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

Vision Statement
The vision statement of Omaha North High Magnet 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.

Goal
All students will graduate in four years.
REGISTRATION
Each spring counselors register current 8th – 11th grade students for the next year. Students registering after this time must make a registration appointment for themselves and a parent/legal guardian. Call the registrar at 402-557-3405.

The counselor will develop an appropriate learning program for each student taking into account student achievement levels and current placement requirements. This Course and Registration Guide includes descriptions of courses offered. Course choices become commitments; choose carefully. Course changes will be made only after consultation with parent/guardian, teacher, counselor and curriculum specialist.

A verification of the course selections is provided in the spring for each student following registration. Students, along with their parent/guardians, should review course selections. Changes in course offerings can be made at this time through the counselor. Course registration changes after that time will be made only:
1) if the course was completed during summer school,
2) if the student must repeat a course that was failed during the previous school year,
3) if a conflict in the schedule cannot be resolved without dropping or changing a course, or
4) if the student needs an additional course to meet credit 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 maybe 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 Magnet School. To be on track toward graduation:

<table>
<thead>
<tr>
<th>Grade 10 Placement (Sophomore)</th>
<th>Grade 11 Placement (Junior)</th>
<th>Grade 12 Placement (Senior)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Earned at least 13 credits in grade 9.</td>
<td>Earned at least 25 credits in grades 9 and 10.</td>
<td>Earned at least 42 credits in grades 9, 10, and 11.</td>
</tr>
</tbody>
</table>

TYPICAL CYCLE OF CLASSES
This is just an example. Individual students’ schedules will vary, and this does not include elective courses, special education courses, or honors classes. Math classes are dependent upon the level of achieved in middle school.

<table>
<thead>
<tr>
<th>9th Grade</th>
<th>10th Grade</th>
<th>11th Grade</th>
<th>12th Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>English 1-2</td>
<td>English 3-4</td>
<td>English 5-6</td>
</tr>
<tr>
<td>Social Studies</td>
<td>U.S. History 1-2</td>
<td>Geography Intro to Economics</td>
<td>Modern World History</td>
</tr>
<tr>
<td>Science</td>
<td>Physical Science 1-2</td>
<td>Biology 1-2</td>
<td>Required Science Elective</td>
</tr>
<tr>
<td>Math</td>
<td>Algebra 1-2</td>
<td>Geometry 1-2</td>
<td>Algebra 3-4</td>
</tr>
<tr>
<td>P.E.</td>
<td>Physical Education 1-2</td>
<td>Any Physical Education</td>
<td></td>
</tr>
<tr>
<td>Viking Time</td>
<td>Viking Time</td>
<td>Viking Time</td>
<td>Viking Time</td>
</tr>
<tr>
<td>Personal Finance</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
# Omaha Public Schools Graduation & College Entrance Requirements

<table>
<thead>
<tr>
<th>SUBJECT</th>
<th>CREDITS</th>
<th>SUBJECT</th>
<th>CREDITS</th>
<th>YEARS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>English</strong></td>
<td>8</td>
<td><strong>Social Studies</strong></td>
<td>7</td>
<td>3 years Fulfilled by OPS requirements</td>
</tr>
<tr>
<td>Grade 9 – English 1 &amp; 2</td>
<td></td>
<td>Grade 9 – U.S. History 1 &amp; 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Grade 10 – English 3 &amp; 4</td>
<td></td>
<td>Grade 10 – Human Geography &amp; Intro to Economics</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Grade 11 – English 5 &amp; 6</td>
<td></td>
<td>Grade 11 – World History 1 &amp; 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Grade 12 – English 7 &amp; 8</td>
<td></td>
<td>Grade 12 – American Government</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Mathematics</strong></td>
<td>6</td>
<td><strong>Science</strong></td>
<td><strong>6</strong></td>
<td>3 years Fulfilled by OPS requirements</td>
</tr>
<tr>
<td>Grade 9 – Math as Recommended</td>
<td></td>
<td>Grade 9 – Physical Science 1 &amp; 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Grade 10 – Math as Recommended</td>
<td></td>
<td>Grade 10 – Biology 1 &amp; 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Grade 11 – Math as Recommended</td>
<td></td>
<td>Grade 11 – Science Elective</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Physical Education</strong></td>
<td>4</td>
<td><strong>Human Growth &amp; Development</strong></td>
<td>1</td>
<td>N/A</td>
</tr>
<tr>
<td><strong>Electives</strong></td>
<td>16</td>
<td><strong>Personal Finance</strong></td>
<td>1</td>
<td>Grade 12 – Personal Finance</td>
</tr>
<tr>
<td><strong>World Language</strong></td>
<td>N/A</td>
<td><strong>Total</strong></td>
<td><strong>49 CREDITS REQUIRED</strong></td>
<td></td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>49</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**RECOMMENDED ON TRACK INDICATORS**

<table>
<thead>
<tr>
<th>Grade Level</th>
<th>9 - Freshman</th>
<th>10 - Sophomore</th>
<th>11 - Junior</th>
<th>12 - Senior</th>
</tr>
</thead>
<tbody>
<tr>
<td>Credits Earned</td>
<td>13 credits</td>
<td>25 total credits</td>
<td>37 total credits</td>
<td>49 total credits</td>
</tr>
</tbody>
</table>

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 Community System – Chadron, Peru, Wayne – Proof of graduation from an accredited high school.

University of Nebraska – 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.**

---

**OPS GRADUATION REQUIREMENTS**

**COLLEGE ENTRANCE REQUIREMENTS**

---

**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.**

---

**OMAHA Public Schools**
COURSE DROPS
Dropping a course after the third week of a semester will result in a grade of “F” which is included in grade point average computations. Requests to drop a course should be initiated by the student or parent/guardian to the counselor.

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 the failed course(s) and focusing on the course content standards to demonstrate proficiency on district assessments. The focus is on proficiency related to course content standards, not seat time. See counselor for options available.

GRADE POINT AVERAGE AND CLASS RANK
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:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Honors &amp; A.P. Courses</th>
<th>All Other Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>5</td>
<td>4</td>
</tr>
<tr>
<td>B</td>
<td>4</td>
<td>3</td>
</tr>
<tr>
<td>C</td>
<td>3</td>
<td>2</td>
</tr>
<tr>
<td>D</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>F</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

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.

AP and Dual Enrollment Program
What is AP? Advanced Placement is a program run by College Board that allows you to take courses in high school that can earn you college credit and/or qualify you for more advanced classes when you begin college.

So what are AP courses? They are designed to give you the experience of an intro-level college class while you're still in high school. Plus, you can get college credit for the class if you can pass the AP exam. Taking an AP course and passing the test is a sign that you are capable of handling college-level work, which will strengthen your college applications immensely.

What is Dual Enrollment? Dual Enrollment (DE) allows students to earn college credit while still at Omaha North High Magnet School. Besides costing less than 1/4 of actual tuition and fees for the same course at the college level, DE provides the opportunity to earn college credit with a grade, while still in high school. Currently we offer Dual Enrollment with UNO, Midland University and Metro Community College (MCC).

AP & Dual Enrolled Courses

<table>
<thead>
<tr>
<th>Course Title</th>
<th>Duel Enrollment through the following institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>AP Art History</td>
<td></td>
</tr>
<tr>
<td>AP Biology</td>
<td></td>
</tr>
<tr>
<td>AP Calculus AB</td>
<td>UNO</td>
</tr>
<tr>
<td>AP Calculus BC</td>
<td>UNO</td>
</tr>
<tr>
<td>AP Chemistry</td>
<td>Midland</td>
</tr>
<tr>
<td>AP Comparative Government &amp; Politics</td>
<td>UNO</td>
</tr>
<tr>
<td>AP Computer Science</td>
<td>UNO</td>
</tr>
<tr>
<td>Course</td>
<td>Institution</td>
</tr>
<tr>
<td>-------------------------------------------------------------</td>
<td>-------------</td>
</tr>
<tr>
<td>AP English Language &amp; Composition</td>
<td>Midland</td>
</tr>
<tr>
<td>AP English Literature &amp; Composition</td>
<td>UNO</td>
</tr>
<tr>
<td>AP Environmental Science</td>
<td></td>
</tr>
<tr>
<td>AP French Language &amp; Culture</td>
<td></td>
</tr>
<tr>
<td>AP Human Geography</td>
<td></td>
</tr>
<tr>
<td>AP Music Theory</td>
<td></td>
</tr>
<tr>
<td>AP Physics 1</td>
<td>UNO</td>
</tr>
<tr>
<td>AP Physics 2</td>
<td>UNO</td>
</tr>
<tr>
<td>AP Psychology</td>
<td></td>
</tr>
<tr>
<td>AP Statistics</td>
<td>UNO</td>
</tr>
<tr>
<td>AP Studio Art: 3D Design</td>
<td></td>
</tr>
<tr>
<td>AP United States Government &amp; Politics</td>
<td>UNO</td>
</tr>
<tr>
<td>AP United States History</td>
<td></td>
</tr>
<tr>
<td>AP World History</td>
<td>UNO</td>
</tr>
<tr>
<td>Information Security</td>
<td>UNO</td>
</tr>
<tr>
<td>Calculus III</td>
<td>UNO</td>
</tr>
<tr>
<td>AP Study Hall – designed to help first time AP students</td>
<td></td>
</tr>
<tr>
<td>Machine Tool I (9 hrs.)</td>
<td>MCC</td>
</tr>
<tr>
<td>Machine Tool II (9 hrs.)</td>
<td>MCC</td>
</tr>
<tr>
<td>Machine Tool III (9 hrs.)</td>
<td>MCC</td>
</tr>
<tr>
<td>Machine Tool IV (9 hrs.)</td>
<td>MCC</td>
</tr>
<tr>
<td>CNC I (9 hrs.)</td>
<td>MCC</td>
</tr>
<tr>
<td>CNC II (4 hrs.)</td>
<td>MCC</td>
</tr>
<tr>
<td>Print Reading (4 hrs.)</td>
<td>MCC</td>
</tr>
<tr>
<td>Industrial Safety &amp; Health (4.5 hrs., &amp; 30 Hour OSHA Certification)</td>
<td>MCC</td>
</tr>
<tr>
<td>AutoCAD Fundamentals (9 hrs.)</td>
<td>MCC</td>
</tr>
<tr>
<td>Applied Mathematics (4.5 hrs.)</td>
<td>MCC</td>
</tr>
<tr>
<td>H Child Development 1-2 (4.5 hrs.)</td>
<td>MCC</td>
</tr>
<tr>
<td>H Child Development 3-4 (4.5 hrs.)</td>
<td>MCC</td>
</tr>
</tbody>
</table>

Please be aware that registering for AP classes is a commitment to remain in the class the entire year. Any student who requests to drop will have to follow a specific plan before the request will be considered. Advanced Placement (AP) classes are courses approved by the College Board. They are college level courses.
taught using college methodology, textbooks, expectations, assignments and tests. It is expected students will take the AP exam at the conclusion of the course.

**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:** Assistant Superintendent of Curriculum, Instruction and Assessment

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 Assistant Superintendent of Curriculum, Instruction and assessment 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 Assistant Superintendent of Curriculum, Instruction and Assessment.

These steps shall be taken in a timely manner so as to accommodate the registration of courses for the school year in question.

**NCAA ELIGIBILITY REQUIREMENTS FOR ATHLETES**

To be qualified to practice and play freshman year at a NCAA Division I College on or after August 1, 2016, the requirements listed below must be satisfied. Not meeting these guidelines may jeopardize chances of being offered an athletic scholarship.

1. Graduate from high school
2. Successfully complete the 16 core courses listed below:
   - 4 years of English
   - 3 years of math (Algebra 1 or higher)
   - 2 years of natural or physical science (including 1 year of lab science, if offered)
   - 1 extra year of English, math or science
   - 2 years of social science
   - 4 years of additional core courses (including any from above or World Languages, non-doctrinal religion or philosophy)
3. Present a minimum required grade-point average and ACT/SAT score
   (See guidance counselor for GPA and ACT/SAT score index)
4. Earn a minimum GPA of 2.3
5. See the following website for more details: ncaa.org/static/2point3

To be qualified to practice and play freshman year at a NCAA Division II College, the requirements listed below must be satisfied. Not meeting these guidelines may jeopardize chances of being offered an athletic scholarship.

1. Graduate from high school
2. Complete these 16 core courses
   - 3 years of English
   - 2 years of math (Algebra 1 or higher)
   - 2 years of natural or physical science (including 1 year of lab science, if offered)
   - 3 additional years of English, math or natural or physical science
   - 2 years of social science
   - 4 years of additional core courses (including any from above or World Languages, non-doctrinal religion or philosophy)
3. Present a minimum required grade-point average and ACT/SAT score
   (See guidance counselor for GPA and ACT/SAT score index)
4. Earn a minimum GPA of 2.2
5. For further information view the following website eligibilitycenter.org
NAIA ELIGIBILITY REQUIREMENTS
If you will graduate from high school this spring and enroll in college this coming fall, the requirements are simple:
1. Graduate from high school
2. Plus two out of three of these requirements:
   a. Achieve a minimum of 16 on the ACT or 860 on the SAT (Critical reading and math only)
   b. Achieve a minimum overall high school GPA of 2.0 on a 4.0 scale
   c. Graduate in the top half of your high school class.

UNIVERSITY OF NEBRASKA SYSTEM REQUIREMENTS FOR ASSURED ADMISSION

<table>
<thead>
<tr>
<th>ENGLISH</th>
<th>4 years</th>
<th>All units must include intensive reading and writing experiences. Innovative interdisciplinary courses and courses in speech and journalism may be substituted if they include substantial amounts of reading and writing.</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATHEMATICS</td>
<td>3 years</td>
<td>Algebra 1-2, Algebra 3-4 and Geometry 1-2. (See additional UNL requirements)</td>
</tr>
<tr>
<td>SOCIAL STUDIES</td>
<td>3 years</td>
<td>1 unit drawn from American and/or world history; 1 additional unit drawn from history, American government and/or geography; and a third unit drawn from any social science discipline.</td>
</tr>
<tr>
<td>NATURAL SCIENCES</td>
<td>3 years</td>
<td>At least 2 units selected from biology, chemistry, physics and earth sciences. One of the above units must include laboratory instruction.</td>
</tr>
<tr>
<td>WORLD LANGUAGES</td>
<td>2 years</td>
<td>Both units must be in the same language.*</td>
</tr>
</tbody>
</table>

ADDITIONAL ACADEMIC REQUIREMENTS

<table>
<thead>
<tr>
<th>UNK</th>
<th>1 year</th>
<th>Chosen from any academic discipline.</th>
</tr>
</thead>
<tbody>
<tr>
<td>UNL</td>
<td>1 year</td>
<td>Mathematics: additional unit that builds on a knowledge of algebra.**</td>
</tr>
<tr>
<td>UNO</td>
<td>1 year</td>
<td>Chosen from any academic discipline.</td>
</tr>
<tr>
<td>TOTAL</td>
<td>16 units</td>
<td></td>
</tr>
</tbody>
</table>

* Students who are unable to take two years of World Languages in high school may still qualify for admission. Such students will be required to take two semesters of World Languages at the University of Nebraska. These students are still required to complete 16 units of academic courses for admission.

** It is not required that all students take a trigonometry or pre-calculus course for their fourth unit of mathematics. Other mathematics courses that build on two years of algebra (courses in statistics or discrete mathematics, for example) may be taken to satisfy this requirement.

Performance Requirements:
In addition to meeting the core course requirements, students seeking admission to any campus of the University of Nebraska must:
- Be ranked in the top half of their graduating class; or have achieved an ACT composite score of 20 or greater; or have achieved an SAT total score of 850 or greater

Admission of Students on the Basis of Special Merit:
Applicants who do not qualify for assured admission will automatically be considered for full admission on the basis of special merit. Each campus will assure that the process will make provisions for a variety of circumstances, including allowance for special consideration to be given to: students who have performed at a high level of accomplishment towards the conclusion of their high school careers; students who can provide evidence of special talents such as outstanding musical performers; and students who are members of under-represented groups who present evidence of being able to succeed.

Assured Admission of Students:
High school graduates who meet the above criteria (successful completion of the 16 units of courses) and satisfy the performance requirement will be assured of admission as an undergraduate to UNL, UNO or UNK.
HONOR ROLL
To be eligible for the honor roll, each student must:
(a) maintain a 3.0 minimum grade GPA,
(b) be enrolled in 4 or more courses, and
(c) not receive a "F" in any current semester course.
The levels of Honor Rolls are:
Viking High Honor (4.0 or higher)
Viking Medallion Honor (3.50 to 3.99)
Viking Achievement Honor (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:
• As part of the application process, a parent/guardian must conference with their student’s assigned counselor. This conference must take place prior to the application process.
• Students must submit the completed application during the annual spring registration process. 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 preparing 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:
1. 12TH GRADE STATUS ONLY.
2. No failing grade in a core class (English, social studies, math or science) the previous semester.
3. An overall 2.00 GPA.
4. Limited to a maximum of 1 block daily.
5. Counselor will give student a request card that must be signed by a parent or guardian.
6. Exceptions to the stated policy will be granted only by the student’s administrator.
7. 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.
CREDITS FROM OUTSIDE AGENCIES
Students regularly enrolled in an Omaha Public Senior High School, who desire to obtain credit by enrolling in an outside agency must have the written permission of the principal. In addition, the outside agency must be accredited by the State Department of Education, the course must be taught by a certified teacher, the course contact hours are to be comparable to O.P.S. summer school courses, and the materials used should be high school level. Credit cannot be given for a course in which the student has already received credit.

Students transferring into Omaha North High Magnet School will be held accountable for meeting Omaha North High Magnet School graduation requirements and must provide an official transcript from the previous school/agency.

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 Magnet School include the following:

<table>
<thead>
<tr>
<th>CLUBS/ACTIVITIES</th>
<th>CLUBS/ACTIVITIES</th>
<th>CLUBS/ACTIVITIES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Academic Decathlon</td>
<td>Gay-Straight Alliance</td>
<td>Pottery Club</td>
</tr>
<tr>
<td>AEGIS Students</td>
<td>German Club</td>
<td>PTSO/Post Prom</td>
</tr>
<tr>
<td>African-America History Challenge</td>
<td>History Club</td>
<td>RAD (Real Advocates for Diversity)</td>
</tr>
<tr>
<td>Art Club/NAEA</td>
<td>JROTC Color Guard</td>
<td>Robotics</td>
</tr>
<tr>
<td>Black Student Leadership</td>
<td>Junior Class/Prom</td>
<td>Science Olympiad</td>
</tr>
<tr>
<td>Cheerleading/Dance</td>
<td>Just Friends</td>
<td>Science Quiz Bowl</td>
</tr>
<tr>
<td>DECA</td>
<td>Latino Leaders</td>
<td></td>
</tr>
<tr>
<td>Drama Club &amp; Int'l Thespian Society</td>
<td>Mathematics (Mu Alpha Theta)</td>
<td>Senior Class</td>
</tr>
<tr>
<td>Dream</td>
<td>National Honor Society</td>
<td>Skills USA</td>
</tr>
<tr>
<td>Engineering Club</td>
<td>National Society of Black Engineers</td>
<td>Spanish Club</td>
</tr>
<tr>
<td>Fellowship of Christian Athletes</td>
<td>Newspaper/Yearbook</td>
<td>Sparkles</td>
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<td>French Club</td>
<td>North Social Skills Hangouts</td>
<td>Speech &amp; Debate</td>
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<td>Future Business Leaders of America</td>
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The AGRICULTURE, FOOD & NATURAL RESOURCES Career Cluster prepares learners for careers in the planning, implementation, production, management, processing and/or marketing of agricultural commodities and services. This includes food, fiber, wood products, natural resources, horticulture, and other plant and animal products. It also includes related professional, technical and educational services. Employment opportunities will continue to increase for those who provide and market an expanding array of food, forest, and veterinary medical consumer products to a growing world population. Continued globalization of the food, agricultural and natural resources system will increase opportunities for graduates who understand the socio-economic factors that define international markets. Graduates who know how to satisfy the diverse consumer needs and preferences in different cultures, and who have the language skills to communicate effectively, will have the best opportunities to be employed by the growing number of multinational businesses.

Cluster Knowledge and Skills: Premier Leadership, Personal Growth, Career Success, Organizations and Associations, Organizational structures and processes, Safety, Health, and Environmental Management, Health and safety procedures, Tools, equipment, machinery and technology, Issues, Technology and globalization, Scientific Inquiry

Some Omaha North High Magnet School courses related to this Career Cluster: All OPS required courses, Accounting, AP Biology, AP Chemistry, AP Physics, Honors/AP Environmental Science, CAD/Design Engineering, Information Technology Applications, Engineering Technology, PLTW Biomedical Sciences, Omaha History, World Languages, Marketing, Probability and Statistics, Leadership and Management, Plant Science, H Zoology, Science Seminar, Culinary Skills (CC), Zoo Partnership (CC),

The ARCHITECTURE & CONSTRUCTION Career Cluster prepares learners for careers in designing, planning, managing, building and maintaining the building environment. People employed in this cluster work on new structures, restorations, additions, alterations and repairs. Architecture and construction comprise one of the largest industries in the United States. Based on the latest statistics, this career cluster has 13.8 million jobs. In the next few years, many new jobs will be added and many employment opportunities will result from the need to replace experienced workers who leave jobs.


Individuals who work in the ARTS, A/V TECHNOLOGY & COMMUNICATIONS industry manufacture, sell, rent, design, install, integrate, operate, and repair the equipment of audiovisual communications. They are involved in the presentation of sound, video, and data to groups in such venues as corporate boardrooms, hotels, convention centers, classrooms, theme parks, stadiums, and museums. The major activity sectors in the AV communications industry are distributive service firms (AV dealers, rental companies, consultants, designers, and related firms), manufacturers of AV presentations and communications products, and large end-users. Most observers expect the job growth rate within AV industries to be at 20-30% for the foreseeable future. In just the AV systems technician field, the industry could expect to add 20,600 jobs annually.


The BUSINESS, MANAGEMENT & ADMINISTRATION Cluster prepares learners for careers in planning, organizing, directing and evaluating business functions essential to efficient and productive business operations. Career opportunities are available in every sector of the economy and require specific skills in organization, time management, customer service and communication. Nearly half of all jobs are in managerial and professional occupations, and nearly one-fourth of all workers are self-employed. The business management and administration services industry is one of the highest-paying industries. In the next few years, many new jobs will be added and many openings will result from the need to replace experienced workers who leave jobs.


Some Omaha North High Magnet School courses related to this Career Cluster: All OPS required courses, Academy of Finance, Accounting, Business and Consumer Law, Management and Leadership, Information Technology Applications, Entrepreneurship, Financial Internship, Marketing Internship, Probability & Statistics, World Languages, Marketing, Psychology, Sociology, H Humanities
The Career EDUCATION & TRAINING Cluster prepares learners for careers in planning, managing and providing education and training services, and related learning support services. Millions of people each year prepare for careers in education and training in a variety of settings that offer academic instruction, vocational and technical instruction, and other education and training services. A growing emphasis on improving education and making it available to more Americans will increase the overall demand for workers in the Education and Training Cluster. Employers are expected to devote greater resources to job-specific training programs in response to the increasing complexity of many jobs, the aging of the work force, and technological advances that can leave employees with obsolete skills. This will result in particularly strong demand for training and development specialists across all industries.


Some Omaha North High Magnet School courses related to this Career Cluster: All OPS required courses, Drama, World Languages, Law and Juvenile Justice, Psychology, Child Development, Parenting, Sociology, Teen Parenting, Human Growth, Ethnic Studies, African American History, Omaha History, H Humanities, Precision Machine Technology, H Intro to World Religions, Debate, Family Living

The FINANCE Cluster prepares learners for careers in financial and investment planning, banking, insurance and business financial management. Career opportunities are available in every sector of the economy and require specific skills in organization, time management, customer service and communication. The finance industry is a critical sector of the United States economy with over six million people employed in finance-related occupations. Although some of the finance occupations project only moderate growth, advances in technology and trends toward direct marketing provide exciting and challenging opportunities for careers across all areas of the cluster. In the next few years, many new jobs will be added and many openings will result from the need to replace experienced workers who leave jobs.


Some Omaha North High Magnet School courses related to this Career Cluster: All OPS required courses, H Insurance, Accounting, Information Technology Applications, Marketing, Entrepreneurship, Financial Internship, Personal Finance
The GOVERNMENT & PUBLIC ADMINISTRATION Career Cluster affects Americans in countless ways. In fact, virtually every occupation can be found within government. There are, however, some activities that are unique to government. The federal government defends us from foreign aggression; represents American interests abroad; deliberates, passes and enforces laws; and administers many different programs. State and local governments pass laws or ordinances and provide vital services to constituents. There are many opportunities in government in every career area. The Government and Public Administration Career Cluster focuses on those careers that are unique to government and not contained in another Career Cluster. Because of its public nature, the factors that influence federal government staffing levels are unique. The Congress and President determine the government's payroll budget. Each Presidential Administration and Congress have different public policy priorities, which increase levels of federal employment in some programs and decrease federal employment in others. State and local government employment is projected to increase approximately 12 percent during the next decade. Employment growth will stem from a rising demand for services at the state and local levels. An increasing population, along with state and local assumption of responsibility for some services previously provided by the federal government, is fueling the growth of these services.


HEALTH SCIENCE is one of the largest industries in the country, with more than 11 million jobs, including the self-employed. The health services industry includes establishments ranging from small-town private practice physicians who employ only one medical assistant to busy inner city hospitals that provide thousands of diverse jobs. More than half of all non-hospital health service establishments employ fewer than five workers. On the other hand, almost two-thirds of hospital employees were in establishments with more than 1,000 workers. Wage and employment in the health services industry is projected to increase more than 25 percent through 2010, compared with an average of 16 percent for all industries. Employment growth is expected to account for about 2.8 million new jobs.


The HOSPITALITY & TOURISM Cluster prepares learners for careers in the management, marketing and operations of restaurants and other food services, lodging, attractions, recreation events and travel-related services. Hospitality operations are located in communities throughout the world. Travel and tourism is one of the largest and fastest-growing industries in the world. Each year, travel and tourism employers around the world pay more than $1.6 trillion in wages and salaries and create 12.5 million new jobs. Beginning salaries depend on the employee's skills, education and job level at a hotel, restaurant, tourism office, recreation facility, amusement park or attraction site. Salaries range from entry-level wages to six figures. This industry is known for promoting from within and for its large number of young managers.


Some Omaha North High Magnet School courses related to this Career Cluster: All OPS required courses, Art, Accounting, Information Technology Applications, Ethnic Studies, Intro to Economics, World Languages, Marketing, Psychology, Sociology, H Humanities, Intro to Digital Design, Web Design, Academy of Finance, African American History

The HUMAN SERVICES Career Cluster prepares individuals for employment in career pathways related to families and human needs. Based on the latest statistics, more than 7.2 million people are employed in human services occupations. Faster than average employment growth, coupled with high turnover, should create numerous employment opportunities.


Some Omaha North High Magnet School courses related to this Career Cluster: All OPS required courses, African American History, Ethnic Studies, World Languages, JROTC, Law and Juvenile Justice, Psychology, AP Psychology, Sociology, Humanities, Newspaper, Family Living, Sports Nutrition, Parenting, Omaha History, Child Development
INFORMATION TECHNOLOGY careers involve the design, development, support and management of hardware, software, multimedia and systems integration services. The IT industry is a dynamic and entrepreneurial working environment that has a revolutionary impact on the economy and society. In addition to careers in the IT industry, IT careers are available in every sector of the economy - from Financial Services to Medical Services, Business to Engineering and Environmental Services. Anyone preparing for an IT career should have a solid grounding in math and science. Even in times of economic downturn, there is still a large market for people with IT skills in organizations of all sizes. ITAA expects continued growth opportunities within the IT field.


The LAW, PUBLIC SAFETY & SECURITY Cluster helps prepare students for careers in planning, managing, and providing legal, public safety, protective services and homeland security, including professional and technical support services. Renewed national interest in public safety and security should help expand opportunities for employment in the Law, Public Safety and Security Cluster. Numerous job openings will stem from employment growth attributable to the desire for increased corporate, industrial and homeland security. Also, a more security-conscious society and concern about drug-related crimes should contribute to the increasing demand.


All careers in MANUFACTURING require the learner to have a strong mechanical ability, specialized skills, communication skills and computation skills. The learner will be required to apply problem solving, make decisions, and work in a team environment. Preparation for careers in Manufacturing must begin in the elementary grades and continue through high school allowing students to gain experience in applied, real time manufacturing situations. Students will also find it advantageous to participate in a post-high school program that will expand some skills in specific jobs that meet the requirements of the employer. As technology advances, each worker has the opportunity to produce more, so fewer workers are needed. However, there are excellent opportunities in manufacturing where technology and career pathways provide for satisfying careers.


Some Omaha North High Magnet School courses related to this Career Cluster: All OPS required courses, CAD/Design Engineering, Industrial Materials Processing, World Languages, Info Tech Applications, Management and Leadership, Industrial Materials and Processing, Precision Machine Technology Pathway, Small Engine Repair/Welding (CC)

The MARKETING, SALES & SERVICE Career Cluster prepares learners for careers in planning, managing and performing marketing activities to reach organizational objectives. According to the latest statistics, there are 16 million jobs in sales and related occupations. Advertising, marketing, promotions, public relations and sales managers hold more than 700,000 jobs. Over 300,000 high-paying management positions are likely to be available over the next decade. Employment opportunities for retail salespeople are expected to be good. Individuals with a college degree or computer skills will be sought for managerial positions in sales, logistics, management information systems, marketing and e-marketing.


A career in SCIENCE, TECHNOLOGY, ENGINEERING & MATHEMATICS is exciting, and ever-changing. Learners who pursue one of these career fields will be involved in planning, managing, and providing scientific research and professional and technical services including laboratory and testing services, and research and development services. Given the critical nature of much of the work in this cluster, job possibilities abound even in times of economic downturn. More scientists, technologists and engineers will be needed to meet environmental regulations and to develop methods of cleaning up existing hazards. A shift in emphasis toward preventing problems rather than controlling those that already exist, as well as increasing public health concerns, also will spur demand for these positions.


Some Omaha North High Magnet School courses related to this Career Cluster: All OPS required courses, Anatomy and Physiology, AP Biology, AP Calculus, AP Chemistry, AP Physics, CAD/Design Engineering, World Languages, Probability and Statistics, AP Environmental Sciences, H Principles of Biomedical Sciences, Honors Human Body Systems, Honors Biomedical Innovations, Honors Biomedical Interventions, H Zoology, Marine Biology, UNMC Health Alliance (CC), Zoo Academy (CC), H Emergency Medical Technician (CC), H Sports Medicine of Athletic Training (CC), any engineering, math, science or tech course offered at North

The TRANSPORTATION, DISTRIBUTION & LOGISTICS Career Cluster exposes students to careers and businesses involved in the planning, management, and movement of people, materials, and products by road, air, rail and water. It also includes related professional and technical support services such as infrastructure planning and management, logistic services, and the maintenance of mobile equipment and facilities. Transportation, distribution and logistics is a critical sector of the United States economy. Almost 10 million people are employed in transportation or transportation-related occupations. High-growth industry and career specialties offer high-tech, high-wage opportunities. This industry sector represents over 11 percent of the gross domestic product, and is among the fastest growing of all sectors. There will be a growing number of career opportunities in a variety of professional and technical occupations as well as high paid, entry-level occupations that can provide career advancement opportunities.


Some Omaha North High Magnet School courses related to this Career Cluster: All OPS required courses, Accounting, Precision Machine Technology Pathway, Automotive Technology (CC), Automotive Collision Repair (CC), Management and Leadership, Information Technology Applications, Marketing
SAMPLE COURSE SELECTION FORM

Actual course selection forms will be completed by students during Registration Orientation with Viking Time teachers. Students will bring copies home to be reviewed and signed by parent/guardian, then counselors will meet one-on-one with students to finalize course selections for the upcoming school year.
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.

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

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.

Grade Level: 10, 11, 12  Status: Elective
Prerequisite: Successful completion of Art 1-2 with a C or better or teacher permission

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.

Grade Level: 11, 12  Status: Elective
Prerequisite: Grade of A, B, or C in Art 3-4

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.

Grade Level: 12  Status: Elective
Prerequisite: Grade of A, B, or C in Art 5-6 or teacher recommendation based on portfolio review

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.

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

Grade Level:  10, 11, 12  Status:  Elective
Prerequisite:  Completion of Beginning Pottery 1-2 with a C or better or teacher permission

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.

Grade Level:  11, 12  Status:  Elective
Prerequisite:  Grade of A, B, or C in Pottery 3-4 or teacher recommendation

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.

Grade Level:  12  Status:  Elective
Prerequisite:  Grade of A, B, or C in H Pottery 5-6

AP STUDIO ART 3-D  110851/110852
This course prepares advanced art students for post-secondary art at the university or art school level. A portfolio is developed and submitted following the National College Board guidelines. 3-Design involves purposeful decision-making using the elements and principles of art in an integrative way to demonstrate a thorough understanding of depth and space, volume and surface. Students, in their portfolio, are asked to show mastery of 3-D design through any three-dimensional approach, including but not limited to, figurative or non-figurative sculpture, architectural model, metal work, ceramics, glass work, installation, assemblage and 3-D fabric/fiber arts. The student is required to devote an additional class period of independent study toward the development of the portfolio. Course participants will be prepared, but not required, to take the Advanced Placement exam to earn college credit.

Grade Level:  11, 12  Status:  Elective
Prerequisite:  Successful completion of at least 4 semesters of pottery or instructor permission.
Requisite:  A summer project will be required for this class

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.

Grade Level:  09, 10, 11, 12  Status:  Elective
AP ART HISTORY 110821/110822

In this course, students examine and critically analyze major forms of artistic expression from the past and the present from a variety of cultures. This course will emphasize understanding of how and why works of art function and effects of works of art. Students will extensively use the critical process of description, analysis, interpretation and evaluation of architecture, sculpture, painting, and other art forms within diverse historical and cultural contexts during discussions, research and writing. Course content will cover art history from Ancient to Medieval; Renaissance to Present and cultures beyond the European artistic traditions. Course participants will be prepared, but not required, to take the Advanced Placement exam to earn college credit.

Grade Level: 10, 11, 12  Status: Elective

ART APPRECIATION 110481/110482

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.

Grade Level: 09, 10, 11, 12  Status: Elective
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 planning are integrated throughout the curriculum.
Grade Level: 12 Status: Requirement

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.
Grade Level: 12 Status: Requirement

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

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.
Grade Level: 10, 11, 12 Status: Elective Duration: One 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.
Grade Level 10, 11, 12 Status: Elective

INFO TECH FUNDAMENTALS 130821/130822
Students are introduced to the proper use of information technologies (IT). In addition, they will be introduced to hardware and software selection and use, technology resource support, and ethical issues. Students will investigate information technology careers and certifications in networking, programming, and IT support services. Units would include, but not be limited to, exploring concepts in networking, programming, and support services, computer hardware components and peripherals, system and application software, and impact of technology on society.
Grade Level 09 Status: Elective
HONORS INFO TECH FUNDAMENTALS

Students are introduced to the proper use of information technologies (IT). In addition, they will be introduced to hardware and software selection and use, technology resource support, and ethical issues. Students will investigate information technology careers and certifications in networking, programming, and IT support services. Units would include, but not be limited, to exploring concepts in networking, programming, and support services, computer hardware components and peripherals, system and application software, and impact of technology on society. Honors level students will sit for technology industry certification exams as part of their honors-level coursework.

Grade Level: 09
Status: Elective

ENTREPRENEURSHIP 1

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.

Grade Level: 11, 12
Status: Elective
Duration: One Semester

MARKETING 1-2

HONORS MARKETING 1-2

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.

Grade Level: 09, 10, 11, 12
Status: Elective

Note: Students are encouraged to join the student organization DECA

HONORS MARKETING 3-4

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.

Grade Level: 10, 11, 12
Status: Elective
Prerequisite: Grade of A, B, or C in Marketing 1-2 and teacher recommendation
Requisite: Concurrent enrollment in Marketing Internship 1-2
Note: Students are encouraged to join the student organization DECA

MARKETING INTERNSHIP 1-2

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.

Grade Level: 11, 12
Status: Elective
Prerequisite: Concurrent enrollment in Marketing 1-2 or 3-4/Student approved by teacher-coordinator

MARKETING INTERNSHIP 3-4

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.

Grade Level: 12
Status: Elective
Prerequisite: Grade of A, B, or C in Marketing 1-2 and Marketing Internship1-2/Student approved by teacher-coordinator
Requisite: Concurrent enrollment in Marketing 1-2 or 3-4
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.

Grade Level: 10, 11, 12  
Status: Elective  
Prerequisite: Grade of A, B, or C in middle school Computer Applications III or A, B, C in Info Tech Fundamentals

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.

Grade Level: 11, 12  
Status: Elective

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.

Grade Level: 11, 12  
Status: Elective  
Prerequisite: Students approved by teacher-coordinator and successful completion/concurrent enrollment in corresponding courses.

ACADEMY OF FINANCE

HONORS INSURANCE 120321
This course is part of the National Academy Foundation’s Academy of Finance. This course introduces students to the insurance industry and to its critical role in the financial services sector and to society. It covers common types of insurance, including life, health and disability, property, liability, and forms of commercial insurance, and career opportunities. (AOF only)

Grade Level: 11, 12  
Status: Elective  
Duration: One Semester  
Prerequisite: Grade of A or B in Intro to Economics or Accounting 1-2

HONORS INTRODUCTION TO FINANCIAL SERVICES 120421
This course is part of the National Academy Foundation’s Academy of Finance. Financial services provides students with an overview of financial services companies. This course introduces students to banking, monetary policy, investing, and financial careers. Students examine current issues including ethics in the financial services industry.

Grade Level: 11, 12  
Status: Elective  
Duration: One Semester  
Prerequisite: Grade of A or B in Honors Insurance

HONORS FINANCIAL PLANNING 120221
This two semester course is designed to provide introductory knowledge of accounting principles, concepts, and practices. Included topics are the balance sheet, the income statement, the statement of owner’s equity the statement of cash flows, worksheets, journals, ledgers, accruals, adjusting and closing entries, internal controls, inventories, fixed and intangible assets, liabilities, equity and financial statement analysis. This course provides a foundation for more advanced work in the fields of accounting and business.

Grade Level: 12  
Status: Elective  
Duration: One Semester  
Prerequisite: Grade of A or B in H Introduction to Financial Services
HONORS APPLIED FINANCE

Applied Finance delves into the financial concept introduced in Principles of Finance. Students learn to identify the legal forms of business organization and continue to develop an understanding of profit. They learn about various financial analysis strategies and the methods by which businesses raise capital. Students also have the chance to explore, in depth, topics of high interest in the field of finance, and explore the types of careers that exist in finance today.

Grade Level: 12  Status: Elective  Duration: One Semester
Prerequisite: Grade of A or B in Honors Financial Planning

FINANCIAL INTERNSHIP 1-2

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. Students are required to attend Employee Appreciation Banquet.

Grade Level: 11, 12  Status: Elective
Prerequisite: Students approved by teacher-coordinator and successful completion/concurrent enrollment in corresponding courses.
Career Center

Connecting Today’s Students with Tomorrow’s Careers

For more information visit https://www.cps.org/cencentertwitter

Auto Mobile Technology
• 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
• 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
• 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
• 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
• 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.

Zoo Academy
• Spend half your day at the world class Henry Doorly Zoo &
  Aquarium.
• Experience a rich STEM learning environment where
  students can make discoveries about the natural world
  and apply the knowledge gained to real-world situations.
• Build a robust resume, which includes experiences
  conducting research to participating in animal medical
  procedures.

Digital Video Production
• Operate specialized equipment to create professional
  video and film productions.
• Showcase skills in multiple video, film, and broadcast
  news competitions.
• Create live television productions in a high definition
  studio.

Photography
• Capture and enhance individual creativity in artistic and
  commercial images.
• Generate a dynamic portfolio utilizing the effects of light,
  exposure and lenses.
• Develop inspiring images in Photoshop on location and
  in studio.

Emergency Medical Technician
• 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.

Certified Nursing Assistant
• 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
  professional healthcare setting.

UNMC High School Alliance
• Experience unique and innovative science classes that
  are not available in the traditional high school setting.
• Participate in enriching classes taught in partnership by
  UNMC faculty and certified high school teacher on the
  UNMC campus.
• Hands-on health professions immersion program for
  highly motivated secondary students from varying
  backgrounds.

UNMC High School
Alliance and Zoo Academy
Have Separate Application
Periods.

CAREER FOCUS:
Prepare for immediate employment, advanced certifications, and further education.
INFO TECH FUNDAMENTALS 130821/130822

Students are introduced to the proper use of information technologies (IT). In addition, they will be introduced to hardware and software selection and use, technology resource support, and ethical issues. Students will investigate information technology careers and certifications in networking, programming, and IT support services. Units would include, but not be limited to, exploring concepts in networking, programming, and support services, computer hardware components and peripherals, system and application software, and impact of technology on society.

Grade Level: 9
Status: Elective

H INFO TECH FUNDAMENTALS 130831/130832

Students are introduced to the proper use of information technologies (IT). In addition, they will be introduced to hardware and software selection and use, technology resource support, and ethical issues. Students will investigate information technology careers and certifications in networking, programming, and IT support services. Units would include, but not be limited to, exploring concepts in networking, programming, and support services, computer hardware components and peripherals, system and application software, and impact of technology on society. Honors level students will sit for technology industry certification exams as part of their honors-level coursework.

Grade Level: 9
Status: Elective

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.

Grade Level: 10, 11, 12
Status: Elective

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.

Grade Level: 10, 11, 12
Status: Elective
Prerequisite: Grade of A or B in Algebra 1-2

COMPUTER SCIENCE PATHWAY

HONORS COMPUTER SCIENCE AND SOFTWARE ENGINEERING 171081/171082

Open doors in any career with computer science! In CSE, students create apps for mobile devices, automate tasks in a variety of languages, and find patterns in data. Students collaborate to create and present solutions that can improve people's lives, and weigh the ethical and societal issues of how computing and connectivity are changing the world.

Grade Level: 09, 10, 11, 12
Status: Elective
Requisite: Concurrent enrollment in college preparatory mathematics class
AP COMPUTER SCIENCE A 1-2 130791/130792
This college-level course will prepare the student to take the AP Computer Science exam. Students will learn how to design and implement computer-based solutions to problems in several application areas, and well-known algorithms and data structures, including how to develop and select appropriate algorithms and data structures to solve problems. Students must be able to code fluently in a well-structured fashion using programming language Java, and be able to read and understand a large program and a description of the design and development process leading to such a program. Students will be expected to identify the major hardware and software components of a computer system, their relationship to one another, and the roles of these components within the system. Students will be able to recognize the ethical and social implications of computer use.

Grade Level: 10, 11, 12
Status: Elective
Prerequisite: Grade of A or B in Honors Computer Science and Software Engineering

HONORS 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. Students will solve problems by understanding and closing these vulnerabilities. The course raises students’ knowledge of and commitment to ethical computing behavior.

Grade Level: 11, 12
Status: Elective
Prerequisite: Grade of A or B in AP Computer Science 1-2

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 ready to take on any post-secondary program or career.

Grade Level: 12
Status: Elective
Prerequisite: 3 years of PLTW coursework
Requisite: Concurrent enrollment in college preparatory mathematics class

CISCO NETWORKING

HONORS COMPUTER NETWORKING 1-2 (CISCO 1-2) 130621/130622
This course is a study of the fundamentals of current networking technology. Students will learn to design, plan, implement, and support computer networks. The course introduces a full range of computer networking from local area networks to wide area networks.

Grade Level: 9, 10, 11, 12
Status: Elective
Prerequisite: Grade of A or B in Algebra 1-2. Digital Electronics is highly recommended for this course.

HONORS COMPUTER NETWORKING 3-4 (CISCO 3-4) 130631/130632
This course is a study of the fundamentals of current networking technology. Students will learn to design, plan, implement, and support computer networks. The course introduces a full range of computer networking from local area networks to wide area networks.

Grade Level: 10, 11, 12
Status: Elective
Prerequisite: Honors Computer Networking 1-2
MEDIA TECHNOLOGY PATHWAY

FOUNDATION COURSES

HONORS DIGITAL MEDIA 131171
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.

Grade Level: 9, 10
Status: Elective
Prerequisite: Grade of A or B in Algebra 1-2

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.

Grade Level: 10, 11, 12
Status: Elective
Prerequisite: Grade of A or B in Honors Digital Media

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.

Grade Level: 11, 12
Status: Elective
Prerequisite: Grade of A or B in Honors Audio and Video Technology 1-2

CAPSTONE COURSE

HONORS AUDIO VIDEO TECHNOLOGY CAPSTONE
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 Visual Production is to work both independently and collaboratively to create a professional product while meeting deadlines.

Grade Level: 12
Status: Elective
Prerequisite: Grade of A or B in three years of Media Technology Program
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.

Grade Level: 9
Prerequisite: Middle School recommendations

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.

Grade Level: 9
Status: Elective

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.

Grade Level: 9
Prerequisite: Any one of the following*: Grade of an “A” in English Language Arts 8 1-2, Grade of “B” or higher in Honors English Language Arts-8 1-2, MAP Reading score at or above a score determined by District English Language Arts Supervisor.

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.

Grade Level: 10
Status: Meets requirement

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.

Grade Level: 10
Prerequisite: Grade of A or B in previous Honors English classes or teacher recommendation
Requisite: A summer project is required for this class.

Students develop cognitively, socially and emotionally along different time and interest continuums. For students who are willing and interested in advanced coursework, but do not meet the course prerequisites, an exception may be requested through a conversation involving staff, parents/guardians, and the student.
ENGLISH 5-6
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.
Grade Level: 11
Status: Meets requirement

AP ENGLISH LANGUAGE AND COMPOSITION
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.
Grade Level: 11
Status: Meets requirement
Prerequisite: Grade of A or B in previous Honors English class or teacher recommendation
Requisite: A summer project is required for this class.

ENGLISH 7-8
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.
Grade Level: 12
Status: Meets requirement

AP ENGLISH LITERATURE AND COMPOSITION
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.
Grade Level: 12
Status: Meets requirement
Prerequisite: Grade of A or B in previous Honors or AP English classes and teacher recommendation
Requisite: A summer project is required for this class.

HONORS TECHNICAL COMMUNICATION
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.
Grade Level: 12
Status: Meets Requirement

HONORS ADVANCED CREATIVE WRITING
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.
Grade Level: 10, 11, 12
Status: Elective
Prerequisite: Grade of A or B in previous Honors English classes or teacher recommendation
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.
Grade Level: 11, 12
Status: Elective
Prerequisite: Grade of A, B, or C in a previous English class

JOURNALISM 1-2 020411/020412
This course introduces students to the field of journalism including the newspaper, photography, and yearbook. Students will learn the history, law, and ethics of journalism as well as journalistic writing, reporting and interviewing, and layout and design. Students are expected to work both individually and collaboratively.
Grade Level: 10, 11
Status: Elective
Prerequisite: Grade of A or B in English or teacher recommendation

HONORS JOURNALISM 1-2 020531/020532
This course introduces students to the field of journalism including the newspaper, photography, and yearbook. Students will learn the history, law, and ethics of journalism as well as journalistic writing, reporting and interviewing, and layout and design. Students are expected to work both individually and collaboratively.
Grade Level: 9
Status: Elective
Prerequisite: Grade of A or B in 8th grade English

DIGITAL JOURNALISM 020451/020452
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 positive and objective digital citizenship is in addition to acquiring skills that help to prepare them for advanced journalism courses.
Grade Level: 10, 11, 12
Status: Elective
Prerequisite: Journalism 1-2

YEARBOOK 1-2 020441/020442
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.
Grade Level: 10, 11, 12
Status: Elective
Prerequisite: Grade of A or B in Journalism 1-2 and adviser recommendation

HONORS ADVANCED NEWSPAPER 020551/020552
Honors Advanced Newspaper students are responsible for the production of the print and/or online school newspaper. Students work individually and collaboratively on their assignments. Quality writing, editing, advertising, photography, and layout design skills are emphasized.
Grade Level: 10, 11, 12
Status: Elective
Prerequisite: Grade of A or B in Journalism 1-2 and advisor recommendation

DRAMA 1-2 020631/020632
This course provides an introduction to drama and theater as an art form. Students enrolled in this course will learn and apply basic principles of acting and fundamentals of stage terminology and audience etiquette. Participants will study, experience, and perform pantomime, improvisation, monologues, original scenes, and create, write, and perform original scripts/plays. Students will also study the technical aspects of theater and an introduction to theater history. Students are required to attend and critique some school plays and/or musical productions.
Grade Level: 9, 10, 11, 12
Status: Elective
ADVANCED DRAMA 020651/020652
This course is a continued in-depth study and application of acting principles, terminology, and theater history. Students will also learn and apply the fundamentals of directing, stage, lighting, and costume design. Students are required to attend and critique two live stage productions per semester and participate in student-directed one act plays. This course may be taken more than one time for credit.

Grade Level: 10, 11, 12
Status: Elective
Prerequisite: Grade of C or better in Drama 1-2 or advisor approval

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.

Grade Level: 10, 11, 12
Status: Elective
Prerequisite: Drama 1-2, grade of a C or better

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.

Grade Level: 11, 12
Status: Elective
Prerequisite: Grade of B or above in Stagecraft 1-2 or teacher permission

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.

Grade Level: 10, 11, 12
Status: Elective
Prerequisite: Grade of C or better in English

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.

Grade Level: 11, 12
Status: Elective
Prerequisite: Grade of C or better in Debate 1-2
English as a Second Language (ESL)

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

**Year 1** (Reading Level Grades: K-2 Fountas and Pinnell Levels A-J):

<table>
<thead>
<tr>
<th>Block/Period</th>
<th>Day A or Periods 1-4</th>
<th>Course #</th>
<th>Day B or Periods 5-8</th>
<th>Course #</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>ESL 1*</td>
<td>155191</td>
<td>ESL 1</td>
<td>155191</td>
</tr>
<tr>
<td></td>
<td>ESL 2</td>
<td>155192</td>
<td>ESL 2</td>
<td>155192</td>
</tr>
<tr>
<td>2</td>
<td>ESL Reading 1*</td>
<td>155341</td>
<td>ESL Reading 1</td>
<td>155341</td>
</tr>
<tr>
<td></td>
<td>ESL Reading 2</td>
<td>155342</td>
<td>ESL Reading 2</td>
<td>155342</td>
</tr>
<tr>
<td>3</td>
<td>Math (level depends on ability)</td>
<td>155301</td>
<td>P.E.</td>
<td>155302</td>
</tr>
<tr>
<td></td>
<td>Option: ESL Math Prep 1-2 (not a math credit)</td>
<td>155301</td>
<td>P.E.</td>
<td>155302</td>
</tr>
<tr>
<td>4</td>
<td>ESL Social Studies Found 1</td>
<td>159411</td>
<td>ESL Science Found 1</td>
<td>159511</td>
</tr>
<tr>
<td></td>
<td>ESL Social Studies Found 2</td>
<td>159412</td>
<td>ESL Science Found 2</td>
<td>159512</td>
</tr>
</tbody>
</table>

Summer School: Math Essentials 1-2 (earns math credit) or ESL 1-2 Enrichment

**Year 2** (Reading Level: Grades 2-4 Fountas and Pinnell Levels J-Q): Schedule for ELLs in the US 1-3 years.

<table>
<thead>
<tr>
<th>Block/Period</th>
<th>Day A or Periods 1-4</th>
<th>Course #</th>
<th>Day B or Periods 5-8</th>
<th>Course #</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>ESL 3*</td>
<td>155351</td>
<td>ESL 3</td>
<td>155352</td>
</tr>
<tr>
<td></td>
<td>ESL 4</td>
<td>155352</td>
<td>ESL 4</td>
<td>155353</td>
</tr>
<tr>
<td>2</td>
<td>ESL Reading 3*</td>
<td>155171</td>
<td>ESL Reading 3</td>
<td>155171</td>
</tr>
<tr>
<td></td>
<td>ESL Reading 4</td>
<td>155172</td>
<td>ESL Reading 4</td>
<td>155172</td>
</tr>
<tr>
<td>3</td>
<td>Math (level depends on ability)</td>
<td>159431</td>
<td>ESL Science Found 3</td>
<td>063141</td>
</tr>
<tr>
<td></td>
<td>Geography (one semester)</td>
<td>159431</td>
<td>ESL Science Found 3</td>
<td>063142</td>
</tr>
</tbody>
</table>

Summer School: Economics / HG

**Year 3** (Reading Level: 5-7 Fountas and Pinnell Levels R - Z): Schedule for ELLs in the US 3+ years.

<table>
<thead>
<tr>
<th>Block/Period</th>
<th>Day A or Periods 1-4</th>
<th>Course #</th>
<th>Day B or Periods 5-8</th>
<th>Course #</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>ESL Reading 5</td>
<td>155251</td>
<td>English 1 ELL</td>
<td>010371</td>
</tr>
<tr>
<td></td>
<td>ESL Reading 6</td>
<td>155252</td>
<td>English 2 ELL</td>
<td>010372</td>
</tr>
<tr>
<td>2</td>
<td>World Language</td>
<td>155252</td>
<td>Economics**(one semester)</td>
<td>010372</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Human Growth (one semester)</td>
<td>010372</td>
</tr>
<tr>
<td>3</td>
<td>Math (level depends on student’s ability)</td>
<td>159431</td>
<td>Elective (Academic Literacy or Speech recommended)</td>
<td>063141</td>
</tr>
<tr>
<td></td>
<td>Geography (one semester)</td>
<td>159431</td>
<td>ESL Science Found 4</td>
<td>063142</td>
</tr>
</tbody>
</table>

Summer School: English 3-4

**Year 4**

<table>
<thead>
<tr>
<th>Block/Period</th>
<th>Day A or Periods 1-4</th>
<th>Day B or Periods 5-8</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>English 5-6</td>
<td>English 7-8***</td>
</tr>
<tr>
<td>2</td>
<td>World Language/Elective</td>
<td>Science Course (Chemistry for University bound)</td>
</tr>
<tr>
<td>3</td>
<td>Math (level depends on student’s ability)</td>
<td>Science Course (Biology)</td>
</tr>
<tr>
<td>4</td>
<td>Am. Government/Financial Literacy</td>
<td>World History</td>
</tr>
</tbody>
</table>

**Economics could be taken either in the summer after year 2 or during year 3.**

**Student could take English 7-8 through Accelere or in summer school following year 4.**

This plan will provide students with the OPS HS graduation requirements in four years. Students must plan to attend summer school as well as the supportive learning opportunities on Saturdays, Spring Break and in July to meet these requirements.
ESL 1-2
This ESL Reading course is offered daily and worth 2 credits due to double seat time. The course is designed to build reading skills in English for the beginning ESL student. The focus will be to provide successful experiences in reading comprehension and fluency at a beginning level, while building skills in recognizing basic sight words, using context clues and prior knowledge to derive word meaning, identifying main ideas, summarization of reading passages, and dictionary usage.

Grade Level: 09, 10, 11, 12 Status: Elective

ESL 3-4
This ESL Writing and Grammar course is offered daily and worth 2 credits due to double seat time. This course is designed for the intermediate ESL student. The focus of this course will be to continue the development of communication skills, English language vocabulary, and understanding of grammatical structures. Successful completion of learning goals from ESL 1-2 or demonstration of equivalent skills is required for registration in this course.

Grade Level: 09, 10, 11, 12 Status: Elective

ESL READING 1-2
This ESL Reading course is offered daily and worth 2 credits due to double seat time. The course is designed to build reading skills in English for the beginning ESL student. The focus will be to provide successful experiences in reading comprehension and fluency at a beginning level, while building skills in recognizing basic sight words, using context clues and prior knowledge to derive word meaning, identifying main ideas, summarization of reading passages, and dictionary usage.

Grade Level: 09, 10, 11, 12 Status: Elective

ESL READING 3-4
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. Successful completion of learning goals from ESL Reading 1-2 or demonstration of equivalent skills is required for registration in this course.

Grade Level: 09, 10, 11, 12 Status: Elective

ESL READING 5-6
This is the first semester of a year course. This course is designed for advanced ESL students with a focus on developing increased fluency in reading more advanced materials. Students will develop comprehension strategies and build vocabulary skills, as well as develop capacity for written response to a variety of reading materials. Successful completion of learning goals from ESL Reading 3-4 or demonstration of equivalent skills is required for registration in this course.

Grade Level: 09, 10, 11, 12 Status: Elective

ESL SOCIAL STUDIES FOUNDATION 1-2
This is a semester-long course that provides students with English language and literacy development through a study of family, communities and laws and rules within these communities. This course may also provide the beginning ESL student with basic background information about U.S. history, geography, and government. This course develops study skills, builds vocabulary, and leads to an understanding of key events and historical figures, preparing students for participation in the high school social studies curriculum.

Grade Level: 09, 10, 11, 12 Status: Elective

ESL SOCIAL STUDIES FOUNDATION 3
This is a semester-long course that provides students with basic background information about U.S. history, geography, and government. This course develops study skills, builds vocabulary, and leads to an understanding of key events and historical figures, preparing students for Human Geography, to be taken second semester and for participation in future high school social studies curriculum.

Grade Level: 09, 10, 11, 12 Status: Elective
ESL SCIENCE FOUNDATION 1-2 159511/159512

This is a semester-long course that provides students with literacy and English language instruction through an introduction to science and science concepts. This course develops study skills, builds vocabulary, and leads to an understanding of key concepts in physical and life sciences as students prepare for participation in the high school science curriculum.

Grade Level: 09, 10, 11, 12  Status: Elective

ESL SCIENCE FOUNDATION 3-4 063141/063142

Science Foundation is an inquiry-based course designed to expose students to natural, environmental, and life sciences. Topics include weather and water cycles, plant studies, environmental changes, and human body systems. This course provides a foundation for other science courses.

Grade Level: 09, 10, 11, 12  Status: Elective

**Course availability may change**
SPORTS NUTRITION 140141
This course focuses on general nutrition, healthy lifestyles, diet choices, and optimal athletic performance.
Grade Level: 09, 10, 11, 12  Status: Elective

FAMILY LIVING 140791/140792
This course focuses on the family as the basic unit of society, recognizing the diversity and responsibilities included in maintaining a strong family. Skills are strengthened in resource management, decision-making, communication skills, developing healthy relationships, and crisis management.
Grade Level: 9, 10, 11, 12  Status: Elective

TEEN PARENTING 1-2 140771/140772
This course helps pregnant or parenting students work toward better parenting skills. Students analyze the roles and responsibilities of parents, families, and other caregivers in the development of healthy infants and children. Emphasis for these teen parents is placed on taking responsibility for personal choices, school success and future employment.
Grade Level: 9, 10, 11, 12  Status: Elective
Prerequisite: Pregnant or parenting students only

EARLY CHILDHOOD EDUCATION PATHWAY

CHILD DEVELOPMENT 1-2 140721/140722
This course will provide students with knowledge and skills necessary for working with children as parents or caregivers. Topics of study will include parenting readiness, guidance, family differences, prenatal development, the birth process, and early childhood developmental stages.
Grade Level: 09, 10, 11, 12  Status: Elective

HONORS CHILD DEVELOPMENT 1-2 140731/140732
This honors course introduces the challenges and responsibilities of guiding the physical, emotional, social and intellectual development of children. This course is aligned with a dual credit opportunity and is a required course for the Early Childhood Career Pathway.
Grade Level: 10, 11, 12  Status: Elective
Prerequisite: Grade of an A, B or C in Intro to Early Childhood 1-2

HONORS CHILD DEVELOPMENT 3-4 140741/140742
This honors course prepares students for the challenges and responsibilities of guiding the physical, emotional, social and intellectual development of children and for employment in the childcare field. This course is aligned with a dual credit opportunity and is a required course for the Early Childhood Career Pathway.
Grade Level: 11, 12  Status: Elective
Prerequisite: Grade of an A, B or C in Honors Child Development 1-2

HONORS INTRO TO EDUCATION 141031/141032
This course will expose students to the education profession through an introduction to preservice preparation, societal influences on education, classroom practices, and the governance structures which impact teachers and schools. This course is aligned with a dual enrollment opportunity for eligible students. A field experience is encouraged.
Grade Level: 10, 11, 12  Status: Elective
FOODS 1-2 (Accelerated)
This course introduces nutrition, wellness and food preparation skills to students. The course involves the study of cultural and social aspects of nutrition and food time management. **This course is for students interested in a culinary career.**

*Grade Level:* 10, 11  
*Status:* Elective  
*Duration:* One Semester  
*Prerequisite:* Application required (see counselor)

CULINARY SKILLS 1-2 (Accelerated)
This course introduces professional skills related to the culinary industry including basic cooking procedures, kitchen safety and sanitation, tool and equipment usage, and preparation of stocks and sauces. Students will apply these skills through catering projects and experiences. **This course is for students interested in a culinary career.**

*Grade Level:* 10, 11  
*Status:* Elective  
*Duration:* One Semester  
*Prerequisite:* Grade of C or higher in Foods 1-2/Application required (see counselor)
Mathematics

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 percents, solving linear equations and inequalities, graphing linear equations, working with polynomials, and using measures of central tendency to interpret data.

Grade Level: 9  Status: Meets requirement
Prerequisite: Teacher recommendation

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.

Grade Level: 9, 10, 11, 12  Status: Meets requirement

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.

Grade Level: 9  Status: Meets requirement
Prerequisite: Any of the following*: Grade of “A” in Pre-Algebra 1-2, MAP Math score at or above a score determined by District Math Supervisor, and/or Orleans-Hanna Prognosis Test Score at or above 75.

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.

Grade Level: 9, 10, 11, 12  Status: Meets requirement
Prerequisite: Passing grades in both semesters of Algebra 1-2
Note: Students intending to register for calculus in their junior or senior year are required to follow an honors level curriculum in mathematics

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.

Grade Level: 9, 10, 11  Status: Meets requirement
Prerequisite: Any one of the following*: Grade of “A” in Algebra 1-2, Grade of “B” or higher in Honors Algebra 1-2, MAP Math score at or above a score determined by District Math Supervisor.
Note: Students intending to register for Calculus in their junior or senior year are required to follow an honors level curriculum in 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.
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.

**Grade Level:** 10, 11, 12  
**Status:** Meets requirement

**Prerequisite:** Passing grade in ALL semesters of Algebra 1-2 and Geometry 1-2

**Note:** Students intending to register for Calculus in their junior or senior year are required to follow an honors level curriculum in mathematics. 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.

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.

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

**Prerequisite:** Any one of the following*: Grade of “A” in Algebra 1-2 or Geometry 1-2, Grade of “B” or higher in Honors Algebra 1-2, MAP Math score at or above a score determined by District Math Supervisor.

**Note:** Students intending to register for Calculus in their junior or senior year are required to follow an honors level curriculum in mathematics.

MATH ANALYSIS 041231/041232

Math Analysis is a full-year terminal math course for students who have reached proficiency in advanced algebra topics but have no intention of pursuing math- or science-related fields of study in post-secondary school. The course content includes Critical Thinking, Set Theory, Number Theory, Functions, Measurement, Personal Finance, Combinatorics, Probability, Statistics, and Logic.

**Grade Level:** 12  
**Status:** Meets requirements

**Prerequisite:** Passing grades in ALL semesters of Algebra 1-2, Geometry 1-2, and Algebra 3-4

**Note:** This class is not for students who intend on pursuing math or science related fields in a post-secondary school.

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.

**Grade Level:** 10, 11, 12  
**Status:** Meets requirement

**Prerequisite:** Passing grades in ALL semesters of Algebra 1-2, Geometry 1-2, and a grade of C or higher in Algebra 3-4.

**Note:** Students intending to register for Calculus in their junior or senior year are required to follow an honors level curriculum in mathematics. Students taking this course as an eleventh grader must take Probability and Statistics as a twelfth grader.

*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.
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.

Grade Level: 09, 10, 11, 12
Prerequisite: 9th grade students should follow other grade level prerequisites. Note, 9th graders in Honors Pre-CalcTrig 1-2 as 9th graders have been on a unique accelerated path since 6th grade or earlier.

Note: Students intending to register for Calculus in their junior or senior year are required to follow an honors level curriculum in mathematics.

HONORS LINEAR ALGEBRA 040311
This course is designed for students who have excelled in all levels of algebra-based mathematics. Topics include matrices and systems of equations, vector spaces, real inner product spaces, linear transformations, determinants, eigenvalues, diagonal ability, quadratic forms, eigenvectors, and symmetric matrices.

Grade Level: 11, 12
Status: Meets requirement
Duration: One Semester
Prerequisite: Grade of A or B in Honors Pre-Calculus/Trigonometry
Requisite: Paired with Honors Discrete Mathematics

HONORS DISCRETE MATHEMATICS 040521
This course provides a study of material prerequisites to college-level mathematics. It deals with discrete objects and finite processes as opposed to the infinite limits and continuous functions of calculus. Data structures, algorithms, and the theory of computation are emphasized.

Grade Level: 11, 12
Status: Meets requirement
Duration: One Semester
Prerequisite: Grade of an A or B in Honors Pre-Calculus/Trigonometry
Requisite: Paired with Honors Linear Algebra

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.

Grade Level: 11, 12
Status: Meets requirement
Prerequisite: Grade of A or B in Honors Pre-Calculus/Trigonometry or teacher recommendation
Requisite: A summer project will be required for this class

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.

Grade Level: 11, 12
Status: Meets requirement
Prerequisite: Grade of A or B in Honors Pre-Calculus/Trigonometry or teacher recommendation
Requisite: A summer project will be required for this class.

HONORS CALCULUS 3 040471
Topics are from multivariable calculus and include partial derivatives, multiple integrals and calculus of vector functions.

Grade Level: 11, 12
Status: Meets requirement
Duration: One Semester
Prerequisite: Grade of an A or B in AP Calculus BC
Requisite: Paired with Honors Differential Equations

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.

Grade Level: 11, 12
Status: Meets requirement
Duration: One Semester
Prerequisite: Grade of an A or B in AP Calculus BC
Requisite: Paired with Honors Calculus 3
PROBABILITY/STATISTICS 040501/040502
This course offers a study of statistical methods and would be of use for any student planning to pursue professional study in medicine, biology, sociology, psychology, economics, or business. The content includes permutations, combinations, axiomatic probability, organizing and reporting data, binomial and normal distributions, sampling distributions, hypothesis testing, and confidence intervals.

Grade Level: 11, 12  Status: Meets requirement
Prerequisite: Grade of A or B in Algebra 3-4 or placement by math department

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.

Grade Level: 11, 12  Status: Meets requirement
Prerequisite: Grade of A or B in Honors Pre-Calculus/Trigonometry or teacher recommendation
Note: Eleventh graders must be enrolled concurrently with Calculus (AB or BC or H Calculus 3)

HONORS MATHEMATICAL PROBLEM SOLVING 042321
This course is an investigation into heuristics, problem-solution pairs, real-world problems and other approaches and methods relevant to mathematical problem solving.

Grade Level: 09, 10, 11, 12  Status: Elective  Duration: One Semester
Prerequisite: Grade of A or B in Honors Algebra 1-2 or teacher recommendation
Requisite: Paired with Honors Mathematical Proof and Reasoning

HONORS MATHEMATICAL PROOF AND REASONING 042311
This course is an introduction to mathematical reasoning process and proof. Specific topics include formal logic, proofs by counter-example, direct proofs, proofs by contradiction, and mathematical induction.

Grade Level: 09, 10, 11, 12  Status: Elective  Duration: One Semester
Prerequisite: Grade of A or B in Honors Algebra 1-2 or teacher recommendation
Requisite: Paired with Honors Mathematical Problem Solving

CONSUMER MATH 040681/040682
This course is designed to help students develop an understanding of the reasons for and the benefits derived from taxes, the services available from banks and other lending institutions, the workings of insurance, and the basic concepts of consumer credit. The skills obtained in this course will help students become mathematically knowledgeable citizens.

Grade Level: 12  Status: Meets requirement
Prerequisite: Math department placement
Note: This class is not for students who have taken Algebra 3-4, unless placed by math department
Dual Enrollment Modular Math Readiness Program

The Dual Enrollment Modular Math Readiness Program at North High is offered through Metropolitan Community College and is especially designed for seniors who desire to improve their math skills to the level needed to enter a college level math class after graduation. Students can pursue one of two programs: academic track for students intending to transfer to a four-year institution or the trades track for students pursuing a two-year associates degree. Even though it is online and self-paced, students do attend class regularly at Omaha North High Magnet School. Upon successful completion of either program, students would obtain either 4.5 transferrable college credits or 4.5 MCC credits.

Students eligible for this program must fit the following profile:
- desire to pursue a two- or four-year degree
- have struggled with their high school math classes
- have an ACT Math score below 19
- have a current high school GPA of at least 2.0
- have a good attendance record
- are self-motivated and able to work independently

Academic Track Sequence

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 0910-Developmental Mathematics</td>
<td>This course presents basic computational skills for either review or initial mastery by the students. Topics include fractions, decimals, ratios, proportions, operations with integers, and basic study skills for mathematical problem-solving and estimation.</td>
</tr>
<tr>
<td>MATH 0930-Beginning Algebra Part 1</td>
<td>This course is for students who need to learn basic algebra skills. Topics include positive and negative real numbers, solving linear equations and inequalities, and applications of linear equations.</td>
</tr>
<tr>
<td>MATH 0931-Beginning Algebra Part 2</td>
<td>Topics include integer exponents, operations with polynomials, factoring, rational expressions, equations of lines, and graphing of equations and inequalities.</td>
</tr>
<tr>
<td>MATH 1310-Intermediate Algebra</td>
<td>Students develop and apply mathematical skills needed to solve problems related to industrial occupations. Topics include applications of arithmetic skills, measurement, elementary algebra, geometry, and trigonometry.</td>
</tr>
<tr>
<td>MATH 1310-Intermediate Algebra</td>
<td>This course extends basic algebra skills and provides the background necessary for further mathematics courses. Topics include linear, quadratic, polynomial, radical, and rational equations; systems of linear equations; rational exponents and polynomial factoring; rational and radical expressions; complex numbers; and graphs of linear and quadratic functions.</td>
</tr>
</tbody>
</table>

Trades Track Sequence

MATH 910-Developmental Mathematics
MATH 1240-Applied Mathematics (4.5 MCC credits)
Metropolitan Community College’s (MCC)’s Career Academies are designed to provide high school juniors and seniors with opportunities to explore various career fields and get a jumpstart on their postsecondary education. MCC Career Academies increase student awareness in various career fields and gain exposure to a college environment.

**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?** MCC Career Academies are offered at half price tuition.

*Funding for tuition may be available for certain academy programs, see your counselor.

**Time of MCC Career Academies classes:** Most academies meet between 12:30 - 4:00pm, Monday-Thursday. More specific information can be found by contacting your counselor.

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. For more information and applications, please see your counselor!

### Available MCC Career Academies

<table>
<thead>
<tr>
<th>Course</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Diesel Technology</td>
<td>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 if diesel engine technology.</td>
</tr>
<tr>
<td>Fire Science Technology</td>
<td>Located at the MCC Applied Technology Center at 10407 State Street. Students learn about fire, firefighting, and EMT training.</td>
</tr>
<tr>
<td>Heating, Air Condition and Refrigeration (HVAC)</td>
<td>Located at MCC Fort Omaha Campus at 30th and Fort. Students learn heating, air conditioning, ventilation, and refrigeration.</td>
</tr>
<tr>
<td>Pre-Apprenticeship Plumbing</td>
<td>Located at MCC Fort Omaha Campus at 30th and Fort. Students learn about residential and commercial plumbing, construction plumbing safety and more.</td>
</tr>
<tr>
<td>Theatre Technology</td>
<td>Located at The Omaha Community Playhouse at 6915 Cass. Students learn about the blend of visual arts/design, music, research, technology and more.</td>
</tr>
<tr>
<td>Utility Line Technician</td>
<td>Located at the MCC Applied Technology Center at 10407 State Street. Students learn installation, operation, and maintenance of electrical utility lines.</td>
</tr>
</tbody>
</table>

**MCC Webpage**

Military Science

SPECIAL COURSE INFORMATION:
1. All cadets must wear the issued uniform once a week as directed.
2. High standards in bearing, appearance, conduct and performance are required.
3. Students must be prepared to accept instructions and directions from instructors and fellow cadets.
4. Enrollment in J ROTC DOES NOT obligate students for any future military service.

BEGINNING MARKSMANSHIP 070781/070782
Beginning Marksmanship will include detailed instruction, guidance and supervision in the safety and art of precision firing with air pellet rifles and air pellet pistols. Participants must be high motivated, dedicated, self-disciplined, and agile. Each participant must successfully pass a safety exam to become qualified to take part in the marksmanship program. Individuals are eligible to participate in postal and shoulder-to-shoulder rifle matches in and outside of Omaha.

Grade Level: 9, 10, 11, 12 Status: Elective
Prerequisite: Normal distance vision with glasses and instructor permission
Requisite: Concurrent enrollment in J ROTC

INTERMEDIATE MARKSMANSHIP 071051/071052
Intermediate Marksmanship is a continuation of beginning marksmanship. This course provides continued instruction and training in firearm safety, marksmanship, coaching, and target scoring. Participants must be high motivated, dedicated, self-disciplined, and agile. Each participant must successfully pass a safety exam to become qualified to take part in the marksmanship program.

Grade Level: 10, 11, 12 Status: Elective
Prerequisite: Normal distance vision with glasses and instructor permission
Requisite: Concurrent enrollment in J ROTC

ADVANCED MARKSMANSHIP 070791/070792
Advanced Marksmanship is a continuation of beginning and intermediate marksmanship. This course provides advanced instruction and training in firearm safety, marksmanship, coaching, and target scoring. Cadets will be eligible to participate in varsity marksmanship matches. Participants must be high motivated, dedicated, self-disciplined, and agile. Each participant must successfully pass a safety exam to become qualified to take part in the marksmanship program. Individuals are eligible to participate in postal and shoulder-to-shoulder rifle matches in and outside of Omaha.

Grade Level: 10, 11, 12 Status: Elective
Prerequisite: Normal distance vision with glasses, beginning marksmanship, and instructor permission
Requisite: Concurrent enrollment in J ROTC

J ROTC 1-2 – LEADERSHIP EDUCATION AND TRAINING (LET 1) 070811/070812
This course includes classroom instruction and laboratory instruction in history, customs, traditions, and purpose of Army Junior ROTC. Cadets will study and develop basic leadership skills: Including; leadership principles, traits, values, and attributes. A student’s development of core values, and appreciation for diversity, and active learning strategies are integrated throughout the course. Cadets will be required to write a research paper during the year. The performance standards of this course are based on the performance standards identified in the curriculum for the US Army Junior ROTC. 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.

Grade Level: 9, 10, 11, 12 Status: Meets PE requirement
J ROTC 3-4 – LEADERSHIP EDUCATION AND TRAINING (LET 2) 070821/070822

This course includes classroom instruction and laboratory introduction expanding skills taught in JROTC 1-2 (LET 1). Topics include basic map reading, and first aid, Intermediate Leadership Development provides instruction on leadership styles and practical time to exercise leadership theories as well as the basic principles of management. The course allows for personal assessments which help cadets determine their skill sets. Cadets will be required to write a research paper during the year. Opportunities to teach using accepted principles and methods of instruction are also offered. 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.

Grade Level: 10, 11, 12  Status: Meets PE requirement

J ROTC 5-6 (LET 3) 070831/070832

Topics in this course include advanced map reading, principles of leadership, methods of instruction, technology awareness, advanced management problems, military history, and physical fitness. Cadets are required to present one instructional lesson per quarter. Cadets will be required to write a research paper during the year. 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.

Grade Level: 11, 12  Status: Meets PE requirement
Prerequisite: JROTC 3-4 instructor permission with parent/student signatures indicating full year commitment

HONORS J ROTC 7-8 (LET 4) 070741/070742

This course will incorporate all the requirements of J ROTC 7-8. In addition, cadets must complete reading on the role of the Army in support of national objectives and leadership, present one period of instruction per quarter, and complete one research paper on a selected topic. The honors cadet will be required to do two community service projects or two school service projects. Each honors cadet will be required to present one period of instruction per quarter. 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.

Grade Level: 12  Status: Meets PE requirement
Prerequisite: JROTC 5-6, instructor permission with parent/student signatures indicating full year commitment
NOTE: Directors will determine placement through an audition. Participation in any performing ensemble listed below includes mandatory attendance at all rehearsals and concerts scheduled outside school hours. If there are any questions prior to enrolling in one of the following performing ensembles, it is the student’s responsibility to check activity schedules with the director of the ensemble. 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.

- **Grade Level:** 9, 10, 11, 12
- **Status:** Elective
- **Prerequisite:** Audition

**MENS 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.

- **Grade Level:** 9, 10, 11, 12
- **Status:** Elective
- **Prerequisite:** Audition

**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.

- **Grade Level:** 9, 10, 11, 12
- **Status:** Elective
- **Prerequisite:** Audition

**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.

- **Grade Level:** 9, 10, 11, 12
- **Status:** Elective
- **Prerequisite:** Audition

**HONORS SWING CHOIR—"Explosion!" 190331/190332**
This course is the principal 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)

- **Grade Level:** 9, 10, 11, 12
- **Status:** Elective
- **Prerequisite:** Audition

**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.

- **Grade Level:** 9, 10, 11, 12
- **Status:** Elective
- **Prerequisite:** Audition/Permission from Instructor
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.
Grade Level: 9, 10, 11, 12 Status: Elective
Prerequisite: Audition only

CONCERT BAND 190621/190622
This course is considered to be the principal performing band in the high school instrumental music curriculum. Students will rehearse and perform standard band literature designed to strengthen basic musicianship and instrumental technique. Membership is by audition. In the senior high school, the Concert Band also serves as the nucleus for the marching band program as a part of the first semester’s activities. Other performances include fall, winter and spring concerts as well as the All-City Music Festival.
Grade Level: 9, 10, 11, 12 Status: 1st semester meets PE requirement
Prerequisite: Audition

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.
Grade Level: 09 Status: 1st semester meets PE requirement
Prerequisite: Audition

H SYMPHONIC BAND 190652
This course is considered to be 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.
Grade Level: 11, 12 Status: Elective (2nd semester only)
Prerequisite: Audition

INSTUMENTAL 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.
Grade Level: 9 Status: Elective
Prerequisite: Previous stringed instrumental music experience

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.
Grade Level: 9, 10, 11, 12 Status: Elective
Prerequisite: Previous stringed instrumental music experience

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.
Grade Level: 9, 10, 11, 12 Status: Elective
Prerequisite: Audition
HONORS MUSIC THEORY 190521/190522
This course includes the study of fundamental notation, intervals, triads, basic chord structure and principles of voice leading. Students electing this course should have some basic music reading knowledge and advanced interest in the formal study of music. The course is considered to be a pre-college course, which may result in advanced placement in a college music theory program. Additional assignments will be required to receive Honors Credit.

**Grade Level:** 10, 11, 12  **Status:** Elective
**Prerequisite:** Prior music experience

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.

**Grade Level:** 11, 12  **Status:** Elective
**Prerequisite:** Prior music experience

MUSIC TECHNOLOGY 190971/190972
This course is designed for students interested in music and its related computer applications. No previous experience in computers or music is necessary. Students will explore electronic musical instruments, computer-assisted instructions, MIDI sequencing and music notation.

**Grade Level:** 09, 10, 11, 12  **Status:** Elective
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.
Grade Level: 9 Status: Meets requirement

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.
Grade Level: 10, 11, 12 Status: Meets requirement

ADVANCED WEIGHT TRAINING AND CONDITIONING 070281/070282
This is a second year class that expands instruction in strength, flexibility and aerobic training.
Grade Level: 11, 12 Status: Meets requirement
Prerequisite: Grade of A or B in Weight Training and Conditioning 1-2

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.
Grade Level: 10, 11, 12 Status: Meets requirement

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.
Grade Level: 10, 11, 12 Status: Meets requirement

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.
Grade Level: 10, 11, 12 Status: Meets requirement

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.
Grade Level: 10, 11, 12 Status: Meets requirement
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.

**Grade Level:** 09, 10, 11, 12  
**Status:** Meets requirement
**Science**

**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.

*Grade Level:* 9  
*Status:* Meets requirement

**HONORS PHYSICAL SCIENCE 1-2** 060531/060532

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. Students enrolled in honors courses have additional experiences that require a more rigorous program of study.

*Grade Level:* 9  
*Status:* Meets requirement  
*Prerequisite:* Any of the following*: Grades of “B” or higher in Science 8 1 and 2 AND concurrent enrollment in Algebra 1-2 or higher math course, and/or MAP Math Score at or above a score determined by District Math Supervisor AND MAP Science Score at or above a score determined by District Science Supervisor.

**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.

*Grade Level:* 10  
*Status:* Meets requirement

**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.

*Grade Level:* 10  
*Status:* Meets requirement  
*Prerequisite:* Any of the following*: Grade of “A” in Physical Science 1 and 2 (Current 9th grade only), Grade of “B” or higher in Honors Physical Science 1 and 2, and/or MAP Science score at or above a score determined by District Science supervisor.

**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.

*Grade Level:* 11, 12  
*Status:* Meets requirement  
*Prerequisite:* Grade of A or B in Honors science classes or AP Physics and teacher recommendation  
*Requisite:* A summer project/writing assignment may be required.  
*Note:* 2 blocks/2 semesters

*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.
ANATOMY AND PHYSIOLOGY 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.

Grade Level: 10, 11, 12  Status: Elective
Prerequisite: Biology 1-2 and Physical Science 1-2

HONORS ANATOMY & 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.

Grade Level: 10, 11, 12  Status: Elective
Prerequisite: Grade of A or B in Honors Physical Science 1-2 or Honors Biology 1-2 or teacher recommendation

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.

Grade Level: 10, 11, 12  Status: Elective
Prerequisite: Prerequisites: Physical Science 1-2, Biology 1-2 (concurrent enrollment in Biology 1-2 is acceptable with teacher recommendation), and successful completion of, or concurrent enrollment in, Algebra 1-2.

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.

Grade Level: 10, 11, 12  Status: Elective
Prerequisite: Grade of A or B in Honors Biology 1-2 or Honors Physical Science 1-2 AND grade of A or B in Algebra 1-2 or teacher recommendation

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.

Grade Level: 11, 12  Status: Elective
Prerequisite: Algebra 3-4 (may be taken concurrently) and Grade of A, B, or C in H Chemistry 1-2, Grade of A in Chemistry or AP Physics with teacher recommendation.

Note: 2 blocks/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.

Grade Level: 10, 11, 12  Status: Elective
Prerequisite: Physical Science 1-2, Biology 1-2 (concurrent enrollment in Biology 1-2 is acceptable with teacher recommendation), and successful completion of, or concurrent enrollment in Algebra 1-2.
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.
Grade Level: 9, 10, 11, 12 Status: Meets requirement
Prerequisite: Grade of A or B in Geometry 1-2 or teacher recommendation
Requisite: Concurrent enrollment in H Algebra 3-4 or higher is required.

PLANT SCIENCE 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.
Grade Level: 10, 11, 12 Status: Elective Duration: One Semester
Prerequisite: Physical Science 1-2 and Biology 1-2 or concurrent enrollment in Biology 1-2.

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. This course can be first, second, or both semesters.
Grade Level: 10, 11, 12 Status: Elective Duration: One or both semesters
Prerequisite: Physical Science 1-2, and Biology 1-2 or concurrent enrollment in Biology 1-2

FOOD CHEMISTRY 061551
This course is a one semester introduction to food science. Food Chemistry applies both chemical and biological concepts to a familiar topic: food. Food scientists use the scientific method to conduct laboratory experiments involving food. This growing field involves the production, processing, evaluation and utilization of food. This is not a food preparation course, however, the relations between food and nutrition are explored. Critical reasoning skills, writing and laboratory skills are developed through measuring, recording and graphing data, evaluating laboratory results and writing laboratory reports. Successful completion of this course would fulfill one semester of elective science credit.
Grade Level: 10, 11, 12 Status: Elective Duration: One Semester
Prerequisite: Physical Science 1-2

HONORS FOOD CHEMISTRY
This course is a one semester introduction to food science. Food Chemistry applies both chemical and biological concepts to a familiar topic: food. Food scientists use the scientific method to conduct laboratory experiments involving food. This growing field involves the production, processing, evaluation and utilization of food. This is not a food preparation course, however, the relations between food and nutrition are explored. Critical reasoning skills, writing and laboratory skills are developed through measuring, recording and graphing data, evaluating laboratory results and writing laboratory reports. Successful completion of this course would fulfill one semester of elective science credit. Students enrolled in honors courses have additional experiences that require a more rigorous program of study.
Grade Level: 10, 11, 12 Status: Elective Duration: One Semester
Prerequisite: Grade of A or B in Physical Science 1-2
HONORS ZOOLOGY 060331
This course is a one semester introduction to animal diversity. Honors Zoology engages students in the study of animal life to include their anatomy, interrelationships, physiology, genetics, distributions and habitats. It focuses on the ways in which animals have adapted to the often difficult environments they inhabit, how they live, find food, and reproduce. Laboratory research skills and advanced microscope techniques are developed.

Grade Level: 11, 12 Status: Elective Duration: One Semester
Prerequisite: Successful completion of Physical Science 1-2 and Biology 1-2 with a C or better

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.

Grade Level: 9, 10, 11, 12 Status: Elective
Prerequisite: Successful completion of Physical Science 1-2 and Algebra 3-4

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.

Grade Level: 9, 10, 11, 12 Status: Elective
Prerequisite: Successful completion AP Physics 1

AP PHYSICS C: MECHANICS 061971/061972
This version of AP Physics: Mechanics is a two-semester course that is equivalent to a one-semester, calculus-based, college-level physics course, especially appropriate for students planning to specialize or major in physical science or engineering. The course explores topics such as kinematics; Newton’s laws of motion; work, energy, and power; systems of particles and linear momentum; circular motion and rotation; and oscillations and gravitation. Introductory differential and integral calculus is used throughout the course.

Grade Level: 9, 10, 11, 12 Status: Elective
Prerequisite: Physics 1-2 or Honors Physics 1-2, and concurrent enrollment in, or completion of Calculus 1-2.

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.

Grade Level: 11, 12 Status: Elective
Prerequisite: Grade of A or B in 2 years of science/Honors Chemistry is highly recommended

FORENSIC SCIENCE 061331/061332
This course promotes active learning and emphasizes the application and integration of math, chemistry, biology, physics, and Earth science. Topics covered include: The collection, handling, and examination of trace evidence such as hair, fibers, soil, pollen, and glass; fingerprint, blood, and blood splatter examination; DNA, drug and toxicology testing; handwriting and tool mark analysis; voice examination; impressions; ballistics, and forensic anthropology.

Grade Level: 11, 12 Status: Elective
Prerequisite: Successful completion of Physical Science 1-2 and Biology 1-2
ASTRONOMY 060801
Astronomy is a study of the objects in the night sky, their size, motions, composition, and relation to one another. Students study the Earth-moon system, diagram objects in the solar system, explore the leading theories for the origin of the universe, and outline the life cycle of a star.

Grade Level: 09, 10, 11, 12  Status: Elective  Duration: One Semester

HONORS ASTRONOMY 060811
This course is a study of the objects in the night sky, their size, motions, composition, and relation to one another. Students will study the earth-moon systems, diagram objects in the solar system, explore the leading theories for the origin of the universe, and outline the life cycle of a star. This course is a more in-depth study of the topics in Astronomy. Students will be required to complete and present research-based projects. Students enrolled in honor courses have additional experiences that require a more rigorous program of study.

Grade Level: 09, 10, 11, 12  Status: Elective  Duration: One Semester
Prerequisite: Physical Science 1-2 or concurrent enrollment in Physical Science with a grade of C or higher in previous math and science courses, or teacher recommendation and Algebra 1-2 or concurrent enrollment in Algebra 1-2

HONORS ENVIRONMENTAL SUSTAINABILITY 171101/17102
In ES, students investigate and design solutions in response to real-world challenges related to clean and abundant drinking water, food supply issues, and renewable energy. Applying their knowledge through hands-on activities and simulations, students research and design potential solutions to these true-to-life challenges.

Grade Level: 10, 11, 12  Status: Elective

MARINE BIOLOGY 060821
The purpose of this course is to provide an overview of the marine environment. Laboratory investigations of selected topics in the content, which also include the use of scientific method, measurement, laboratory apparatus, and safety procedure, are an integral part 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, characteristics of major marine ecosystems, characteristics of major marine phyla/divisions, and the interrelationship between humans and the ocean. This course will provide an introduction to the flora and fauna of the marine environment. Additionally, this course provides opportunities for the students’ participation in research, experimentation, dissection, field studies, and decision-making. Selected groups of marine organisms will be used 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 our climate and weather will be also be discussed as well as the importance of ocean currents and upwelling.

Grade Level: 10, 11, 12  Status: Elective  Duration: One Semester
Prerequisite: Physical Science 1-2 and Biology 1-2

SCIENCE SEMINAR 1-2 060861/060862
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.

Grade Level: 09, 10, 11, 12  Status: Elective

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.

Grade Level: 09, 10, 11, 12  Status: Elective
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 Project Lead The Way (PLTW) Biomedical Sciences program parallels the proven PLTW Engineering program.

**FOUNDATION COURSES**

**HONORS PRINCIPLES OF BIOMEDICAL SCIENCE**

In this course students explore the concepts of molecular biology related to human medicine and are introduced to research processes. Hands-on projects enable students to investigate human body systems and various inheritable and environmental health conditions. By engaging in activities like dissecting a sheep heart, students explore concepts of biology and medicine to determine factors that led to the death of a fictional person. The key biological concepts embedded in the curriculum include homeostasis, metabolism, inheritance of traits, feedback systems, and defense against disease. Where appropriate, engineering principles are also incorporated.

**Grade Level:** 9, 10  
**Status:** Elective  
**Prerequisite:** Grade of A or B in previous science courses  
**Requisite:** Concurrent enrollment with Biology

**HONORS HUMAN BODY SYSTEMS**

Students examine the processes, structure and interactions of the human body systems. Using real-world cases, students take the role of biomedical professionals and work together to solve medical mysteries. Hands-on projects include designing experiments, investigating the structures and functions of the body systems and using data acquisition software to monitor body functions such as muscle movement, reflex and voluntary actions and respiratory operation. Important concepts covered in the course are communication, transport of substances, locomotion, metabolic processes, defense and protection. Through projects such as determining the identity of a skeleton using both forensic anthropology and DNA analysis, students examine the interactions of human body systems and apply what they know to solve real-world medical cases.

**Grade Level:** 10, 11  
**Status:** Elective  
**Prerequisite:** Successful completion of H PBS  
**Requisite:** Concurrent enrollment in chemistry or physics

**HONORS MEDICAL INTERVENTIONS**

Students' projects investigate various medical interventions that extend and improve quality of life, including gene therapy, pharmacology, surgery, prosthetics, rehabilitation, and supportive care. Students delve into activities like designing a prosthetic arm as they follow the life of a fictitious family and investigate how to prevent, diagnose, and treat disease.

**Grade Level:** 11, 12  
**Status:** Elective  
**Prerequisite:** Successful completion of Honors Human Body System
HONORS BIOMEDICAL INNOVATION  063191/063192

This course is the capstone course for the PLTW Biomedical Sciences sequence. Students design innovative solutions for the health challenges of the 21st century. They work through progressively challenging open ended problems, addressing topics such as clinical medicine, physiology, biomedical engineering, and public health. They have the opportunity to work on an independent project with a mentor or advisor from a university, hospital, research institution, or the biomedical industry. Throughout the course, students are expected to present their work to an audience of STEM professionals.

Grade Level:  12  Status:  Elective
Prerequisite:  Successful completion of Honors Medical Interventions
Social Studies

U.S. HISTORY 1-2 030901/030902
This course continues the study of United States history from 1914 to the present. Students address the social, economic, and political development of the nation and relate it to both the past and present. Instruction is organized around the themes of geography, history, economics, culture, and the elements of citizenship. Students investigate these themes using textbooks, newspapers, novels, primary sources, and technology.

Grade Level: 9 Status: Meets requirement

HONORS U.S. HISTORY 1-2 030911/030912
This course continues the study of United States History from 1914 to the present. Students address the social, economic, and political development of the nation and relate it to both the past and present. Instruction is organized around the themes of geography, history, economics, culture and the elements of citizenship. Students investigate these themes using textbooks, newspapers, novels, primary sources, and technology. Students are required to research and analyze specific concepts in United States history and relate it to current events. This is a rigorous course designed for motivated students.

Grade Level: 9 Status: Meets requirement
Prerequisite: Any one of the following*: Grade of “B” or higher in Social Studies 1 and 2, and/or MAP Reading score at or above a score determined by District Social Studies Supervisor

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.

Grade Level: 9, 10, 11, 12 Status: Meets Requirement
Prerequisite: Grade of A or B in previous honors level social studies course or teacher recommendation
Requisite: A summer project will be required for this class

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.

Grade Level: 10 Status: Meets requirement Duration: One 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.

Grade Level: 10 Status: Meets requirement Duration: One Semester

*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
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.

**Grade Level:** 10  
**Status:** Meets requirement  
**Duration:** One 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.

**Grade Level:** 10  
**Status:** Meets requirement  
**Duration:** One Semester  
**Prerequisite:** Grade of A or B in previous honors level social studies course or teacher recommendation

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.

**Grade Level:** 10  
**Status:** Meets requirement  
**Prerequisite:** Teacher recommendation

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.

**Grade Level:** 11  
**Status:** Meets requirement

AP WORLD HISTORY 030421/030422
Advanced Placement World History 1-2 focuses on developing students' understanding of world history from approximately 8000 BCE to the present. Students investigate the content of world history for significant events, individuals, developments, and processes in six historical periods, and develop and use the same thinking skills and methods (analyzing primary and secondary sources, making historical comparisons, chronological reasoning, and argumentation) employed by historians when they study the past. The course also provides five themes (interaction between humans and the environment; development and interaction of cultures; state building, expansion, and conflict; creation, expansion, and interaction of economic systems; and development and transformation of social structures) that students explore throughout the course in order to make connections among historical developments in different times and places encompassing the five major geographical regions of the globe: Africa, the Americas, Asia, Europe, and Oceania.

**Grade Level:** 11  
**Status:** Meets requirement  
**Prerequisite:** Grade of A or B in previous honors level social studies course or teacher recommendation

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.

**Grade Level:** 12  
**Status:** Meets requirement  
**Duration:** One 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.

Grade Level: 12  
Status: Meets requirement  
Duration: One Semester  
Prerequisite: Grade of A or B in previous honors level social studies course or teacher recommendation

AP GOVERNMENT AND POLITICS: COMPARITIVE 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.

Grade Level: 12  
Status: Meets requirement  
Duration: One Semester  
Prerequisite: Grade of A or B in previous honors level social studies course or teacher recommendation

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.

Grade Level: 10, 11, 12  
Status: Elective  
Duration: One 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.

Grade Level: 10, 11, 12  
Status: Elective  
Duration: One Semester  
Prerequisite: Grade of A or B in previous honors level social studies course or teacher recommendation

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.

Grade Level: 09, 10, 11, 12  
Status: Elective  
Duration: One 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.

Grade Level: 09, 10, 11, 12  
Status: Elective  
Duration: One 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.

Grade Level: 9, 10, 11, 12  
Status: Elective  
Duration: One Semester
WOMEN’S HISTORY
A study of the issues faced by women in American History.
Grade Level: 9, 10, 11, 12  Status: Elective  Duration: One Semester

LAW AND JUVENILE JUSTICE
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.
Grade Level: 11, 12  Status: Elective  Duration: One Semester

HONORS ACADEMIC DECATHLON
The United States Academic Decathlon emphasizes the personal and academic growth of each student who, by meeting the challenges with honesty and integrity, can reap the rewards of greater self-knowledge and self-confidence. The ten-event academic program strives to foster a greater respect for knowledge, to promote wholesome inter-school academic competition, and to further develop student communication skills.
Grade Level: 10, 11, 12  Status: Elective
Prerequisite: Teacher recommendation

AP ART HISTORY
In this course, students examine and critically analyze major forms of artistic expression from the past and the present from a variety of cultures. This course will emphasize understanding of how and why works of art function and effects of works of art. Students will extensively use the critical process of description, analysis, interpretation and evaluation of architecture, sculpture, painting, and other art forms within diverse historical and cultural contexts during discussions, research and writing. Course content will cover art history from Ancient to Medieval; Renaissance to Present and cultures beyond the European artistic traditions. Course participants will be prepared, but are not required, to take the Advanced Placement exam to earn college credit.
Grade Level: 10, 11, 12  Status: Elective

H INTRO TO WORLD RELIGIONS
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.
Grade Level: 10, 11, 12  Status: Elective  Duration: One Semester
Students with disabilities have a variety of course options at the high school level. The intent is to provide the maximum amount of participation in the general education setting through strategic interventions, collaborative teaching and direct instruction. Regular district assessments are administered. Students may participate in:

- General education classes with support 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.

- 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.
STUDY SKILLS S 1-2 090731/090732
This course helps students improve skills in the areas of paraphrasing, sentence writing, test and note taking, organization, scanning, improving vocabulary and memorization. Tutorial assistance and remediation are provided to support the general education curriculum.

Grade Level: 9, 10, 11, 12  Status: Elective  Duration: 1 or 2 Semesters

READING S 1-2 090321/090322
This course emphasizes word recognition, comprehension, reading experience, and vocabulary development. The reading program is based on the identified individual needs of students.

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

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.

Grade Level: 9, 10, 11, 12  Status: Elective
National studies have shown that students in career academies are more likely to graduate with the skills and academic requirements to pursue college or career opportunities. A career academy is a small, safe, and supportive learning environment that is contained within a larger high school. An academy has a career and college theme, preparing students for both post-secondary schooling and work.

It is the constant goal of Omaha North High Magnet School and the Omaha Public Schools to keep our curriculum fresh and innovative while preparing our students for future experiences in the workplace and the collegial atmosphere. The Engineering Career Academy at North High will be a cooperative effort between your child’s engineering, English and math instructors. We have chosen to pair engineering and English because it is imperative for engineers to be efficient writers, communicators and presenters. Additionally, a strong foundation in mathematics is essential for students interested in pursuing a degree in engineering. Our outstanding instructors can help your child develop the necessary skills to take their interest in engineering to the next level.

This academy will affect you in the engineering, English and math classroom. Your instructors have worked hard to find opportunities for cross-curricular instruction without changing the standards that are currently being taught in the classroom. The curriculum will mirror learning strategies and align critical thinking through writing and design, presentation/speaking skills, and formulation of ideas.

The table below outlines a typical student’s minimum requirements for Career Academy Courses. Students that enter above grade level in math will remain on the accelerated path.

<table>
<thead>
<tr>
<th>Foundation Course – All Courses Honors</th>
<th>Math Course – All Courses Honors</th>
<th>English Course</th>
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</thead>
<tbody>
<tr>
<td>9 Foundation Course • Required</td>
<td>NCOT Honors Algebra 1-2</td>
<td>NCOT English 1-2 OR NCOT Honors English 1-2</td>
</tr>
<tr>
<td>Introduction to Engineering &amp; Design</td>
<td>• Minimum Requirement</td>
<td></td>
</tr>
<tr>
<td>• 171001/171002</td>
<td>• Prerequisite: Counselor Recommendation</td>
<td></td>
</tr>
<tr>
<td>• Required Course</td>
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</tbody>
</table>

| Foundation Course • Required          | NCOT Honors Geometry 1-2       | NCOT English 3-4 OR NCOT Honors English 3-4 |
| Principles of Engineering             | • Minimum Requirement          |               |
| • 171011/171012                       | • Prerequisite: Honors Algebra 1-2, Teacher Recommendation |
| • Required Course                     |                                |               |

| Specialization Courses • Elective     | NCOT Honors Algebra 3-4        | NCOT English 5-6 OR NCOT AP Language & Composition |
| Digital Electronics                   | • Minimum Requirement          |               |
| • 171021/171022                       | • Prerequisite: Honors Geometry 1-2, Teacher Recommendation |
| Computer Science and Software Engineering |                                |               |
| • 171081/171082                       |                                |               |
| Computer Integrated Manufacturing     |                                |               |
| • 171111/171112                       |                                |               |
| Environmental Sustainability & Bioengineering |                                |               |
| • 171101/171102                       |                                |               |

| Specialization Courses • Elective     | NCOT Honor Pre-Calculus/Trigonometry | NCOT English 7-8 OR NCOT AP Literature & Composition |
| Civil Engineering & Architecture      | • Minimum Requirement              |               |
| • 171071/171072                       | • Prerequisite: Honors Algebra 3-4, Teacher Recommendation |
| Digital Electronics                   | • Prerequisite: 2 years of Engineering coursework | Technical Communication |
| • 171021/171022                       | • Elective                          |               |

| Capstone Course • Required            | NCOT English 7-8 OR NCOT AP Literature & Composition |
| Engineering Design & Development      | Technical Communication |
| • 172001/172002                       | • Elective                          |               |

| Specialization Courses • Elective     | NCOT English 7-8 OR NCOT AP Literature & Composition |
| Civil Engineering & Architecture      | Technical Communication |
| • 171071/171072                       | • Elective                          |               |
| Digital Electronics                   | • Elective                          |               |
| • 171021/171022                       | • Elective                          |               |
| Computer Science and Software Engineering |                                |               |
| • 171081/171082                       |                                |               |
| Computer Integrated Manufacturing     |                                |               |
| • 171111/171112                       |                                |               |
| Environmental Sustainability & Bioengineering |                                |               |
| • 171101/171102                       |                                |               |

| 12 Capstone Course • Required         | NCOT English 7-8 OR NCOT AP Literature & Composition |
| Engineering Design & Development      | Technical Communication |
| • 172001/172002                       | • Elective                          |               |

| Specialization Courses • Elective     | NCOT English 7-8 OR NCOT AP Literature & Composition |
| Civil Engineering & Architecture      | Technical Communication |
| • 171071/171072                       | • Elective                          |               |
| Digital Electronics                   | • Elective                          |               |
| • 171021/171022                       | • Elective                          |               |
| Computer Science and Software Engineering |                                |               |
| • 171081/171082                       |                                |               |
| Computer Integrated Manufacturing     |                                |               |
| • 171111/171112                       |                                |               |
| Environmental Sustainability & Bioengineering |                                |               |
| • 171101/171102                       |                                |               |
PROJECT LEAD THE WAY

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.

<table>
<thead>
<tr>
<th>Grade Level: 9, 10</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Prerequisite: Grade of A or B in Algebra 1-2</td>
<td></td>
</tr>
<tr>
<td>Requisite: Concurrent enrollment Honors NCOT English 1-2 &amp; Honors NCOT Algebra 1-2 or higher</td>
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</tbody>
</table>

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.

<table>
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<tr>
<th>Grade Level: 10, 11, 12</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Prerequisite: Introduction to Engineering Design</td>
<td></td>
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<tr>
<td>Requisite: Concurrent enrollment in Honors NCOT English 3-4 &amp; Honors NCOT Geometry 1-2 or higher</td>
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</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Grade Level: 11, 12</th>
<th>Status: Elective</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prerequisite: Principles of Engineering</td>
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</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Grade Level: 10, 11, 12</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Requisite: Concurrent enrollment in college preparatory mathematics class</td>
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</tbody>
</table>

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.

<table>
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<th>Grade Level: 10, 11, 12</th>
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<tr>
<td>Prerequisite: Concurrent enrollment in college preparatory mathematics class</td>
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HONORS ENVIRONMENTAL SUSTAINABILITY 171101/171102
In ES, students investigate and design solutions in response to real-world challenges related to clean and abundant drinking water, food supply issues, and renewable energy. Applying their knowledge through hands-on activities and simulations, students research and design potential solutions to these true-to-life challenges.

Grade Level: 10, 11, 12  Status: Elective
Requisite: Concurrent enrollment in college preparatory mathematics class

HONORS COMPUTER SCIENCE AND SOFTWARE ENGINEERING 171081/171082
Open doors in any career with computer science! In CSE, students create apps for mobile devices, automate tasks in a variety of languages, and find patterns in data. Students collaborate to create and present solutions that can improve people’s lives, and weigh the ethical and societal issues of how computing and connectivity are changing the world. This course aligns with the AP Computer Science Principles course.

Grade Level: 09, 10, 11, 12  Status: Elective
Prerequisite: Grade of A or B in Algebra 1-2

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.

Grade Level: 12  Status: Elective
Prerequisite: 3 years of PLTW coursework
Requisite: Concurrent enrollment in college preparatory mathematics class

CAD DESIGN PATHWAY

CAD DESIGN/ENGINEERING 1-2 170211/170212
This course will introduce the student to basic drafting skills, technology, and introductory applications of graphic communications: the development of visualization skills, sketching, and the use of software programs used in computer-aided drafting (CAD).

Grade Level: 9, 10, 11, 12  Status: Elective
Prerequisite: Algebra 1-2

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.

Grade Level: 10, 11, 12  Status: Elective
Prerequisite: Grade of A, B, or C in CAD/Design Engineering 1-2. Geometry 1-2 recommended.

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.

Grade Level: 11, 12  Status: Elective
Prerequisite: Grade of A, B, or C in CAD/Design Engineering 3-4. Geometry 1-2 recommended.

HONORS CAD/DESIGN ENGINEERING 7-8 170261/170262
This course provides students the opportunity to further refine their skills in either architectural or machine tool drafting using either board drafting or CAD. Students will produce a project that may include using: 3-D design, animation, board drafting, or CAD.

Grade Level: 12  Status: Elective
Prerequisite: CAD/Design Engineering 5-6. Algebra 3-4 and Geometry 1-2 recommended.
INTRO TO ROBOTICS 1-2 (After School Only) 172141/172142
HONORS INTRO TO ROBOTICS 1-2 (After School Only) 171231/172132
Students will design and build a robot to participate in area robotic competitions. Major units of study will focus on the engineering design process, building and designing a controllable base, designing and building a manipulator and programming of the mechanical system using logic based control and simple sensors.

Grade Level: 9, 10, 11, 12  Status: Elective (9th hour)

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.

Grade Level: 10, 11, 12  Status: Elective
Prerequisite: Intro to Robotics 1-2
National studies have shown that students in career academies are more likely to graduate with the skills and academic requirements to pursue college or career opportunities. A career academy is a small, safe, and supportive learning environment that is contained within a larger high school. An academy has a career and college theme, preparing students for both post-secondary schooling and work.

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<tr>
<td><strong>10</strong> Foundation Course Required</td>
<td><strong>NCOT Honors Geometry 1-2</strong></td>
<td><strong>NCOT English 3-4</strong></td>
</tr>
<tr>
<td>Principles of Engineering</td>
<td>• Minimum Requirement</td>
<td>OR <strong>NCOT Honors English 3-4</strong></td>
</tr>
<tr>
<td>• 171011/171012</td>
<td>• Prerequisite: Honors Algebra 1-2, Teacher Recommendation</td>
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<td><strong>Specialization Courses</strong> Elective</td>
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<td><strong>NCOT English 5-6</strong></td>
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<tr>
<td><strong>11</strong> Specialization Courses Elective Must take at least one to maintain membership in Engineering Academy</td>
<td><strong>Civil Engineering &amp; Architecture</strong></td>
<td><strong>NCOT English 7-8</strong></td>
</tr>
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<td>Civil Engineering &amp; Architecture</td>
<td>• Minimum Requirement</td>
<td>OR <strong>NCOT AP Literature &amp; Composition</strong></td>
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<tr>
<td><strong>Capstone Course</strong> Required</td>
<td><strong>Engineering Design &amp; Development</strong></td>
<td><strong>Technical Communication</strong></td>
</tr>
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<td>Engineering Design &amp; Development</td>
<td>• Minimum Requirement</td>
<td>• Elective</td>
</tr>
<tr>
<td>• 172001/172012</td>
<td>• Prerequisite: 2 years of Engineering coursework</td>
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<tr>
<td><strong>12</strong> Specialization Courses Elective</td>
<td><strong>Civil Engineering &amp; Architecture</strong></td>
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TECH EXPLORATION 1-2 170181/170182
This course includes activates and practical experiences in the use of tools, materials, power equipment, drafting, and computer aided design. Applications of designing, constructing, and participating in activities will enable students to select advanced technology courses.

Grade Level: 9  Status: Elective

PRECISION MACHINE TECHNOLOGY 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.

Grade Level: 10, 11, 12  Status: Elective

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.

Grade Level: 11, 12  Status: Elective
Prerequisite: A, B, or C in Machine Tool 1-2

CNC MANUFACTURING 1-2
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.

Grade Level: 12  Status: Elective
Prerequisite: Successful Completion of MCC Credit in Machine Tool 3-4

CAD DESIGN/ENGINEERING 1-2 170211/170212
This course will introduce the student to basic drafting skills, technology, and introductory applications of graphic communications: the development of visualization skills, sketching, and the use of software programs used in computer-aided drafting (CAD).

Grade Level: 9, 10, 11, 12  Status: Elective
Prerequisite: Algebra 1-2
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 survival skills in the target language. Students become aware of the personal and economic opportunities that knowing a second language will bring them and how that knowledge will enable them to function better both in the United States and globally. They also begin to develop an awareness and 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.

Grade Level: 9, 10, 11, 12  Status: Elective
Prerequisite: Successful completion of English in middle school or high school

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. During this time, students continue to work extensively with interpretive, presentational, and interpersonal communication skills while also delving more extensively into language structure, reading for information and general composition. Students continue to develop an awareness and 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.

Grade Level: 9, 10, 11, 12  Status: Elective
Prerequisite: Grade of A, B, or C in language 1-2 course

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, designated as Honors classes, emphasizes using the target language, authentic materials, and technology throughout instruction. Students are required to use the 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. Students are expected to write coherent paragraphs, short stories, and outlines. Cultural projects are to be carried out in the target language. Students continue to develop an awareness and 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.

Grade Level: 10, 11, 12  Status: Elective
Prerequisite: Grade of A, B, or C in language 1-2 course

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 more 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, and literature. The study of cultures, art, music, poetry, and literature continues to be stressed. Students continue to develop an awareness and 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.

Grade Level: 11, 12  Status: Elective
Prerequisite: Grade of A, B, or C in Honors 5-6 language course

75
HONORS SPANISH 9-10

This course in World Languages at the fifth-year level continues to emphasize and expand upon all interpretive, presentational, and interpersonal communication skills, while also addressing the more complex forms which are stressed during the fifth year of language study. Students receive intensive preparation to use their second language whether that be at the university level or in whatever career they may choose. Literary and authentic works are studied thoroughly. Compositions and higher-level thinking and applications continue to be emphasized. The continued requirements of formal reports and discussion further refine the student’s ability to understand and speak the language. Technology is used to open the world of the targeted cultures and civilizations both in the historical and contemporary world.

Grade Level: 11, 12
Status: Elective
Prerequisite: Grade of A, B, or C in Honors 7-8 language course
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.

*Grade Level: 9  Status: Elective*

**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.

*Grade Level: 10  Status: Elective*

**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.

*Grade Level: 11  Status: Elective*

**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.

*Grade Level: 12  Status: Elective*