacher permission.
Grade Level: 10, 11, 12 **Status:** Elective **Duration:** 2 semesters

HONORS ADVANCED DEBATE

020581/020582

This course prepares students to participate in competitive debate settings; students learn to use knowledge and experience gained in previous courses and debate activities to prepare for and to debate students from other schools in organized competitions. Students will be required to attend two tournaments per semester outside of class time.

Prerequisite: Successful completion of Debate 1-2 with a C or better.
Grade Level: 11, 12 **Status:** Elective **Duration:** 2 semesters

AP SEMINAR

010801/010802

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; listening to and viewing speeches, broadcasts, and personal accounts; and experiencing artistic works and performances. 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. 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: .None
Grade Level: 10, 11, 12 **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 Pathway (for ELs with Formal Education history)				
Year 1 in US School- Beginning Level ELs	A Day	B Day	Considerations	Summer courses for accrual purposes (June and/or July)
	ESL 1-2	ESL 1-2		ESL Enrichment (June & July) arrival after March, RWM focused rotation with discourse
	Recommended Math Placement for ELs	Optional EL co-requisite math support course: ESL Math Prep 1-2 (elective) taught by EL teacher	EL Math screener: Courses in math progression: Math Essentials* (creative offering - offered virtually) Pre-Algebra 1-2 Algebra 1-2 *Math Essentials is a math credit bearing course taught by Math teacher	Math Essentials 1 (June) Math Essentials 2 (July)
	Science Foundations 3-4	ESL Social Studies Foundations 1-2	Continue foundational language and literacy development in social studies context; overview of Units of Study covered in US History taught in MS	
	Elective	PE	Academy/Pathway overview course as elective	
Year 2 in US School- Early Intermediate Level ELs	A Day	B Day	Considerations	Summer courses for accrual purpose (June and/or July)
	ESL 3-4	ESL 3-4		Geography and Economics (June)
	Recommended Math Placement for ELs	Academy or Pathway Course	Courses in math progression: Pre-Algebra 1-2 Algebra 1-2	Academic Literacy (reading support course)
	ESL Reading 3-4	P.E.	ESL Reading 3-4 - reworked course (focus on academic language development)	
	Physical Science	US History 1-2 ELL	Sheltered course taught by Social Studies/EL endorsed teacher	
Year 3 in US School - Intermediate Level ELs	A Day	B Day	Considerations	Summer courses for accrual purpose (June and/or July)
	English 1-2 ELL	ESL 5-6	Taught by English/EL endorsed teacher	English 3 and/or English 4 (for ex: Eng 3 in June, Eng 4 in July)
	Recommended Math Placement for ELs	Biology	Courses in math progression: Algebra 1-2 Geometry	Eng 3 only (June)
	Elective OR Geography (if not taken in summer of Year 2)	Elective OR Economics (if not taken in summer of Year 2)	Academic Literacy (possible elective)	Possible online course English 4 (July)
	World History 1-2	Academy or Pathway Course	Taught by content-area/EL endorsed teacher	
Year 4 in US School- 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	Set criteria in order to be eligible to take English 5-6 and English 7-8 at the same time	English 7-8 (through Accelerere) if a student must take Eng 3-4 during school year
	Personal Finance	American Government		
	Suggested Academy or student interest-based science elective	Recommended Math		
	Academy or Pathway Course	Elective		

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: None

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 3-4

155171/155172

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 is required for registration in this course.

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 FOUNDATIONS 1-2**159311/159312**

This ESL Teen Literacy Center course provides instruction in basic math concepts and academic vocabulary. The focus is on basic literacy and numeracy skills preparation. Topics include representing, counting, comparing and ordering whole numbers, as well as time, money, and basic computation. This course continues instruction in basic math concepts and academic vocabulary with an emphasis on providing opportunities for producing language about mathematical vocabulary concepts. Topics include number sense, computation of numbers in addition and subtraction, word problems, and basic geometry shapes and attributes.

Prerequisite: None

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

ESL MATH PREP 1-2**155301/155302**

This co-requisite course is intended for beginning proficiency level English learners, who are also enrolled in an appropriate math course. The focus of the course will be to build math literacy (language and vocabulary for math.). Course curriculum includes math discourse development. (e.g., academic vocab, how to unpack math word problems, academic conversations about math) and foundational skills review. Curriculum for this course is aligned to the English Language Proficiency standards and is in support of academic language development required for mathematics.

Prerequisite: None

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

ACADEMIC LANGUAGE STUDY**010371/010372**

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

****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. **Students who took Algebra 1-2 at the middle school and did not receive a grade of a B or better must begin in Algebra 1-2.**

Prerequisite: None

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

HONORS ALGEBRA 1-2

040281/040282

This course is the honors section of Algebra 1-2. It covers traditional algebra topics including operations with signed numbers and polynomials, solving first- and second-degree equations, verbal problems, systems of linear equations, graphing and writing linear equations and inequalities, and simplifying exponential expressions. As an honors class, these topics will be covered in greater depth and with enrichment.

Prerequisite: Successful completion of Pre-Algebra 1-2 with an A; MAP Math score at or above score determined by District Math; or Orleans-Hanna Prognosis Test Score at or above 75

Grade Level: 9 **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 an A, or Honors Algebra 1-2 with a B or better, or MAP Math score at or above score determined by District Math

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. For incoming freshmen that are not ready for an Honors Algebra 3-4, it is highly recommended to begin in Honors Algebra 1-2.**

Prerequisite: Successful completion of Geometry 1-2.

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 better, or MAP Math score at or above score determined by District Math.

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

PRE-CALCULUS/TRIGONOMETRY**040381/040382**

This course includes topics of mathematics that are necessary for the successful study of calculus. Topics include polar coordinates, right triangle trigonometry, circular functions, logarithms, and graphs of rational and polynomial relations and functions.

Prerequisite: Successful completion of Algebra 3-4 with a C or better.

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

HONORS PRE-CALCULUS/TRIGONOMETRY**040411/040412**

This course is the honors section of Pre-calculus/Trigonometry. This course includes topics of mathematics that are necessary for the successful study of calculus. Topics include polar coordinates, right triangle trigonometry, circular functions, logarithms, and graphs of rational and polynomial relations and functions. Students enrolling in this course should have successfully completed both semesters of Honors Algebra 3-4 with proficient or advanced grades.

Prerequisite: Successful completion of Honors Algebra 3-4 with a B or better or teacher permission.

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

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 Honors Pre-Calculus/Trigonometry with a B or better.

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

AP CALCULUS AB**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 CollegeBoard 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 Honors Pre-Calculus/Trigonometry with a B or better or teacher permission.

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

AP CALCULUS BC

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 CollegeBoard 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 Honors Pre-Calculus/Trigonometry with a B or better or teacher permission.

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 with a B or better.

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 with a B or better.

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

AP STATISTICS

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. **All students enrolled in an AP course are required to take either the CollegeBoard 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. Non-seniors must be enrolled concurrently with Calculus (AB or BC or H Calculus 3).**

Prerequisite: Successful completion of Honors Pre-Calculus/Trigonometry with a B or better or teacher permission.

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



OPS Modular Math Dual Enrollment

OPS Modular Math Dual Enrollment is a program offered through Metropolitan Community College and is designed to equip high school seniors with the math skills necessary to successfully enter a college level math class after graduation. Students attend an MCC Modular Math class as part of their regular high school schedule, however, the course is a self-paced curriculum delivered in an online format. Upon successful completion, students will have earned both OPS high school credit as well as Metropolitan Community College credits.

Courses Available:

After students select to enroll in MCC Modular Math, they can choose from two sequences of courses:

The first sequence is recommended for students planning to pursue a 4-year college degree:

MCC Course Title	OPS Course Title (Course Number)	OPS Credit Type	MCC Credit Equivalence
MATH 0910* – Pre-Algebra	MCC Modular Math 0910 (049141)	1 Elective	5.0 credits
MATH 0930* – Intermediate Algebra Part I	MCC Modular Math 0930 (049151)	1 Elective	4.0 credits
MATH 0931 – Intermediate Algebra Part II	MCC Modular Math 0931 (049031)	1 Elective	4.5 credits
MATH 1315 – College Algebra	MCC Modular Math 1315 (049041)	1 Math	4.5 credits

The second sequence is recommended for students planning to pursue a 2-year associate's degree:

MCC Course Title	OPS Course Title (Course Number)	OPS Credit Type	MCC Credit Equivalence
MATH 0910* – Pre-Algebra	MCC Modular Math 0910 (049141)	1 Elective	5.0 credits
MATH 1240 – Technical Mathematics OR	MCC Modular Math 1240 (049401) OR	1 Math	4.5 credits
MATH 1220 – Business Mathematics	MCC Modular Math 1220 (049201)		

*Students may place out of this course based on an ACT score or pre-test score.

How do students register?

Students register with their school counselor when they register for their other senior year courses.

Are there any fees?

There are no fees for students. The cost of the course and dual enrollment is funded by the Peter Kiewit Foundation. The cost equivalent that is covered by the funder is approximately \$1000.

What is dual enrollment?

Dual enrollment is a term used for courses that simultaneously earn a student credit at high school and at a partner institution such as Metropolitan Community College.

Are all MCC Modular Math students dual enrolled?

Yes. All students that are enrolled in OPS MCC Modular Math are automatically dual enrolled with Metropolitan Community College.

Are there any prerequisites or requirements for students to enroll in MCC Modular Math?

The following are recommended guidelines for students who wish to enroll in OPS MCC Modular Math:

- Have earned six math credits by the end of their junior year
- Have an ACT math score between 14-21 and/or current high school GPA of 2.0 or higher
- Have good attendance and be able to work independently
- Have a desire and/or interest in pursuing a 2-year or 4-year degree

Can Career Center students enroll in OPS MCC Modular Math?

Yes, OPS MCC Modular Math is available at the Career Center or at a student's home school.

How can students learn more about these MCC Modular Math courses and other courses offered through Metropolitan Community College?

Students can search "math" at <https://mycatalog.mccneb.edu/> to find full descriptions of the MCC Modular Math courses or choose a different search term if interested in other courses that MCC has to offer.

MILITARY SCIENCE

JROTC MISSION - “To motivate young people to become better 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 I 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. (LE

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 J ROTC 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)
THE MANAGING LEADER

070841/070842

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 J ROTC 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 1-2

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 3-4

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 5-6

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/ Course Requires Instructor Permission

Grade Level: 11, 12

Status: Elective

Duration: 2 semesters

BASIC COLOR GUARD 1-2**220440/220441**

This is an Intermediate Class in U.S. Army Regulation Drill. Students taking this course will receive instruction in the history and purpose of Regulation Drill, and its application in the organization and conduct of Color Guard Drill, Regulation Unarmed, and Armed Drill, and Drill with Sabers. Emphasis will be on learning the finer details of drill to prepare for ceremonies, exhibition and competition, and to prepare cadets to become drill team commanders. Students taking this course will be expected to participate as members of JROTC Color Guard and Drill Teams which will require before and after school practices and attendance at scheduled drill team competition events on weekends.

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

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

INTERMEDIATE COLOR GUARD 3-4**220441/220442**

This is an Advanced Class in U.S. Army Regulation Drill. Students taking this course will receive instruction in the history and purpose of Regulation Drill, and its application in the organization and conduct of Color Guard Drill, Regulation Unarmed, and Armed Drill, and Drill with Sabers. Emphasis will be on learning the finer details of drill to lead ceremonies, exhibition and competition, and to prepare other cadets to become drill team commanders. Students taking this course will participate as members of JROTC Color Guard and Drill Teams which will require before and after school practices and attendance at scheduled drill team competition events on weekends.

Prerequisite: *Must be enrolled in a JROTC LET course / Course Requires Instructor Permission*

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

COLOR GUARD 5-6**070631/070632**

This is an Advanced Class in U.S. Army Regulation Drill. Students taking this course will receive instruction in the history and purpose of Regulation Drill, and its application in the organization and conduct of Color Guard Drill, Regulation Unarmed, and Armed Drill, and Drill with Sabers. Emphasis will be on learning the finer details of drill to lead ceremonies, exhibition and competition, and to prepare other cadets to become drill team commanders. Students taking this course will participate as members of JROTC Color Guard and Drill Teams which will require before and after school practices and attendance at scheduled drill team competition events on weekends.

Prerequisite: *Must be enrolled in a JROTC LET course / Course Requires Instructor 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 in SY 21-22. Guidance forthcoming from Cadet Command in a Cadet Comm*I and Circular. All the schools have equipment*

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.

TREBLE CHORUS

190311/190312

This course is open to all girls who wish to participate in a choral class of treble voices. Basic vocal concepts are stressed through literature that is appropriate for soprano and alto voices. Performance opportunities are included as an extension of the classroom activities.

Prerequisite: None

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

MEN'S CHORUS

191061/191062

This course is open to 9-12th graders who wish to participate in male chorus. Basic vocal concepts are stressed through literature that is appropriate for tenor and bass voices. Performance opportunities are included as an extension of the classroom activities including concerts and contests in the Omaha area.

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. All members must audition each year.

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. Advisors guide the students in developing written plans for earning honors credit.

Prerequisite: Audition

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

HONORS SWING CHOIR "EXPLOSION!"

190331/190332

This course is the principle swing choir of each high school. These advanced choral ensembles, which usually consist of three to five mixed, equally balanced quartets, 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 routines and frequent performance, often requiring time outside of school, must be a student's consideration for enrollment. (Students are expected to take this course for the full year). **Students must be concurrently enrolled in Honors Concert Choir.**

Prerequisite: Audition

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

VOICE**190341/190342**

This course is offered to introduce students to private and small group instruction. Fundamental vocal technique, vocal performance, and solo literature are emphasized. Some type of performance is usually available through student recitals and various programs. **Students must be concurrently enrolled in a concert choir course.**

Prerequisite: Audition or teacher permission.

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

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

CONCERT BAND**190621/190622**

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

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. In the senior high school, prep band members may all be included in the marching band activities. **First semester meets PE graduation requirements.**

Prerequisite: Audition

Grade Level: 9 **Status:** Elective **Duration:** 2 semesters

HONORS SYMPHONIC BAND**190652**

This course is considered the principal performing band for high school instrumental music curriculum. Students will rehearse and perform standard band literature designed to strengthen basic musicianship and instrumental technique. 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. Additional assignments and performances will be required for Honors credit.

Prerequisite: Audition

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

INSTRUMENTAL ENSEMBLE**190811/190812**

This course is designed to introduce students to literature composed for a variety of small instrumental ensembles. Individual growth is encouraged through recital opportunities. The ensembles may include instrumental solos, duets, trios and quartets, clarinet choir, woodwind choir, string ensembles, brass ensembles and percussion ensembles. Performance may be required as an extension of classroom activities.

Prerequisite: Previous stringed instrumental music experience.

Grade Level: 9 **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

AP MUSIC THEORY

191521/191522

This AP Music Theory course is designed to develop aural, performance, composition and theoretical knowledge skills of students to levels beyond the high school level. Students are encouraged to progress to be able to take the AP exam during fourth quarter. **All students enrolled in an AP course are required to take either the CollegeBoard 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: Previous music experience.

Grade Level: 9, 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.

PHYSICAL EDUCATION 1-2

070181/070182

This course involves students in the development of personal fitness and participation in a variety of sports, games, and dance activities.

Prerequisite: None

Grade Level: 9

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 better.

Grade Level: 11, 12

Status: Meets requirement

Duration: 2 semesters

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: 10, 11, 12

Status: Meets requirement

Duration: 2 semesters

LIFETIME SPORTS 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: 10, 11, 12

Status: Meets requirement

Duration: 2 semesters

AEROBICS

070451/070452

This course provides class activities designed for improvement in cardio respiratory endurance, flexibility, and muscular development. Activities may include jogging, power walking, water exercise, step aerobics, line dancing, physical fitness, goal-setting and nutritional planning.

Prerequisite: None

Grade Level: 10, 11, 12

Status: Meets requirement

Duration: 2 semesters

TEAM SPORTS**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: 10, 11, 12 **Status:** Meets requirement **Duration:** 2 semesters

PE LEADERSHIP**070381/070382**

This co-ed course is ideal for the student athlete who wants to seriously train for high school sports. This 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. Seniors taking this class who are in a fall sport will only be allowed to take this course during 1st semester.

Prerequisite: None

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

UNIVERSITY SEMINAR**181119**

This course serves as a transition course for students preparing for post-secondary education and helps students better negotiate the rigors of college adjustment. Students complete career exploration and college preparation assignments. The course provides introductory campus experiences to ready students for the challenges of college life.

Prerequisite: None

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

HUMAN GROWTH**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 is an inquiry-based course designed to expose students to selected concepts in chemistry, physics, earth, and space science. Topics include matter, energy, forces and motion; Earth in space, and Earth structures and processes. 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

Physical Science is an inquiry-based course designed to expose student to selected concepts in chemistry, physics, earth, and space science. Topics include matter, energy, forces and motion, Earth in space, and Earth structures and processes. 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 student.

Prerequisite: Successful completion of Science 8 1-2 with B or better and concurrent enrollment in Algebra 1-2 or higher math course or MAP Math Score at or above score determined by District Math and MAP Science score at or above a score determined by District Science.

Grade Level: 9

Status: Meets requirement

Duration: 2 semesters

BIOLOGY 1-2

060411/060412

This course engages students in inquiry-based problem solving as they investigate biological issues that are relevant to their daily lives. Topics of study include the cell; the molecular basis of heredity; biological evolution; the interdependence of organisms; and the matter, energy, and organization in living systems. This course meets the district requirement for biology.

Prerequisite: None

Grade Level: 10

Status: Meets requirement

Duration: 2 semesters

HONORS BIOLOGY 1-2

060431/060432

This course engages students in inquiry-based problem solving as they investigate biological issues that are relevant to their daily lives. Topics of study include the cell; the molecular basis of heredity; biological evolution; the interdependence of organisms; and the matter, energy, and organization in living systems. This course meets the district requirement for biology. Students enrolled in honors courses will 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 better, or MAP Science score at or above score determined by District Science.

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 CollegeBoard 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 Honors Science course or AP Physics with B or better and teacher permission.

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

ANATOMY AND PHYSIOLOGY 1-2**060931/060932**

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 experiences using up-to-date technology. This course will explore scientific and technological advances in the field of anatomy. Students will also 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.

Prerequisite: Successful completion of Biology 1-2 and Physical Science 1-2.

Grade Level: 10, 11, 12 **Status:** Elective **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 Honors Biology 1-2 or Honors Physical Science 1-2 with a B or better or teacher permission.

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: Successful completion of Honors Biology 1-2 or Honors Physical Science 1-2 and Algebra 1-2 with a B or better or teacher permission.

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

AP CHEMISTRY

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 CollegeBoard 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 Honors Chemistry 1-2 with a C or better or Chemistry with an A or AP Physics with an A and Algebra 3-4 (may be taken concurrently) or teacher permission.

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

HONORS PHYSICS 1-2

060631/060632

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, interaction of energy and matter, wave and optics. This course meets the district requirement for physics. Students enrolled in honors courses will have additional experiences that require a more rigorous program of study. The goal is to teach the student how to mathematically manipulate the equations for mastery understanding and application to any physics problem. **Concurrent enrollment in H Algebra 3-4 or higher is required.**

Prerequisite: Successful completion of Geometry 1-2 with a B or better or teacher permission.

Grade Level: 9, 10, 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 Biology 1-2 (or concurrent enrollment) or Physical Science 1-2.

Grade Level: 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 1-2 (or concurrent enrollment) or Physical Science 1-2.

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

ENVIRONMENTAL SCIENCE 1-2**060351/060352**

Environmental Science 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.

Prerequisite: Successful completion of Physical Science 1-2

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

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:** 1 or 2 semesters

AP PHYSICS 1**060661/061662**

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 CollegeBoard 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 CollegeBoard 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 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 CollegeBoard 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

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.*

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 better 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 CollegeBoard 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 previous honors social studies course with B or better 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 the study of the various sectors of the free enterprise market system. Emphasis is given to the role of the citizen in America's market structure.

Prerequisite: None

Grade Level: 10

Status: Meets requirement

Duration: 1 semester

HONORS INTRODUCTION TO ECONOMICS

030481

This course examines the key concepts of economics through study of the various sectors of market systems. 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. Reading, writing, and activity-based assignments are designed for students who are willing to take on extra academic challenges.

Prerequisite: Successful completion of previous honors social studies course with B or better or teacher permission.

Grade Level: 10

Status: Meets requirement

Duration: 1 semester

HUMAN GEOGRAPHY

031011

What is HUMAN GEOGRAPHY? This course provides an effective method for studying human activities on the Earth's surface. Human interaction with one another and the environment will be studied and analyzed to provide an understanding of the world in which we 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. Honors students are expected to have above average writing skills, the ability to keep current with reading assignments, and the motivation to complete all classroom assignments. Concurrent enrollment in Honors English 3-4 is highly recommended.

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

Grade Level: 10

Status: Meets requirement

Duration: 1 semester

AP HUMAN GEOGRAPHY

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 CollegeBoard 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: Teacher recommendation

Grade Level: 10, 11, 12

Status: Meets requirement

Duration: 2 semesters

MODERN WORLD HISTORY

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 better 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

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 better 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 better 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 GOVERNMENT AND POLITICS: UNITED STATES

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 CollegeBoard 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 better or teacher permission.

Grade Level: 12

Status: Meets requirement

Duration: 1 semester

AP GOVERNMENT AND POLITICS: COMPARATIVE

030262

This course introduces students to the rich diversity of political life outside of the United States. This course uses a comparative approach to examine the political structures; policies; and the political, economic, and social challenges among six selected countries: Great Britain, Mexico, Russia, Iran, China, and Nigeria. Additionally, students examine how different governments solve similar problems by comparing the effectiveness of approaches to many global issues.

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

Grade Level: 10, 11, 12

Status: Elective

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: 10, 11, 12

Status: Elective

Duration: 1 semester

AP PSYCHOLOGY

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 CollegeBoard 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 better 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: 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: 10, 11, 12 **Status:** Elective **Duration:** 1 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: 10, 11, 12 **Status:** Elective **Duration:** 1 semester

WOMEN'S HISTORY**030951**

A study of the issues faced by women in American History.

Prerequisite: None

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

H INTRO TO WORLD RELIGIONS**030161**

Honors Introduction to World Religions is a neutral, academic study of the history, culture and theology of the world's major religions. It is designed to introduce the student to the religions' commonalities, history, and basic theology. The course examines the role of religion in society, the commonalities among the various spiritual paths, and a focus on each of the following faiths: Judaism, Christianity, Islam, Hinduism and Buddhism. If time allows, Native American religious beliefs and some of the lesser known faiths such as Baha'i and the Eastern Philosophies are investigated. Dual Enrollment options may be available.

Prerequisite: None

Grade Level: 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:

- o General education classes with support in a resource period. 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.
- o 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 more severe 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.

The following special education programs are available in our building:

Resource Program

This program serves students with a variety of disabilities. Special education staff provides interventions, accommodations and modifications that support the students, participation and progress in the general curriculum.

Behavioral Skills Program

This program focuses interventions on the social, emotional and behavioral needs of students while providing instruction to support the students' participation and progress in the general curriculum. Behavior intervention plans are individualized to meet the needs of each student. Students are integrated into general education classrooms whenever possible.

Alternate Curriculum Program

This program serves students with cognitive disabilities who require instruction focused on functional academic, social and vocational training. Students participate in this program because of the severity of their disabilities and the amount of support required to meet their individual needs. Students also participate in integrative classes and activities with their general education peers as appropriate. Students participate in alternate assessments. Students receive an adjusted diploma.

Work Experience Program

Work-based experiences foster adult employment success for all youth, particularly for those with disabilities. Exposing youth with disabilities to work-based experiences helps them in identifying their career interests in building self-confidence. In addition, it provides an opportunity for them to learn about workplace culture and expectations and to make what they are learning in school more meaningful through real-world applications. This program is designed for high school students who are enrolled in any of the Special Education Programs.

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: Be part of Behavioral Skills Program

Grade Level: 9, 10, 11, 12

Status: Elective

Duration: 1 or 2 semesters

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 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 C or better.

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 better.

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 better.

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*

AP SPANISH LANGUAGE**160581/160582**

The AP Spanish Language and Culture course emphasizes communication (understanding and being understood by others) by applying interpersonal, interpretive, and presentational skills in real-life situations. This includes vocabulary usage, language control, communication strategies, and cultural awareness. The AP Spanish Language and Culture course strives not to overemphasize grammatical accuracy at the expense of communication. To best facilitate the student of language and culture, the course is taught almost exclusively in Spanish. The AP Spanish Language and Culture course engages students in an exploration of culture in both contemporary and historical contexts. The course develops students' awareness and appreciation of cultural products (e.g., tools, books, music, laws, conventions, institutions); practices (patterns of social interactions within a culture); and perspectives (values, attitudes, and assumptions). 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 Honors language 7-8 course with a C or better.*

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

PURSUING 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) – 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 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)

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



Omaha North

HIGH SCHOOL

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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 (402-557-2001). The following persons have been designated to handle inquiries regarding the non-discrimination policies: Director for the Office of Equity and Diversity, 3215 Cuming St, Omaha, NE 68131 (531-299-0220).