



North High School

2023-2024 Course Registration Handbook



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General Information

About North High School

North High School is located in North St. Paul, Minnesota, an eastern suburb of St. Paul. North opened its doors in 1905 as the first high school in Independent School District 622. The school is located on 11th Avenue, just north of Highway 36. The North Polars are proud to be members of the Metro East Conference. North High School has an enrollment of over 1700 students in grades 9-12. North operates on a six period, trimester schedule.

Administration

Kevin Wolff, Principal	651-748-6010
Deron Drummond, Assistant Principal	651-748-6012
Laura Kvamme, Assistant Principal	651-748-6011
Keith Reynolds, Assistant Principal	651-748-6168
Jonathan Friedman, Associate Administrator	651-748-6013
Jed Helwig, Activities Director	651-748-6022

School Counselors

Amy Cosgrove (A-E)	651-748-6035
Janice Yamamoto (F-K)	651-748-6037
Andrea Hager (L-O)	651-748-6033
Molly Bye (P-U)	651-748-6034
Ker Moua (V-Z)	651-748-6039

Grading

Students' transcripts show two sets of grade point averages (GPA), class ranks, and percentiles. One set is unweighted and the other is weighted.

Unweighted Grades

The majority of North's classes carry unweighted grades. These grades are calculated on a 4.0 grading system.

The unweighted grades section of the transcript shows the students' GPA, rank, and percentile with all grades bearing equal weight.

A	4.0	C	2.0
A-	3.67	C-	1.67
B+	3.33	D+	1.33
B	3.0	D	1.0
B-	2.67	D-	0.67
C+	2.33	F	0.0

Weighted Grades

Advanced Placement (AP), College In The Schools (CIS), and PSEO (Post Secondary Enrollment Options) courses carry weighted grades.

Instead of the traditional unweighted 4.0 grading scale, courses are graded on a 5.0 scale. For example, an A in an AP, CIS, or PSEO course will carry a weight of 5.0 instead of 4.0.

The weighted section of the transcript shows the students' GPA with AP, CIS, or PSEO courses weighted on a 5.0 scale and the rest of the course weighted on a 4.0 scale.

A	5.0	C	3.0
A-	4.67	C-	2.67
B+	4.33	D+	2.33
B	4.0	D	2.0
B-	3.67	D-	1.67
C+	3.33	F	0.0

Minimum Enrollment

Students must register for 18 courses. Juniors must maintain enrollment in at least five courses in each trimester. Seniors must maintain enrollment in at least 4 courses in each trimester. The other 1-2 periods will consist of early release, late start or school service. Students' schedules will be changed to reflect these courses after meeting with a counselor, confirming students are on track to graduate and have all the appropriate paperwork filled out at the start of every trimester.

Course Cancellation

Students should be aware that there is a possibility that some courses listed in the registration guide may be canceled due to low enrollment or staff shortages. In the instance that a course is canceled, students' alternate course selections will be utilized to complete their schedules.

Priority Enrollment

In some instances, more students register for a course than can be accommodated in one classroom, but there are not enough students registered to add an additional section of that course. In that case, decisions will be made about which students will be admitted into the course. Generally, upperclassmen will have first priority, especially for classes that are required for graduation.

Off-Campus Courses

Students applying for acceptance to off-campus courses, such as PSEO and 916, should register for 18 credits at North. Decisions about acceptance to off campus programs are not made until after North registration is complete. If a student is accepted into an off-campus program, their registration and schedule will be changed accordingly. Once the master schedule has been created, it is always easier to take North courses out of a student's schedule to accommodate off-campus courses than to add courses to a student's schedule if they are not accepted into an off-campus program.

Academic Options

Advancement Placement (AP)

College Board's Advanced Placement (AP) courses are offered as an opportunity for students to engage in rigorous, college-level coursework while in high school and potentially earn college credit. Most colleges and universities in the United States accept AP credits. Students in AP courses take a comprehensive exam in May and can earn college credit from participating colleges if they do well on the exam. There is a fee to take each exam, however that fee may be reduced for students who qualify for free/reduced lunch. AP course grades are weighted according to North's weighted grading system.

The following AP courses are offered at North:

Art	STEM
<ul style="list-style-type: none">•AP Studio Art Drawing•AP Studio Art 2-D Design•AP Studio Art 3-D Design	<ul style="list-style-type: none">•AP Biology•AP Calculus AB•AP Calculus BC•AP Chemistry•AP Environmental Science•AP Physics I•AP Statistics
Social Studies	
<ul style="list-style-type: none">•AP Human Geography•AP Macroeconomics•AP Microeconomics•AP Psychology•AP US Govt and Politics•AP United States History•AP World History	

Post Secondary Enrollment Options (PSEO)

PSEO allows 10th, 11th, and 12th grade students to attend college part- or full-time for both high school credit and college credit. Students must meet the PSEO admission requirements of the college or university that they are interested in. Admission requirements vary by college, as do admission deadlines. Applications are typically available in the spring and can be obtained online at the colleges' and universities' web sites. Students interested in PSEO must also schedule an appointment with their school counselor to discuss scheduling, North PSEO procedures, get their PSEO paperwork signed, and ensure that the PSEO courses they plan to take will meet North's graduation requirements.

622 Online Classes

Students may choose to take courses on a part-time or full-time basis in the 622 Online High School. Students enrolled in online courses achieve the same learning outcomes as a traditional classroom.

Visit www.isd622.org/622onlinehighschoolcourses or scan the QR code below to learn more.

Disclaimer Statement: 622 Online courses are dependent on student interest and registration. The district may choose to remove online course options based upon enrollment for the 2023-24 school year.



Concurrent Enrollment

North High School offers concurrent enrollment courses in conjunction with the University of Minnesota and Century College. Successful completion of these courses, which are taken at North, results in credit being awarded on a college transcript. The following concurrent enrollment courses are offered at North:

- CIS Exploring the Teaching Profession
- CIS Communications
- CIS College Composition
- CIS Intro to Literature
- CIS College Algebra through Models
- CIS French 1003/1004
- CIS Spanish 1003/1004
- College Reading 1000

Articulated Courses

10th, 11th, and 12th grade students enrolled in specific courses may be eligible to earn college credit. If students successfully complete the specified courses and enroll in at least one course at the institution granting the articulation agreement after high school, they will receive credit for the specified courses completed at North High School. The following courses may have articulation agreements:

- Accounting 1
- Intro to Word Processing
- Advanced Word Processing
- Child Development 1, 2 & 3
- Finance and Investing
- Graphic Arts 1
- Intro to Foods
- Pastry and Baking
- Advanced Foods
- Marketing DECA Seminar
- Personal Finance
- Photography 1
- Video 1 & 2
- Web Page Design

Northeast Metro Career and Technical Center (916)

<https://www.916schools.org/careers>

Northeast Metro Career and Technical Center (916) courses, are available to 10th, 11th and 12th grade students. 916 courses are high school courses that are taken at Century College during the first two periods of the day for the entire school year, earning two elective credits each trimester. Students must apply for acceptance into a class in a specific career; applications are available online. Space is limited, so students are encouraged to apply early. Transportation is provided, or students may also provide their own transportation. Courses are offered in the following categories as part of the 916 program:

- Arts, Communications, & Information Systems
- Agriculture, Food, and Natural Resources
- Business Management and Administration
- Exploration & Enrichment
- Engineering, Manufacturing, and Technology
- Health Science Technology
- Human Services

Registration

Online Registration Procedure

1. Log on to www.isd622.org/campusstudent
2. Click on **Campus Student Login**
3. Enter your login information
4. Click on **Course Registration: North High 23-24**
5. Click on **Add Course**
6. Begin to type in the course number or course name, including any zeros.
7. Click **“+” to add course or a request.**
8. Repeat these steps until you have registered for 18 credits. It will show in the corner as 86% complete (18/21). This is a full schedule.
9. If you choose an incorrect course or want to change a course, click **Delete Request.**
10. To request alternate courses (all students are required to request at least 5), follow the above steps, but click on **Add Alternate.**

Timeline for 2023-2024 registration

Thursday, January 5 at 3 p.m.

9th-11th grade online registration window opens

Tuesday, January 10 from 6-7:30 p.m.

9th Grade Parent Information Night
North High School

Wednesdays & Fridays, January 4, 6, 11 & 13

WIN Time elective showcase

Wednesday, January 18

WIN Time counselor help

Friday, January 20 at 3 p.m.

Online registration window closes

Schedule Changes

Students are able to view schedules through the Portal. Any request for a schedule change must be through the online schedule change form and completed before the first day of the trimester. No changes will be made after the deadline. Students are required to check their school email for any updates regarding their schedule. Only in certain situations can a schedule be changed. Counselors will complete approved schedule changes by the end of the first week of the term. Courses dropped after this time may result in academic penalty and/or loss of credit.

Appropriate reasons for a schedule change:

- * Prerequisites that have not been fulfilled
- * Medical need (requires official documentation)
- * Acceptance into an alternate academic program (PSEO, 916, DECA, etc.)
- * Replace an elective to be a TA (on track Juniors and Seniors only)

Not all requests for schedule changes can be honored. Examples of requests NOT honored are:

- * Specific teacher request
- * Desire to have class at a certain time of the day
- * Desire to have a certain lunch schedule
- * Student changed their mind

*AP courses are college-level curriculum and require a full school year commitment. Students self select their participation and should be ready for the rigors of the class. Students will not be allowed to drop an AP course unless criteria for a schedule change is met.

Graduation Requirements

Subject	Credits Needed	Grade	Page Number
Language Arts English 9, English 10, English 11, writing elective, Language Arts electives	12	9, 10, 11, 12	22
Mathematics Intermediate Algebra, Geometry, Algebra 2	9	9, 10, 11	26
Social Studies Social Studies 9, World History, US History, Economics, Political Science	10	9, 10, 11, 12	34
Science Earth and Space Science, Biology, Chemistry or Physics	9	9, 10, 11	31
Health and Physical Education Health 1, Fitness for Life	2	9	20
The Arts/Electives See chart below	2	9, 10, 11, 12	10, 28
Electives	22	9, 10, 11, 12	All departments
Total credits to graduate	66		

The following courses are approved as The Arts credits meeting the graduation requirement.

Art

- Studio Art 1
- Studio Art 2A - Drawing
- Studio Art 2B - Painting
- Studio Art 3
- Ceramics 1
- Ceramics 2
- Ceramics 3
- Sculpture
- Photography 1
- Photography 2
- Video Production 1
- Video Production 2
- Graphic Arts 1
- Graphic Arts 2
- AP Studio Art Drawing A, B & C
- AP Studio Art 2D Design A, B & C
- AP Studio Art 3D Design A, B & C

Music

- Varsity Band
- Concert Band
- Symphonic Band
- Varsity Choir
- Concert Choir
- Concert Chorale
- Northern Lights Show Choir
- Guitar 1
- Guitar 2
- Guitar 3
- Guitar 4
- Rock Band 101
- Modern Music Production

Graduation Planning Guide

Record of credits earned • Total credits required: 66

Language Arts (12 credits)	
Classes	Credit
English 9A	
English 9B	
English 9C	
English 10A	
English 10B	
English 10C	
English 11A	
English 11B	
English 11 C	
Writing Elective	
Elective	
Elective	

Health and Phy Ed (1 Health and 1 PE credit)	
Classes	Credit
Health	
Fitness for Life	

Math (9 credits)	
Classes	Credit
Intermediate Algebra A	
Intermediate Algebra B	
Intermediate Algebra C	
Geometry A	
Geometry B	
Geometry C	
Algebra 2 with Trigonometry A	
Algebra 2 with Trigonometry B	
Algebra 2 with Trigonometry C	

Science (9 credits)	
Classes	Credit
Earth & Space Science A	
Earth & Space Science B	
Earth & Space Science C	
Biology A	
Biology B	
Biology C	
Any Chemistry A or any Physics A	
Any Chemistry B or any Physics B	
Any Chemistry C or any Physics C	

Social Studies (10 credits)	
Classes	Credit
Social Studies 9A	
Social Studies 9B	
World History A	
World History B	
World History C	
US History A	
US History B	
US History C	
Economics	
Political Science	

The Arts (2 credits)	
Classes	Credit

Electives (22 credits)	
Classes	Credit
1.	
2.	
3.	
4.	
5.	
6.	
7.	
8.	
9.	
10.	
11.	
12.	
13.	
14.	
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18.	
19.	
20.	
21.	
22.	

Career Pathways and Planning

Discover your interests • Explore the opportunities • Plan your pathway



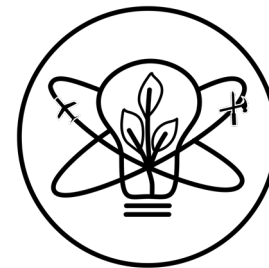
Arts &
Communications



Business



Education,
Health & Human
Services



STEM &
Environment

Visit the North Career Pathways and Planning webpage at www.isd622.org/northcareerpathways or by scanning the QR code.



NCAA

College-bound student-athletes who are interested in playing sports at the college level for an NCAA Division I or II school should pay close attention to NCAA requirements. College-bound student-athletes who do not meet NCAA requirements may be denied scholarship money and/or the right to play at the college level. Each college-bound student-athlete who wishes to participate in NCAA athletics is ultimately responsible for ensuring that he or she is eligible to play.

Core Courses

NCAA Division I and II require college-bound student-athletes to complete 16 core courses which will be used in the calculation of students' core GPA. Student-athletes must complete at least 10 of their core courses prior to the seventh semester of high school.

Students should consult with their school counselor to ensure that they are taking the proper courses.

Informational Meeting

Each fall, the Activities Office holds an NCAA informational meeting that prospective College-Bound Student-Athletes should attend.

Approved Courses

NCAA maintains a list of approved North High School courses that meet the core course requirements. This list can be found at www.ncaa.org/student-athletes/future. Click on core courses, then "Find Your High School's list of NCAA Core Courses". Type in North's 6-digit CEEB/ACT code: **241865**. A list of all current approved North courses will appear. Please note that not all North courses have been approved by NCAA and therefore cannot be counted as core courses when determining NCAA eligibility.

Additional Information

The information on this page was taken from documents found at www.ncaa.org/student-athletes/future. Students should familiarize themselves with the documents on this website, paying particular attention to the Guide for the College-Bound Student-Athlete, the NCAA Initial- Eligibility Brochure, and the Eligibility Quick Reference Sheet. Students should also keep track of their progress toward eligibility by completing the Divisions I and II Worksheets. All of these documents and forms can be found on the NCAA Student-Athlete website. Other sources for information and guidance include students' coaches, school counselors, and the North Activities Director.

Post High School Education

Use this guide as a general planning tool when registering for classes so you are prepared for your post high school education! **Check the admission requirements of every school to which you will apply.** NOTE: Some east or west coast four year schools prefer the SAT to the ACT. The chart below lists the **minimum** requirements according to the latest information available; many colleges require further studies for admission. Again, **research your schools of interest!**

Type of School	Notes	Description	General Admission Requirements <small>* Minimum Requirements listed</small>	College Entrance Exam
Community Colleges, Technical Colleges and Trade Schools Often 2 year schools		Students can work toward a 1-2 year degree/certificate program directly related to an occupation they can enter upon graduation. Others enroll to take general education courses in order to transfer to a 4-year school.	Generally referred to as "open" admissions, which means that students who hold a high school diploma or GED will be admitted.	ACCUPLACER Recommend students take spring of senior year
Minnesota State Colleges and Universities 4 year schools		They have specific admission requirements that go beyond high school graduation requirements. Students' high school rank, GPA, test scores, and school/community involvement are used for admission.	English: 4 years Social: at least 3 years Science: at least 3 years Math: at least 3 years World Language: at least 2 years Fine Arts: at least 1 year	ACT Recommend students take spring of junior year
University of Minnesota 4 year school		They have specific admission requirements that go beyond high school graduation requirements. Students' high school rank, GPA, test scores, and school/community involvement are used for admission.	English: 4 years Social: at least 3 years Science: at least 3 years Math: 4 years World Language: at least 2 years Fine Arts: at least 1 year	ACT Recommend students take spring of junior year
University of Wisconsin 4 year school		They have specific admission requirements that go beyond high school graduation requirements. Students' high school rank, GPA, test scores, and school/community involvement are used for admission.	English: 4 years Social: at least 3 years Science: at least 3 years Math: 3-4 years World Language: at least 2 years (not required by all branches) Fine Arts: at least 1 year	ACT Recommend students take spring of junior year
Private Colleges and Universities 4 year schools		There are specific admission requirements that go beyond high school graduation requirements. Students' high school rank, GPA, test scores, essay, recommendations and school/community involvement are used for admission.	English: 4 years Social: at least 3 years Science: at least 3 years Math: 3-4 years World Language: at least 2 years Fine Arts: at least 1 year	ACT or SAT Recommend students take spring of junior year

AFJROTC 2 A & B (Science of Flight)

Course code: 11002/11003

2 trimesters, 2 credits

Grades: 9-12

This is a two trimester course designed to acquaint the student with the development of flight throughout the centuries. It starts with ancient civilizations, then progresses through time to the modern day. The emphasis is on civilian and military contributions to aviation. Leadership I provides the basis for progression through the rest of AFJROTC while instilling elements of leadership, basic drill, and good citizenship. Cadets will also participate in physical fitness weekly as part of our health and wellness commitment. Cadets will wear the Air Force uniform once a week. This is not a Military recruitment course.



AFJROTC 4 A, B & C

Course code: 11006/11007/11008

3 trimesters, 3 credits

Grade: 12

Prerequisite: Completed at least one course set of AFJROTC

Cadets manage the entire corps during the year. This hands on experience allows the cadets the opportunity to put the theories of previous leadership courses to practice. The planning, coordinating, directing and decision making will be completed by the cadets. Students will also learn about financial planning, resume writing, completing college and employment applications, interviewing and how to succeed post high school.

Art

The purpose of art courses is to increase awareness of visual communication and to provide students the opportunity to explore various art media while learning skills and techniques.

Level 1	Level 2	Level 3	Level 4
•Ceramics 1	•Ceramics 2	•Ceramics 3	•Independent Study Ceramics •AP Studio Art 3D Design
•Sculpture			
•Photography 1	•Photography 2		•Independent Study Photography •AP Studio Art 2D Design
•Studio Art 1	•Studio Art 2A Drawing •Studio Art 2B Painting	•Studio Art 3	•Independent Study Studio Art •AP Studio Art 2D Design •AP Studio Art Drawing
•Graphic Arts 1	•Graphic Arts 2		•Independent Study Graphic Arts •AP Studio Art 2D Design
•Video Production 1	•Video Production 2		

Studio Art 1

Course code: 11100

1 trimester, 1 credit

Grades: 9-12

This course is an introduction to high school-level art classes. Students will learn the concepts and skills needed for other art classes through a variety of art forms. Students will gain experience with art materials and the elements and principles of art, as well as skills for evaluating their work.

Studio Art 2A Drawing

Course code: 11102

1 trimester, 1 credit

Grades: 9-12

Prerequisite: Studio Art 1

Students will develop and expand their drawing skills introduced in Studio Art I. Students will increase their drawing skills through various studies and projects such as still-life drawing, portrait, and perspective drawing, as well as more interpretive forms of drawing. Students will work with a variety of materials.

Studio Art 2B Painting

Course code: 11103

1 trimester, 1 credit

Grades: 10-12

Prerequisite: Studio Art 1

Students in this course will learn how to paint with acrylic paint. Composition and color theory will be emphasized. Students will explore different styles of painting, as well as their own personal expression of themes and ideas discussed in class.

Studio Art 3

Course code: 11104

1 trimester, 1 credit

Grades: 10-12

Prerequisites: Studio Art 2A or 2B

This course is for students who wish to work at an advanced level in both drawing & painting. Emphasis will be placed on improving technical skills such as observational drawing, shading, use of color and painting techniques. Students will have the opportunity to make more creative decisions in their projects. There will be a variety of drawing and painting projects, and students will be allowed to choose whether to draw or paint some projects.

Independent Study Studio Arts

Course code: 17000

1 trimester, 1 credit

Grades: 10-12

Prerequisites: Level 2 or 3 art class **AND** Independent Study form

Self-motivated art students who wish to develop an individual approach in drawing and painting may enroll with instructor approval. Course products are expected to be of competition quality. Help is given with developing portfolios needed to enter art school and producing art for scholarships. The Independent Study form is available online or in the Guidance Office and must be attached to the registration forms.

Ceramics 1

Course code: 11112

1 trimester, 1 credit

Grades: 9-12

Students plan, design, create, glaze, and fire clay objects. Activities include hand-building methods and an introduction to the potter's wheel. Products are lead-free and oven/dishwasher safe.

Ceramics 2

Course code: 11113

1 trimester, 1 credit

Grades: 10-12

Prerequisite: Ceramics 1

Expands on the learning of Ceramics 1, introducing students to new construction and decorating ideas. Special focus is placed on the potter's wheel, surface alteration, the production of creative works and mastery of advanced skills.

Ceramics 3

Course code: 11114

1 trimester, 1 credit

Grades: 11-12

Prerequisite: Ceramics 2

Students will expand on what they have learned in Ceramics 2. Students will continue to learn new construction and glazing techniques that build on skills already learned. Students will use a variety of hand-building and wheel-throwing techniques with an emphasis on creating projects using the potter's wheel.

Independent Study Ceramics

Course code: 17001

1 trimester, 1 credit

Grades: 11-12

Prerequisites: Ceramics 2 **AND** Independent Study form
Self-motivated art students who wish to develop an individual approach in Ceramics may enroll with instructor approval. Course products are expected to be of competition quality. Help is given with developing portfolios needed to enter art school and producing art for scholarships. The Independent Study form is available online or in the Guidance Office and must be attached to the registration forms.

Sculpture

Course code: 11119

1 trimester, 1 credit

Grades: 9-12

Students will explore three dimensional art. The emphasis in this course is placed on creativity and using the elements of art and principles of design to develop various three-dimensional projects. Students will be using different skills to create each project and will develop creative problem solving.

Photography 1 +

Course code: 11128

1 trimester, 1 credit

Grades: 10-12

In Photography 1, students will get a great introduction to the fundamentals of photography. Students will use Photoshop for editing pictures and image manipulation. An emphasis will be placed on understanding the basic functions of digital cameras, lighting, and composition. Along with the technical aspect of photography, this class will also explore the artistic dimensions of photography.

Photography 2

Course code: 11129

1 trimester, 1 credit

Grades: 10-12

Prerequisite: Photography 1

Photography II expands on basic learning to explore the means of transmitting powerful visual information. Students will be introduced to some of the careers available in the field of photography (photojournalism, commercial photography, and fine art photography) and will gain simulated experiences through the projects assigned in this class to see how art informs photography in any practice. Students will use both digital and traditional methods in photography for their projects and will gain experience with operating professional studio lighting equipment.

* College Credit Opportunity: Please consult your college of choice to see what credits can be earned. See page 3 for more information.

+ College Credit Opportunity: This course may earn an articulated credit. See your counselor for eligibility.

Art

Independent Study Photography

Course code: 17002

1 trimester, 1 credit

Grades: 10-12

Prerequisites: Photography 2 **AND** Independent Study form

Self-motivated art students who wish to develop an individual approach in drawing and painting may enroll with instructor approval. Course products are expected to be of competition quality. Help is given with developing portfolios needed to enter art school and producing art for scholarships. The form is available online or in the Guidance Office and must be attached to the registration forms.

Video Production 1 +

Course code: 11134

1 trimester, 1 credit

Grades: 10-12

Students will learn skills in filmmaking, non-linear digital editing, audio recording, and final video production. Videos will include music, sound effects, titles, special effects, and slow motion. The history of film and works by various filmmakers will also be studied. Class work may include special school projects, such as the school dance policy, dangers of drunken driving, etc. Short films produced will demonstrate student creativity and editing skills. A personal set of headphones and a jump drive are strongly recommended. Students will use Adobe Premiere, After Effects and Flash.

Video Production 2 +

Course code: 11135

1 trimester, 1 credit

Grades: 10-12

Prerequisite: Video Production 1

Students will work in a production-oriented environment using industry standard video production software including Adobe Premiere Pro, Adobe After Effects, Adobe Flash, and Adobe Audition. Students will work on larger video projects and create special effects and animations. Emphasis will be placed on using video to create an aesthetic experience.

Graphic Arts 1 +

Course code: 11139

1 trimester, 1 credit

Grades: 9-12

Students will use Adobe Photoshop in a traditional visual fine arts framework. There will also be an emphasis on the elements of art, principles of design, composition, and traditional graphic design theory. Students will create digital portfolios and presentations to simulate real-world experiences in the field of graphic design.

Graphic Arts 2

Course code: 11140

1 trimester, 1 credit

Grades: 10-12

Prerequisite: Graphic Arts 1

In a production-oriented environment, students will use industry-relevant software, such as Adobe Photoshop, Adobe Illustrator, and InDesign. Along with in-class assignments provided by the instructor, students will work on selected individual projects to explore and develop their own aesthetic style. An emphasis will be placed on understanding the foundations of good design, including composition, color theory, typography, audience, and intent.

Independent Study Graphic Arts

Course code: 17003

1 trimester, 1 credit

Grades: 10-12

Prerequisites: Photography 2 **AND** Independent Study (IS) form

Self-motivated art students who wish to develop an individual approach in drawing and painting may enroll with instructor approval. Course products are expected to be of competition quality. Help is given with developing portfolios needed to enter art school and producing art for scholarships. The Independent Study form is available online or in the Guidance Office and must be attached to the registration forms.

AP Studio Art Drawing *

Course code: 11105/11106/11107

3 trimesters, 3 credits

Grades: 11-12

Prerequisite: Studio Art 2 Drawing

This course will follow the requirements established by the College Board. Students will prepare a portfolio in the drawing category, which includes all drawing, painting, mixed media, and printmaking. The course will run during regularly scheduled classes, although students are also expected to work on their projects outside of class. During the year, students will be preparing their portfolios for submission to the College Board for evaluation.

* College Credit Opportunity: Please consult your college of choice to see what credits can be earned. See page 3 for more information.

+ College Credit Opportunity: This course may earn an articulated credit. See your counselor for eligibility.

AP Studio Art 2D Design *

Course code: 11142/11143/11144

3 trimesters, 3 credits

Grades: 11-12

Prerequisite: Photo 2 **OR** Graphic Arts 2

This course will follow the requirements established by the College Board. Students will prepare a portfolio in the 2D Design category, which includes all photography and graphic design. The course will run during regularly scheduled classes each trimester of the year. Additionally, students are also expected to work on their projects outside of class. Students will be preparing their portfolios for submission to the College Board for evaluation in the spring.

AP Studio Art 3D Design *

Course code: 11145/11146/11147

3 trimesters, 3 credits

Grades: 11-12

Prerequisites: Ceramics 2

This course will follow the requirements established by the College Board. Students will prepare a portfolio in the 3D design category, which includes ceramics, jewelry, sculpture, and architecture. The course will run during regularly scheduled classes each trimester of the year. Additionally, students are also expected to work on their projects outside of class. Students will be preparing their portfolios for submission to the College Board for evaluation in the spring.

* College Credit Opportunity: Please consult your college of choice to see what credits can be earned. See page 3 for more information.

+ College Credit Opportunity: This course may earn an articulated credit. See your counselor for eligibility.

AVID (*Advancement Via Individual Determination*)

The AVID program prepares students for college and future success in a global society. The AVID elective class helps students build skills they need to succeed in school and beyond. Students enroll in at least one rigorous class, such as accelerated, Advanced Placement, or College in the Schools. Each day in the elective class, students learn skills such as:

- How to organize schoolwork and study
- How to think critically and ask probing questions
- How to get academic help from peers and college tutors
- How to work effectively with teachers

AVID students participate in additional activities such as college visits and community service projects to enrich their learning, motivate them, and make college seem possible. They gain an improved self-image and become academic leaders who are prepared for college.

Current AVID students

AVID students who finish the year in good standing are automatically able to enroll in the AVID elective class next year.

Interested in applying for AVID elective classes?

Students seeking to apply must participate in an application process to determine eligibility.

Characteristics of a typical AVID student:

- GPA 2.0-3.5
- Determined to go to college
- Interested in taking advanced or accelerated courses
- Often first in family to attend college

Important notes:

- Applications are due June 1, 2023
- If transferring, student must be in good standing
- Some grades have limited enrollment
- Enrollment is not guaranteed

AVID 9 A, B & C

Course codes: 12210/12211/12212

3 trimesters, 3 credits

Grade: 9

Prerequisite: Enrolled in AVID in 8th grade **OR** application - due 6/1/23

AVID 10 A, B & C

Course codes: 12213/12214/12215

3 trimesters, 3 credits

Grade: 9

Prerequisite: Enrolled in AVID in 9th grade **OR** application - due 6/1/23

AVID 11 A, B & C

Course codes: 12216/12217/12218

3 trimesters, 3 credits

Grade: 11

Prerequisite: Enrolled in AVID in 10th grade **OR** application - due 6/1/23

AVID 12 A, B & C

Course codes: 12219/12220/12221

3 trimesters, 3 credits

Grade: 12

Prerequisite: Enrolled in AVID in 11th grade

For more information about the North AVID program, contact:

Sara Martinez, AVID Coordinator

smartinez@isd622.org

651-748-6126

Business

Business and Marketing			
Business Management and Administration	Accounting and Finance	Marketing	Information Technology
<ul style="list-style-type: none"> • Careers • Intro to Business 			
<ul style="list-style-type: none"> • Intro to Word Processing • Advanced Word Processing • Business Law • Careers 	<ul style="list-style-type: none"> • Accounting 1 • Accounting 2 • Finance and Investing • Personal Finance 	<ul style="list-style-type: none"> • Advertising and Promotions • Sports and Entertainment Management • Entrepreneurship • Principles of Marketing 	<ul style="list-style-type: none"> • Computer Applications • Web Page Design • Video Game Design
Marketing/DECA Program*			
<ul style="list-style-type: none"> • Seminar - DECA • Internship - DECA 			

Introduction to Word Processing +

Course code: 11200

1 trimester, 1 credit

Grades: 9-12

Students will review keyboarding by touch techniques in order to build keyboarding skill and speed. Students will also learn features and tools of the word processor in order to create professionally formatted and proofread documents such as tables, academic reports, letters, and memos.

Advanced Word Processing +

Course code: 11201

1 trimester, 1 credit

Grades: 9-12

Prerequisite: Intro to Word Processing

This course is designed to improve keyboarding skills, increase productivity, and further develop word processing skills. Students learn advanced word processing skills in the formatting of commonly used business documents including letters, tables, reports, flyers, itineraries, newsletters, mail-merge and agendas. Advanced graphics tools will also be learned.

Computer Applications +

Course code: 11206

1 trimester, 1 credit

Grades: 9-12

Prepares students to use the computer as a personal tool through the use of word processing, spreadsheets, charting, and electronic presentations.

Video Game Design

Course code: 11208

1 trimester, 1 credit

Grades: 10-12

Prerequisite: Intermediate Algebra

Students will design, program, write and market their own 3D video game through a simulated internship with a video game company.

Web Page Design +

Course code: 11209

1 trimester, 1 credit

Grades: 9-12

Presents the basic principles of web page design and introduces students to web page creation through the use of HTML and CSS. Students will learn what is involved in creating their own web site.

Accounting 1 +

Course code: 11213

1 trimester, 1 credit

Grades: 10-12

Students learn a complete accounting cycle for a service business organized as a proprietorship. Accounting knowledge is an essential part of business; students will learn journalizing, posting, cash management, and stakeholder reporting.

* College Credit Opportunity: Please consult your college of choice to see what credits can be earned. See page 3 for more information.

+ College Credit Opportunity: This course may earn an articulated credit. See your counselor for eligibility.

Business

Accounting 2

Course code: 11215

1 trimester, 1 credit

Grades: 10-12

Prerequisites: Accounting 1

Students develop an understanding of how financial data is used to make business decisions as they study advanced units in payroll, cash receipts and payments, depreciation, and fixed assets. Students will learn these concepts while completing an accounting cycle for a merchandising business.

Advertising and Promotions

Course code: 11220

1 trimester, 1 credit

Grades: 9-12

Students develop an understanding of advertising and promotion, how it is used in business and its effect on students as consumers. Students will develop the skills and learn the strategies needed to create a variety of advertising messages in the media. Students will have the opportunity to develop a promotional plan for a business in our local area.

Students taking the Advertising and Promotion and/or Principles of Marketing (formerly Sales and Marketing) classes may have the opportunity to qualify for the DECA program.

Business Law

Course code: 11221

1 trimester, 1 credit

Grades: 9-12

Students develop an understanding of protection and liability in business and personal matters. Topics include the historical origins of modern law, contract law, employment law and property law. Students learn courtroom trial procedures, and a mock trial will be conducted at the end of the course.

Sports and Entertainment Management

Course code: 11222

1 trimester, 1 credit

Grades: 9-12

Students will learn about the issues and challenges for managing within this fast-paced and more complex business environment. Instruction includes a highly visual computer simulation of a sports and entertainment venue lets students handle promotion, ticket pricing, stadium operations and staffing, sponsors, concessions, concert booking, promotion and more.

Entrepreneurship

Course code: 11223

1 trimester, 1 credit

Grades: 9-12

Students will explore innovative thinking and the creative process in order to develop a plan for starting and owning a business. Course topics include innovation and creativity, opportunity recognition, business planning, market research and marketing.

Finance and Investing +

Course code: 11224

1 trimester, 1 credit

Grades: 11-12

Students will learn financial independence and income growth strategies that can help them make good financial management and investment decisions. Virtual stock portfolios are established and managed throughout the course. Topics include: Saving, Credit & Debt, Investing, and more.

Introduction to Business

Course code: 11226

1 trimester, 1 credit

Grades: 9-12

This course will introduce students to the basics of marketing, management, business economics, finance, human resources, and the international, legal and entrepreneurial aspects of business. Topics are introduced through current events, news, vocabulary, reading assignments, case studies, and group activities.

Principles of Marketing

Course code: 11227

1 trimester, 1 credit

Grades: 9-12

Students will experience the spectrum of marketing with product research, pricing techniques, promotion ideas and distribution. Students will create marketing plans for a variety of products and services. This is an introductory-level course that focuses on the 4 Ps of marketing and how those decisions shape the way businesses operate.

Students taking the Advertising and Promotion and/or Principles of Marketing classes may have the opportunity to qualify for the DECA program.

* College Credit Opportunity: Please consult your college of choice to see what credits can be earned. See page 3 for more information.

+ College Credit Opportunity: This course may earn an articulated credit. See your counselor for eligibility.

Careers

Course code: 12201

1 trimester, 1 credit

Grades: 9-12

Students determine personal interests, skills and work values, then explore occupations that may be of interest. Students also explore different post-secondary education and training options and how to fund those choices. Students will also recognize resources available to assist with future planning, develop skills in making decisions and choosing alternatives when planning and pursuing education and career goals.

MARKETING/DECA PROGRAM

This is a college level course studying advanced topics in marketing and management. Experience an advanced course in career exploration and skill development in the areas of entrepreneurship, marketing, finance, hospitality and management. Participation includes activities in the local chapter of DECA. Students will also be involved in operating the school store to gain real world experience.

NOTE: Marketing classes meet for a full year. Approved students must register for all 3.

Seminar - DECA A, B & C +

Course codes: 11238/11239/11240

3 trimesters, 3 credits

Grades: 11-12

Prerequisites: Any approved business course **AND** instructor approval **AND** application for enrollment (available in room S276). The deadline for returning the application to the Business Department is **1/20/23**.

Internship - DECA A, B & C

Course codes: 11241/11242/11243

1-3 trimesters, 1-6 credits

Grades: 11-12

Prerequisite: Co-registered in the Seminar DECA course

The DECA Internship provides students the opportunity to receive internship training in the areas of entrepreneurship, marketing, finance, hospitality, and management by partnering with a local business, or managing the school store. Students may be eligible to leave school early to work at their approved internship site. Students may register for up to three trimesters and up to 2 class periods per trimester.

Consumer Skills (Personal Finance) +

Course code: 11431

1 trimester, 1 credit

Grades: 10-12

Students learn the life skills of decision making and managing personal finances. Topics covered include money management, borrowing, earning power, investing, financial services and insurance.

* College Credit Opportunity: Please consult your college of choice to see what credits can be earned. See page 3 for more information.

+ College Credit Opportunity: This course may earn an articulated credit. See your counselor for eligibility.

Family and Consumer Science

Level 1	Level 2	Level 3
•Child Development 1: Prebirth-Toddler	•Child Development 2: Preschool	•Child Development 3: School Age
•Family Life & Relationships		
•Intro to Foods	•Advanced Foods •Pastry and Baking	
•Clothing and Fashion	•Advanced Clothing	
•Interior Design		
•CIS Exploring the Teaching Profession A, B & C		

Intro to Foods +

Course code: 11400

1 trimester, 1 credit

Grades: 9-12

This course is designed to allow students the opportunity to work hands on. Through lab experiences students will gain knowledge in basic cooking techniques, food preparation and how to safely prepare food for themselves and others. This will serve as a foundation for students as they work to develop skills in the culinary world.

Advanced Foods +

Course code: 11401

1 trimester, 1 credit

Grades: 9-12

Prerequisite: Intro to Foods

This course is a continuation of Intro to Foods and will focus on new technical skills of food preparation. Students will make foods in the areas of: soups/sauces, meats/poultry, vegetarian, starches (potatoes, grains, and legumes), salads & dressings, and herbs/ spices.

Pastry and Baking +

Course code: 11409

1 trimester, 1 credit

Grades: 9-12

Prerequisite: Intro to Foods

This course is a continuation of Intro to Foods and will focus on the technical skills of pastry and baking. Students will make foods in the areas of yeast breads, pies and pastries, fillings, cake icings, and frostings.

Child Development 1: Prebirth-Toddler +

Course code: 11412

1 trimester, 1 credit

Grades: 9-12

This course provides an opportunity for students to learn about children from pre-birth through toddlerhood. Course topics will include pregnancy, prenatal care and development, labor and delivery, infant development and care, toddler development and care, guidance and age appropriate activities. This course is recommended for students interested in the following careers: child care providers, educators/teachers, psychologists, counselors/therapists, social workers and nurses/doctors.

Child Development 2: Preschool +

Course code: 11413

1 trimester, 1 credit

Grades: 10-12

Prerequisites: Parenting Issues **OR** Child Development 1: Prebirth-Toddler

This course provides an opportunity for students to learn about the development and care of preschool age children. Within a hands-on learning environment, students will plan, prepare, and teach lessons to preschool children within the classroom. This course is recommended for students interested in the following careers: child care providers, educators/teachers, psychologists, counselors/therapists, social workers and nurses/doctors.

* College Credit Opportunity: Please consult your college of choice to see what credits can be earned. See page 3 for more information.

+ College Credit Opportunity: This course may earn an articulated credit. See your counselor for eligibility.

Family and Consumer Science

Child Development 3: School Age +

Course code: 11414

1 trimester, 1 credit

Grades: 11-12

Prerequisite: Child Development 2: Preschool

This course provides an opportunity for students to learn about the development and care of school age children. In this class, students will be required to go off-site to observe children in an elementary school setting. Students will be able to apply child development theories to real life situations. This course is recommended for students interested in the following careers: child care providers, educators/teachers, psychologists, counselors/ therapists, social workers and nurses/doctors.

Family Life and Relationships

Course code: 11415

1 trimester, 1 credit

Grades: 10-12

Family Life will allow students to explore and assess their own definition and self, identify their values, and learn strategies to help set and achieve goals. Students will learn how to communicate effectively and assertively with others. Additionally students will explore theory and philosophy around concepts that impact the family. Throughout the course students will analyze a wide variety of issues that impact the success of families.

Clothing and Fashion

Course code: 11419

1 trimester, 1 credit

Grades: 9-12

Students will learn about fashion trends through exploration of design elements. Each student will learn to choose patterns and fabrics that are best for the project they are working on. Through the construction of a basic garment, students will use skills and knowledge of sewing techniques to show what they have learned.

Advanced Clothing

Course code: 11420

1 trimester, 1 credit

Grades: 10-12

Prerequisite: Clothing and Fashion

Students learn to make clothes by using the concepts of color, line, and design. Students are expected to successfully complete a number of projects.

Interior Design

Course code: 11425

1 trimester, 1 credit

Grades: 9-12

Students will learn how to decorate and design a home. Students will explore the elements and principles of design, house and design styles, design materials, floor plans and arranging furniture. This course is recommended for students interested in designing their own homes and interested in the following careers: Interior designers, decorators, architects, landscape designers, and other design or art related fields.

CIS Exploring the Teaching Profession A, B & C

Course codes: 11445/11446/11447

3 trimesters, 3 credits

Grades: 11-12

Prerequisites: 3.0 GPA or higher **OR** class rank of 50% or higher **OR** recommendation from a teacher **OR** interest working with kids, demonstrated through an interview with the CIS teacher.

This course is an introduction to K-12 teaching as a profession. Students will cover topics such as the culture of teaching, roles of teachers, student learning, multicultural/ diverse students/contexts, socio-cultural and socio-political influences of education, diversity in schools and strategies for increasing cultural competence. Students will do a total of 60 hours of service-learning (mainly during school hours) in an elementary, middle and/or high school as part of the course.

* College Credit Opportunity: Please consult your college of choice to see what credits can be earned. See page 3 for more information.

+ College Credit Opportunity: This course may earn an articulated credit. See your counselor for eligibility.

Health and Physical Education

Health Education Class		
ALL STUDENTS MUST TAKE HEALTH		CREDITS
Grade 9	•Health	1
Physical Education Class		
ALL STUDENTS MUST TAKE FITNESS FOR LIFE		CREDITS
Grade 9	•Fitness for Life	1

Health

Course code: 11500

1 trimester, 1 credit

Grade: 9

This course is designed to assist students in the decision-making process regarding the following topics: life management skills, stress, problem-solving, communication, CPR, tobacco, alcohol, chemicals, cancer, sexually transmitted diseases and mental and social implications of human sexuality. ***Passing this course fulfills the Health graduation requirement.***

Fitness for Life

Course code: 11511

1 trimester, 1 credit

Grade: 9

Students will focus on the 5 components of fitness, which are the set of attributes associated with lifelong fitness. Students will assess their personal fitness levels and work on increasing it through fitness activities, strength training and team/dual games. This course will prepare students for both lifelong fitness and success in additional elective high school physical education courses. ***Passing this course fulfills the PE graduation requirement.***

Unified Physical Education

Course code: 11513

1 trimester, 1 credit

Grades: 10-12

Unified Physical Education emphasizes knowledge and skills needed for a lifetime of physical fitness. Content may include related topics such as nutrition, stress management and consumer issues. The focus of this course is physical fitness. It provides a unique opportunity for students with and without disabilities to come together through ongoing educational and physical activities. The Unified Physical Education course is structured around the national physical education standards and grade-level outcomes, which include gaining the knowledge and skills necessary to maintain a health-enhancing level of fitness. Additionally, the class supports the development of leadership skills for ALL students, and the empowerment of ALL students to foster an inclusive class and school-wide environment. Students may develop and implement a personal fitness plan.

Lifetime Activities 1

Course code: 11514

1 trimester, 1 credit

Grades: 9-12

Prerequisite: Fitness For Life

Are you a student that prefers to play games versus aerobics and/or weight training as a way to improve your personal fitness? This co-educational course is designed to help students improve personal fitness through playing games.

Beginning Strength Training for Personal Fitness

Course code: 11518

1 trimester, 1 credit

Grades: 9-12

Strength training is introduced as a way to improve personal fitness. Emphasis is on basic techniques and proper safety procedures. ***It does NOT qualify as the required Phy Ed 9 course.***

Health and Physical Education

Advanced Strength Training for Athletes

Course code: Fall 11526/Winter 11527/Spring 11528

1 trimester, 1 credit

Grades: 10-12

Prerequisite: Beginning Strength Training - either version

Learn intermediate lifts in addition to sports specific agility and plyometrics workouts designed to increase athletic success. ***This class may be taken three times for credit in one year, then be repeated in future years.***

Fall Team Sports

Course code: 11537

1 trimester, 1 credit

Grades: 10-12

Prerequisite: Fitness for Life

Students develop good sportsmanship and leadership through competitive games. Activities may include football, soccer, ultimate Frisbee, softball, lacrosse, volleyball, and basketball.

Racquet Sports

Course code: 11542

1 trimester, 1 credit

Grades: 10-12

Prerequisite: Fitness for Life

The sports of tennis, badminton, pickleball and paddle tennis form the base of this class. Students will be introduced to intermediate and advanced skills and strategies of singles and doubles play.

Spring Team Sports

Course code: 11544

1 trimester, 1 credit

Grades: 10-12

Prerequisite: Fitness for Life

Good sportsmanship and leadership are emphasized. Activities may include football, soccer, softball, lacrosse, volleyball, team handball, and arena games.

Winter Team Sports

Course code: 11545

1 trimester, 1 credit

Grades: 10-12

Prerequisite: Fitness for Life

Students develop good sportsmanship and leadership through competition. Activities may include lacrosse, volleyball, basketball, team handball, arena games, and floor hockey.

Language Arts

All students must complete 12 Language Arts credits		Credits
Grade 9	<ul style="list-style-type: none"> •English 9 A, B & C OR <ul style="list-style-type: none"> •Accelerated English 9 A, B & C 	3
Grade 10	<ul style="list-style-type: none"> •English 10 A, B & C OR <ul style="list-style-type: none"> •Accelerated English 10 A, B & C 	3
Grade 11	<ul style="list-style-type: none"> •English 11 A, B & C •OR <ul style="list-style-type: none"> •Accelerated English 11 A, B & C 	3
Grade 12	1 writing elective and 2 Language Arts electives from the list below	3

Language Arts Writing electives	Language Arts electives	
•Career Writing (Grade 12 only)	•Communication Studies	•Journalism 2
•College Composition (Grade 12 only)	•CIS Communications	•Myth and Legend
•CIS College Composition (Grade 12 only)	•Creative Writing	•College Readiness
•Academic Writing Foundations (Grade 12 only)	•Film Studies	•Science Fiction and Fantasy
•CIS Intro to Literature (Grade 12 only)	•Grammar	•College Reading
	•Journalism 1	

English 9 A, B & C

Course codes: 11600/11601/1602

3 trimesters, 3 credits

Grade: 9

First trimester focuses on building a reading life, critical reading strategies for nonfiction and analyzing character in fiction. Second trimester focuses on genre studies, identifying themes and synthesizing the results of research. Third trimester points toward more advanced literacy classes with research strategies, study of a classic text and Romeo and Juliet. This course prepares students for Advanced English courses.

Accelerated English 9 A, B & C

Course codes: 11603/11604/11605

3 trimesters, 3 credits

Grade: 9

First trimester focuses on building a reading life, critical reading strategies for nonfiction and analyzing character in fiction. Second trimester focuses on genre studies, identifying themes and synthesizing the results of research. Third trimester points toward more advanced literacy classes with research strategies, study of a classic text and Romeo and Juliet. This course prepares students for Advanced English courses.

English 10 A, B & C

Course codes: 11621/11622/11623

3 trimesters, 3 credits

Grade: 10

Prerequisite: English 9

This integrated course focuses on advanced compositional skills and fluency, as well as reading and analyzing fiction and nonfiction. Designed to challenge mature, independent students who possess advanced skills in reading, writing and critical thinking. Rigorous reading and writing assignments prepare students for college. Research skills will be developed.

Accelerated English 10 A, B & C

Course codes: 11624/11625/11626

3 trimesters, 3 credits

Grade: 10

This integrated course focuses on advanced compositional skills and fluency, as well as reading and analyzing fiction and nonfiction. Designed to challenge mature, independent students who possess advanced skills in reading, writing and critical thinking. Rigorous reading and writing assignments prepare students for college. Research skills will be developed.

Language Arts

English 11 A, B & C

Course code: 11707/11708/11709

3 trimesters, 3 credits

Grades: 11-12

Prerequisite: English 10

Students will plan, organize, and compose expository, critical, and analytical writings to address a specific audience and purpose. Students will write major essays throughout the year addressing a variety of topics. Students will also read, analyze, and evaluate selected texts, build extensive content knowledge with close reading and analysis of texts, critical viewing of select films, wide-ranging independent reading, and lively, engaging classroom discussion.

Accelerated English 11 A, B & C

Course codes: 11710/11711/11712

3 trimesters, 3 credits

Grade: 11

This course focuses on the development of advanced skills in reading, analyzing and evaluating varying texts including novels, essays, short stories, biographies, plays and poems. Students will plan, organize, and compose expository, critical, and analytical writings to address a specific audience and purpose. Students will write major essays throughout the year addressing a variety of topics. Students will build extensive content knowledge with close reading and analysis of texts, critical viewing of select media, wide ranging independent reading, and lively, engaging classroom discussion.

Communication Studies

Course code: 11660

1 trimester, 1 credit

Grades: 11-12

Communications is a performance class designed to help students become better speakers and listeners. Activities include both analyzing and practicing non-verbal communication, oral interpretation, and discussion groups. This class focuses on building self-confidence and includes a variety of speaking experiences.

CIS Communications

Course code: 11661

1 trimester, 1 credit

Grades: 11-12

Prerequisite: Class rank in top 30% or admin approval

Students develop an understanding of basic principles of oral communication while improving skills in researching, writing and organizing effective presentations. Because this is a college course, students will have a great deal of independence and responsibility. In past years, the school district has paid for these credits.

Career Writing

Course code: 11672

1 trimester, 1 credit

Grade: 12

This course focuses on developing writing skills for students intending to enter either the workforce or technical/vocational school following graduation. Coursework engages students in technical and career related writing components, while integrating grammar, mechanics and vocabulary to support their skills. ***Career Writing fulfills the writing requirement for graduation.***

College Composition

Course code: 11673

1 trimester, 1 credit

Grade: 12

Prerequisite: English 10 A/B/C

This course helps prepare students for college by requiring them to engage in critical thinking as they read and analyze many effective example pieces and plan and write compositions of their own. The three or four major papers teach students to demonstrate effective description, narration, analysis, and research. ***College Composition course fulfills the writing requirement for graduation.***

CIS College Composition

Course code: 11674

1 trimester/1 credit

Grade: 12

Prerequisite: Class rank in top 20% **OR** Accelerated English 11 **OR** admin approval

CIS College Composition provides writing practice which, combined with reading and discussion, is designed to develop strategies for the process of writing. Observe, analyze, critique and evaluate writing and participate actively by sharing ideas and helping one another as readers and writers. Four major papers required. ***CIS College Comp fulfills the writing requirement for graduation.***

Language Arts

Academic Writing Foundations

Course code: 11675

1 trimester, 1 credit

Grade: 12

The focus of the class is to increase proficiency in conventions, sentence fluency, ideas, organization, diction, and voice, particularly as they apply to academic writing tasks. In addition to a specific writing skill, review, and ample practice, each unit features an essay representative of an academic purpose, which may include a descriptive essay, personal narrative, research and response to literature.

Academic Writing Foundations fulfills the writing requirement for graduation.

CIS Intro to Literature

Course code: 11676

1 trimester, 1 credit

Grade: 12

Prerequisite: Class rank in top 30% **OR** an “A” in Advanced English 11 **OR** admin approval

CIS Intro to Literature offers North High students the opportunity to read seven to eight stimulating works of 20th century fiction. Students will also read contemporary poetry, essays, and drama. A literary response journal and participation in small and large group discussions are course requirements. Students will be expected to read one novel in advance of the start of the class. Your instructor will contact you. **CIS Intro to Literature fulfills the writing requirement for graduation.**

Creative Writing

Course code: 11682

1 trimester, 1 credit

Grades: 11-12

Prerequisite: English 10

Provides the serious student an opportunity to learn and improve valuable writing skills in a variety of daily writing assignments such as description, poetry, short story, and personal essay. Writing is assessed through peer response groups and frequent student teacher conferences.

Film Studies

Course code: 11684

1 trimester, 1 credit

Grades: 11-12

Prerequisite: English 10

What the play was for Shakespeare's audience and the novel was for Dickens' readers, the film is for us; namely, the most vibrant, popular and important form of narrative art. In this class, you will learn how to view movies with a more critical eye, how film has grown as an art form, and how we can use films as vehicles for understanding contemporary society.

Note: No films will be shown in their entirety during class time. Students will be responsible for viewing the film on their own using copies provided by the instructor.

Grammar

Course code: 11685

1 trimester, 1 credit

Grades: 10-12

An in-depth study of the science of the English language. Syntax, inflection, parts of speech, phrases and clauses, types of sentences, punctuation, and a variety of grammar idiosyncrasies will be the focus of this course. Understanding grammar is helpful in raising verbal ACT/SAT scores. Knowledge of grammar provides “language tools” needed to talk about and understand the complex English language.

Journalism 1

Course code: 11688

1 trimester, 1 credit

Grades: 10-12

Explore techniques and styles of journalistic writing and examine ethical issues facing professional journalists, the structure of news organizations, the origins of American journalism, and the role of media in society. Produce a variety of news, sports, editorial and entertainment stories. Student work may be published in the Polar Prints.

Journalism 2

Course code: 11689

1 trimester, 1 credit

Grades: 10-12

Prerequisite: Journalism 1

For advanced writers; focuses on techniques and production of in depth feature writing. Develop advanced copy editing skills and analyze and research journalism case studies. Student work may be published in the Polar Prints.

Language Arts

Myth and Legend

Course code: 11692

1 trimester, 1 credit

Grades: 9-12

Students of all abilities will enjoy learning about famous heroes like Perseus, Theseus, and Hercules, and ancient gods and goddesses like Zeus and Venus in this course on Greek and Roman mythology. Read "Antigone" and "Oedipus the King" by Sophocles. Also explore the influence of Greek myths and culture on our own 21st century society.

College Readiness: Reading, Test Taking and Study Skills

Course code: 11696

1 trimester, 1 credit

Grades: 9-12

This course helps prepare students for college by developing students' critical thinking and discussion skills through the reading, analysis, and discussion of a series of nonfiction texts. Students will also learn tangible strategies for college success in the areas of note taking, organization, time and stress management, and timed writing throughout the course.

Science Fiction/Fantasy

Course code: 11697

1 trimester, 1 credit

Grades: 11-12

This class welcomes students of all ability levels. Readings will be selected from such writers as Aldous Huxley, Ray Bradbury, Jules Verne, Isaac Asimov, and J.R.R. Tolkien. Students will explore the realms of science fiction and fantasy in writing and close readings of novels and short stories, as well as integrating technology in group discussions and projects.

College Reading 950 A & B

Course code: 11701/11702

2 trimesters, 2 credits

Grade: 12

This course is designed to prepare students to develop skills necessary to read college materials successfully. Emphasis is placed on a textbook reading system and its application to materials from a variety of college disciplines. This is a pure elective course, not a Language Arts elective. Earning a grade of C or above in this course grants the ability to directly enter the college level reading courses at Century College regardless of Accuplacer or ACT scores.

College Reading 950 and College

Reading 1000 A, B & C (*Note: this is a Century College Concurrent Enrollment course that results in college credit*)

Course code: 11704/11705/11706

3 trimesters, 3 credits

Grade: 12

Prerequisites: For part C only, a C or better in 950 **OR** a score of 21 or higher on the Reading section of the ACT

This course set combines Century College's College Reading 950 (above) and College Reading 1000. College Reading 1000 is a college level course in reading which emphasizes critical reading and thinking skills using focused questioning. This course primarily presents and applies strategies for crucial analysis and evaluation of college-level texts. Students will develop strategies to adjust reading rate based on need and purpose to enhance more effective textbook study and to increase college level vocabulary. ***This class meets the Language Arts elective and writing requirements.***

Mathematics

REQUIRED: Students must complete Intermediate Algebra, Geometry and Algebra 2 at the high school level. Therefore, a student who passes Intermediate Algebra as an advanced 8th grade course must complete Geometry and Algebra 2 in high school to complete the required Intermediate Algebra, Geometry and Algebra 2 courses. It is recommended that students continue with elective math courses beyond the required minimum. Since 2015, many colleges have required four years of high school math.

Grade 8/9	Intermediate Algebra				
Grade 9/10	•Geometry (3 trimesters)			OR	•Accelerated Geometry & Algebra 2 w/Trig A (3 trimesters)
Grade 10/11	•Algebra 2 with Trigonometry (3 trimesters)			OR	•Accelerated Algebra 2 w/Trig B and PreCalc A & B (year 2) (3 trimesters)
<div><div></div><div></div><div></div><div></div></div>					
Grade 11/12	•CIS College Algebra through Models	•AP Statistics	•Pre-Calculus		
	NOTE: AP Calculus AB and AP Calculus BC start at the same point after Pre-Calculus. The BC level course moves faster, covers more material, and may enable the student to take a higher level AP exam.		•AP Calculus AB (3 trimesters)	OR	•AP Calculus BC (3 trimesters)

REQUIRED COURSES

Most incoming ninth graders will register for Intermediate Algebra. If Intermediate Algebra has been successfully completed in 8th grade, then register for Geometry or consult your school counselor or current math teacher for the appropriate course.

Intermediate Algebra A, B & C

Course code: 11800/11801/11802

3 trimesters, 3 credits

Grades: 9-12

Students will analyze linear, exponential, quadratic, rational, and radical functions algebraically and graphically.

Geometry A, B & C

Course code: 11812/11813/11814

3 trimesters, 3 credits

Grades: 9-12

Prerequisite: Must have attempted all 3 credits of Intermediate Algebra A, B & C

Students will study two- and three-dimensional geometry with an emphasis on lines, triangles, quadrilaterals, circles, similarity, congruence, right triangle trigonometry, transformations, perimeter, area, and volume.

Accelerated Geometry A & B & Algebra 2 w/Trig A

Course code: 11815/11816/11817

3 trimesters, 3 credits

Grades: 9-12

Prerequisite: Intermediate Algebra A, B & C with a recommended grade of B– or better

Accelerated math is a pathway for students to take college level mathematics in high school. Major concepts are two- and three dimensional geometry, coordinate geometry, logical reasoning, and proofs. Topics include the relationship between lines, triangles, quadrilaterals and circles; similarity and congruence; right triangle trigonometry; and perimeter, area, and volume. Students must maintain a B- or higher to remain in this sequence.

Algebra 2 w/Trigonometry A, B & C

Course code: 11824/11825/11826

3 trimesters, 3 credits

Grades: 9-12

Prerequisites: Must have earned at least 2 credits of Intermediate Algebra **AND** have taken all three credits of Geometry A, B & C

Students continue their study of Algebra with major concepts that include algebraic functions (polynomial, radical, rational, exponential, trigonometric, recursive) probability, and statistics.

Mathematics

Accelerated Algebra 2 w/Trig B & Pre-Calculus A & B

Course code: 11827/11828/11829

3 trimesters, 3 credits

Grades: 9-12

Prerequisite: Accelerated Geometry A & B & Algebra 2 w/ Trig A with a grade of B– or better

This course is a continuation of Accelerated Algebra 2A with Trigonometry and is a pathway to taking college level mathematics in high school. This course reviews functions (polynomial, periodic, exponential, rational, and quadratic). Conic sections will be studied and trigonometry will be expanded. Students must maintain a B– or higher to remain in this sequence.

ELECTIVE COURSES

CIS College Algebra Through Models A, B & C

Course code: 11833/11834/11835

3 trimesters, 3 credits

Grade: 12 ONLY

Prerequisites: Intermediate Alg A, B & C and Alg 2 w/Trig A, B & C with an average grade of C+ or better. Class rank between 50th and 80th percentiles **AND** approval of the instructor.

This course introduces to the art of mathematical prediction through algebraic modeling and elementary probability theory. Students in this class will analyze data using basic algebraic functions. Students will gain a foundation in mathematics-based research and technical writing. This course provides a bridge to entry level college statistics courses and other college algebra courses.

Pre-Calculus A, B & C

Course code: 11836/11837/11838

3 trimesters, 3 credits

Grades: 9-12

Prerequisites: Must have earned all credits from Intermediate Algebra, Geometry, and Algebra 2 w/Trig A grade of C or better in Algebra 2 w/ Trig is recommended

Students will study the basic topics required for calculus (functions and their properties, matrices, conic sections, and limits). Calculator-based graphing technology is used extensively in this course and students are expected to use a graphing calculator.

AP Calculus AB A, B & C *

Course code: 11842/11843/11844

3 trimesters, 3 credits

Grades: 9-12

Prerequisite: Pre-Calculus A, B & C. A grade of C or better in pre-calculus is recommended.

This is an Advanced Placement level course with topics determined by the AP syllabus for Calculus AB (approximately one semester of college calculus). The Big Ideas of the course are Limits, Derivatives and Integrals. Students will apply calculus to solve problems presented symbolically, numerically, graphically and verbally.

AP Calculus BC A, B & C *

Course code: 11845/11846/11847

3 trimesters, 3 credits

Grades: 9-12

Prerequisites: Pre-Calculus A, B & C; a grade of B or better in pre-calculus is recommended.

This is an Advanced Placement level course with topics determined by the AP syllabus for Calculus BC (approximately two semesters of college calculus). The Big Ideas of the course are Limits, Derivatives, Integrals, and Series. Students will apply calculus to solve problems presented symbolically, numerically, graphically and verbally.

AP Statistics A, B & C *

Course code: 11866/11867/11868

3 trimesters, 3 credits

Grades: 10-12

Prerequisite: Algebra 2 w/Trig A, B & C

This is a college-level Statistics course. Discover statistical concepts through experiments and real life situations. Topics include data analysis, designing experiments, probability distributions, and statistical inference.

* College Credit Opportunity: Please consult your college of choice to see what credits can be earned. See page 3 for more information.

+ College Credit Opportunity: This course may earn an articulated credit. See your counselor for eligibility.

Music

NOTE: All vocal and instrumental music performance courses (band and choir) for Grades 9-12 can be taken multiple times for credit. All performances are mandatory and all band and choir members must abide by MN State High School League Rules. Students who wish to take BOTH band and choir need instructor approval. Those who do take both band and choir will receive .5 credits in each course each term. All Band and Choir courses are year long experiences.

Instrumental Music	Vocal Music	Classroom Music
•Varsity Band	•Varsity Choir	•Rock Band 101
•Concert Band	•Concert Choir	•Modern Music Production
•Symphonic Band	•Concert Chorale/ Northern Lights Show Choir	•Guitar 1
		•Guitar 2
		•Guitar 3
		•Guitar 4

Varsity Band A, B & C

Course code: 11900/11901/11902

3 trimesters, 3 credits

Grade: 9

Prerequisites: Successful completion of 8th grade band **OR** audition with instructor

Varsity Band is a yearlong course for freshman band students. Sectional lessons will be provided on a rotating basis. Varsity Band is designed to develop musical techniques and expression through large group rehearsals, sectional lessons and a variety of performance opportunities at school and in the community.

Concert Band A, B & C

Course code: 11914/11915/11916

3 trimesters, 3 credits

Grades: 10-12

Prerequisites: Varsity Band **OR** ability to demonstrate comparable skill

Concert band is a yearlong course for intermediate and advanced level band students in grades 10 - 12. Concert Band is designed to develop more advanced musical technique and expression through large group rehearsals, sectional lessons, participation in Region 4AA Large Group State Contest and a variety of performance opportunities at school and in the community.

Symphonic Band A, B & C

Course Code: 11929/11930/11931

3 trimesters, 3 credits

Grades: 10-12

Prerequisite: Audition

Symphonic band is a yearlong course that meets daily for advanced level band students in grades 10, 11 and 12. Symphonic Band is designed to develop a high level of musical excellence through challenging musical literature, daily large group rehearsals, participation in Region 4AA Large Group State Contest and a variety of performance opportunities at school and in the community.

Varsity Choir A, B & C

Course Code: 11904/11905/11906

3 trimesters, 3 credits

Grade: 9

Prerequisite: Previous choir experience

This freshman mixed choir is a year long course that will explore proper vocal techniques, various styles of choral music, sight singing, rhythmic and listening skills to enhance ensemble intonation, balance and blend. There will be group lessons and school performances

Concert Choir A, B & C

Course code: 11917/11918/11919

3 trimesters, 3 credits

Grades: 10-12

Prerequisite: Previous choir experience

This intermediate mixed choir is a year long course that will explore proper vocal techniques, various styles of choral music, sight singing, rhythmic and listening skills to enhance ensemble intonation, balance and blend. There will be group lessons and school performances.

Concert Chorale A, B & C

Course code: 11932/11933/11934

3 trimesters, 1.5 credits

Grades: 9-12

Prerequisites: Audition with instructor **AND** concurrent enrollment in Northern Lights Show Choir. Students of this choir must ALSO be members of the Show Choir.

This mixed choir is for the serious singer who wishes to pursue more difficult musical challenges and perform more advanced choral literature. The ability to read music is a requirement. Members are expected to perform in Region 4AA Large Group, Solo and Ensemble Contests, and participate in an out of state tour.

Northern Lights Show Choir A, B & C

Course code: 11938/11939/11940

3 trimesters, 1.5 credits

Open to Concert Chorale students only

Prerequisites: Audition with instructor **AND** concurrent enrollment in Concert Chorale Alternates days with Concert Chorale.

Students are responsible for learning the music and choreography for each song and are required to attend all performances for school events and competitions, and are also expected to work outside of class time to improve skills.

Guitar 1

Course code: 11944

1 trimester, 1 credit

Grades: 9-12

Students will learn basic music theory, how to read and play single-note melody music notation, basic chord fingerings and strumming techniques. Students will perform both individually and in small groups for the class. Students will also be assessed on individual playing assignments. Acoustic guitars will be provided for classroom use. Students must purchase their own textbook and guitar picks. At-home practice is necessary for success in this class. It is highly recommended that students have a guitar at home for practice purposes.

Guitar 2

Course code: 11945

1 trimester, 1 credit

Grades: 10-12

Prerequisite: Guitar 1

Students will continue music theory study, improve music reading skills, learn additional chord fingerings, and strumming techniques. Students will perform both individually and in small groups for the class. Students will also be assessed on individual playing assignments. Acoustic guitars will be provided for classroom use. Students must purchase their own textbook and guitar picks. At-home practice is necessary for success in this class. It is highly recommended that students have a guitar at home for practice purposes.

Guitar 3

Course code: 11946

1 trimester, 1 credit

Grades: 10-12

Prerequisite: Guitar 2

In this course, students will practice and perform solo and ensemble music, scales, intermediate rhythmic patterns, rock and classical guitar techniques, improvise, and study a variety of guitar styles from around the world. This course will conclude with a student recital of solo and ensemble performances. Guitar 3/4 can be taken multiple times in order to continue studying guitar.

Guitar 4

Course code: 11947

1 trimester, 1 credit

Grades: 10-12

Prerequisite: Guitar 3

In this course, students will practice and perform solo and ensemble music, study music theory, scales, and advanced rhythmic patterns, advanced rock, jazz, and classical guitar techniques, improvise and study a variety of guitar styles from around the world. This course will conclude with a student recital of solo and ensemble performances. Guitar 3/4 can be taken multiple times in order to continue studying guitar.

Music

Rock Band 101

Course code: 11960

1 trimester, 1 credit

Grades: 10-12

Prerequisite: Guitar 1

In this class, students will learn basics in reading music, improvisation, and how to make an arrangement for a band from a recording. Students will be required to learn the basics of all the instruments in a rock band (guitar, bass, drums and keyboard) and play a song on each of those instruments. Additionally, each student will have to sing a song with the band. This class will give the aspiring rock musician the musical foundation to be successful in their own rock band.

Modern Music Production

Course code: 11928

1 trimester, 1 credit

Grades: 9-12

Modern Music Production combines music theory and keyboarding in a project-based format that is centered around writing, playing, and recording pop music. Learn to create beats, bass lines, chords, and melodies using just a computer and a keyboard.

Required: All students must complete at least nine Science credits			
Typical sequence:			
Grade 9	•Earth & Space Science A, B, & C (3 credits)		
Grade 10	•Biology A, B & C (3 credits)		
Grade 11*	•Introductory Chemistry A, B & C (3 credits) OR •Chemistry A, B & C (3 credits) OR •AP Chemistry A, B & C (6 credits)	OR	•Physics A, B & C (3 credits) OR •AP Physics A, B & C (6 credits)
* Must take Chemistry OR Physics			

Science Electives	
•AP Biology (3 credits)	•Human Anatomy and Physiology 1 (1 credit)
•Astronomy (1 credit)	•Human Anatomy and Physiology 2 (1 credit)
•Forensic Science 1 (1 credit)	•AP Environmental Science A, B & C (3 credits)
•Forensic Science 2 (1 credit)	

Earth & Space Science A, B & C

Course codes: 12470/12471/12472

3 trimesters, 3 credits

Grade: 9

Students will apply scientific reasoning to the oceans, atmosphere, Earth's surface and interior, and space. Topics include Earth's structure, plate tectonics, earthquakes, volcanoes, surface and groundwater, geologic time, stars and interstellar matter, planets, satellites, the atmosphere, global climate patterns, and ocean and air currents.

Biology A, B & C

Course codes: 12406/12407/12408

3 trimesters, 3 credits

Grade: 10

Biology is designed to give the student a background in general biological concepts. The topics include scientific processes and methods, cell theory, mechanics of heredity, interdependence of organisms, material cycles and energy flow in the living system. Biology is also a survey of all living organisms, as well as studies on evolutionary theory and ecological principles.

Chemistry A, B & C

Course codes: 12412/12413/12414

3 trimesters, 3 credits

Grades: 10-12

Prerequisites: Biology AND Geometry

Emphasis is placed on first-hand laboratory experiences. The labs serve to illustrate the chemical concepts and theories presented in class. The topics covered in this course are the dimensional analysis, conversions, density, matter, chemical and physical changes, thermodynamics, atomic structure, quantum mechanics, the periodic table, formula-writing, and the mole. Other topics covered are stoichiometry, chemical equations, bonding, gas laws, kinetics, and nuclear chemistry.

AP Chemistry A, B & C *

Course codes: 12424/12425/12426

3 trimesters, 6 credits

Grades: 10-12

Prerequisites: Biology AND completion or currently enrolled in Algebra II w/Trig

AP Chemistry Year 1 covers in greater depth the topics covered in a traditional high school chemistry course. A college-level textbook is used, chemical calculations are more involved and the laboratory work is of greater variety and rigor. This course will enable students to succeed in a first-year college chemistry course or AP Chemistry Year 2.

* College Credit Opportunity: Please consult your college of choice to see what credits can be earned. See page 3 for more information.

+ College Credit Opportunity: This course may earn an articulated credit. See your counselor for eligibility.

Science

Introductory Chemistry A, B & C

Course codes: 12464/12465/12466

3 trimesters, 3 credits

Grades: 10-12

Prerequisites: Biology **AND** completed or currently in Algebra 1

This is a lab-based science course designed for students to explore the impact and importance of chemistry in their lives. There is a special emphasis on learning with applications to the real world.

Physics A, B & C

Course codes: 12430/12431/12432

3 trimesters, 3 credits

Grades: 11-12

Prerequisites: Algebra 1 **AND** Geometry

This course will provide an overview of classical physics with an emphasis on mathematical problem solving. Topics will include motion and forces in both one and two dimensions, energy, electricity, magnetism, mechanical waves, and light. This course is designed for students pursuing college degrees such as science, engineering, or medicine.

AP Physics 1 A, B & C *

Course codes: 12440/12441/12442

3 trimesters, 3 credits

Grades: 11-12

Prerequisites: Completed or currently enrolled in Pre-Calculus **AND** highly recommend completed chemistry

Students explore principles of Newtonian mechanics (including rotational motion); work, energy, and power; mechanical waves and sound; and introductory, simple circuits. The course is based on six Big Ideas, which encompass core scientific principles, theories, and processes that cut across traditional boundaries and provide a broad way of thinking about the physical world.

AP Biology A, B & C *

Course codes: 12443/12444/12445

3 trimesters, 3 credits

Grades: 11-12

Prerequisites: Biology C **AND** Chemistry C or concurrent enrollment in Chemistry or AP Chemistry

Designed for college-bound biology majors, or pre-med, pre-vet and related fields. AP Biology is taught at the collegiate level, including the use of a college text. All students are expected to take the AP Bio exam in May.

Astronomy

Course code: 12446

1 trimester, 1 credit

Grades: 10-12

Prerequisite: Successful completion of 9th grade science

Dig deeper into the space beyond us and understand the objects in the sky while others only wonder. Topics include mapping the sky, investigating technology, deep space objects and the solar system. Students must be able to transport themselves to at least one required evening star party.

Forensic Science 1

Course code: 12450

1 trimester, 1 credit

Grades: 11-12

Prerequisites: Biology A, B & C

In this class you will be applying your science knowledge to solve crimes and study true crime cases. Areas of study: Crime scenes, Forensic Psychology, Fingerprints, Ballistics, Impressions and Handwriting Analysis.

Forensic Science 2

Course code: 12462

1 trimester, 1 credit

Grades: 11-12

Prerequisite: Forensic Science 1

A continuation of Forensic Science 1. Areas of study: Hair, fibers, blood spatter, DNA, and death.

Human Anatomy and Physiology 1

Course Code: 12453

1 trimester, 1 credit

Grades: 11-12

Prerequisites: Biology A, B & C

Build on the skills developed in Biology by investigating the fascinating structures and systems of the human body.

Human Anatomy and Physiology 2

Course code: 12454

1 trimester, 1 credit

Grades: 11-12

Prerequisite: Human Anatomy and Physiology 1

A continuation of Human Anatomy and Physiology 1. The detailed study of the systems in the human body and its ability to maintain homeostasis.

* College Credit Opportunity: Please consult your college of choice to see what credits can be earned. See page 3 for more information.

+ College Credit Opportunity: This course may earn an articulated credit. See your counselor for eligibility.

AP Environmental Science A, B & C *

Course code: 12459/12460/12461

3 trimesters, 3 credits

Grades: 10-12

Prerequisites: Completed Chemistry **OR** concurrently enrolled in Chemistry

Students will identify and analyze natural and human-made environmental problems, evaluate the risks with these problems, and examine alternative solutions for resolving or preventing them. It is interdisciplinary, embracing topics from geology, biology, environmental studies, chemistry, and geography. 5 main sections are covered: Ecological Principles, Population, Food, Land, and Biological Resources, Pollution, and Society and the Environment.

* *College Credit Opportunity: Please consult your college of choice to see what credits can be earned. See page 3 for more information.*

+ *College Credit Opportunity: This course may earn an articulated credit. See your counselor for eligibility.*

Social Studies

All students must take 10 required Social Studies credits		Credits
Grade 9	<ul style="list-style-type: none"> • Social Studies 9 A & B OR <ul style="list-style-type: none"> • AP Human Geography A, B & C 	2 or 3
Grade 10	<ul style="list-style-type: none"> • World History A, B & C OR <ul style="list-style-type: none"> • AP World History A, B & C 	3
Grade 11	<ul style="list-style-type: none"> • US History A, B & C OR <ul style="list-style-type: none"> • AP US History A, B & C 	3
Grade 12	<ul style="list-style-type: none"> • Economics OR <ul style="list-style-type: none"> • AP Macroeconomics A & B AND <ul style="list-style-type: none"> • Political Science OR <ul style="list-style-type: none"> • AP US Government & Politics A & B 	1 OR 1 req/1 elec AND 1 OR 1 req/1 elec

Social Studies electives	
• America at War	• Intro to Psychology
• AP Microeconomics	• AP Psychology
• Current Events	• World Religions
• Minnesota Studies	• Asian Studies
• Criminology and the Law 1	

Social Studies 9 A & B

Course codes: 12500/12501

2 trimesters, 2 credits

Grade: 9

This is a two-trimester survey course required for all ninth grade students. Concepts of physical geography are reviewed. Emphasis placed on land use, cultural diffusion, settlement patterns and global interconnectivity will be covered in depth.

AP Human Geography A, B & C *

Course codes: 12504/12505/12506

3 trimesters, 3 credits

Grade: 9

This course introduces students to the systematic study of patterns and processes that have shaped human understanding, use, and alteration of the Earth's surface. Students employ spatial concepts and landscape analysis to examine human social organization and its environmental consequences. They also learn about the methods and tools geographers use in their science and practice. Students can expect daily homework, reading, and a significant amount of writing (free response) on exams.

World History A, B & C

Course codes: 12511/12512/12513

3 trimesters, 3 credits

Grade: 10

Survey course covers major developments in early history, cultural and socio-political movements, and historical figures. Units include prehistory, ancient history, early world civilizations, new developments in government and society, the age of exploration, industrialization and imperialism, World War I, World War II, the Cold War, the fall of Communism, and current issues.

AP World History A, B & C *

Course codes: 12514/12515/12516

3 trimesters, 3 credits

Grade: 10

Students learn about the evolution of global processes and interactions with different societies and cultures. Students will also examine the nature of changes in international frameworks and compare major societies. Students are required to complete college level reading assignments and rigorous writing assignments.

* College Credit Opportunity: Please consult your college of choice to see what credits can be earned. See page 3 for more information.

+ College Credit Opportunity: This course may earn an articulated credit. See your counselor for eligibility.

Social Studies

US History

Course codes: 12526/12527/12528

3 trimesters, 3 credits

Grade: 11

US History is a survey course that focuses on the social, political and economic events that shaped American life beginning in the colonial era spanning the present. Students will also consider America's place in the world. Students learn map skills, develop critical thinking, and learn how to analyze primary source documents.

AP US History A, B & C *

Course codes: 12529/12530/12531

3 trimesters, 3 credits

Grade: 11

Advanced Placement U.S. History is designed to provide students with the analytical skills and factual knowledge necessary to examine the content and significance of major events in American history. It prepares students for college by making demands on them that are equivalent to those of an introductory-level college course.

Economics

Course code: 12535

1 trimester, 1 credit

Grade: 12

This is a survey course that will enable students to gain an understanding of the free enterprise system. The economic concepts of scarcity, opportunity cost, supply and demand, inflation, monetary and fiscal policy, and international trade will be examined. The course is designed to provide students with the knowledge and skills needed to understand and make reasoned judgements about major economic questions they will face as consumers, producers, savers, and investors in today's society.

AP Macroeconomics A & B *

Course code: 12536/12537

2 trimesters, 2 credits

Grade: 12

This course is designed to give students an understanding of the economic system as a whole. Particular emphasis is placed on the study of national income, price determination, and macroeconomic performance measures.

Political Science

Course code: 12544

1 trimester, 1 credit

Grade: 12

Political science provides students with the basic skills needed to strengthen their critical thinking skills and enhance their role in the American political system. This course will emphasize the differences in how power and authority are divided within the United States and around the world. Students will be asked to look more closely at the American political system in regards to the US Constitution, the citizenship/naturalization process, ideological differentiation found in the US, and the history of the suffrage movements and current election system. ***This class is required for graduation.***

AP US Government and Politics A & B *

Course code: 12545/12546

2 trimesters, 2 credits

Grade: 12

Intended for students who are highly motivated and have a strong interest in government, politics and current events. Students will study general concepts and specific cases. They will also examine the various institutions, groups, beliefs, and ideas that constitute American political behavior and the influence they have on both personal political decisions and public policy decisions.

America at War

Course code: 12552

1 trimester, 1 credit

Grades: 9-12

Examines America's participation in the wars and conflicts of the 20th-21st centuries. It will also include an examination of possible future conflicts. The battles, leaders, weapons, technologies and strategies of the conflicts will be studied. Additionally, why and how America became engaged in these conflicts will be investigated, along with the unique role our democracy has played in our waging of war.

Asian Studies

Course code: 12553

1 trimester, 1 credit

Grades: 10-12

Learn about the largest and most populous continent on the Earth. Examine the geography, history and cultures of South, East, and Southeast Asia, including the cultures of India, China, Japan and Korea. Learn how Asia has become one of the most dynamic regions in the world.

* College Credit Opportunity: Please consult your college of choice to see what credits can be earned. See page 3 for more information.

+ College Credit Opportunity: This course may earn an articulated credit. See your counselor for eligibility.

Social Studies

Criminology and the Law 1

Course code: 12556

1 trimester, 1 credit

Grades: 10-12

Students will learn about the Bill of Rights, types of crime, causes for crime, law enforcement, and criminal procedures. They will analyze types and causes of crime. Group and independent projects will be completed.

Current Events

Course code: 12558

1 trimester, 1 credit

Grades: 10-12

Students will study various sources of current events - local and national newspapers, weekly periodicals, international, national and local broadcasting and Internet web sites/blogs. They will analyze, discuss and debate the influence of these events on the political, economic, religious, environmental and cultural systems of our world. They will also analyze the impact on our personal lives.

Intro to Psychology

Course code: 12559

1 trimester, 1 credit

Grades: 11-12

Introduction to Psychology is designed to introduce the major topics covered in an introductory level college psychology course. Topics include the brain, sensation, perception, thinking, memory, intelligence, and selected topics in human development.

AP Psychology A & B *

Course code: 12563/12564

2 trimesters, 2 credits

Grades: 11-12

AP Psychology is an introduction to the scientific study of human behavior and prerequisite for all other Psychology courses at the college level. This course explores how something as complex as human behavior can be studied scientifically: biological, social and environmental influences on human behavior, predictable ways in which humans behave, reason, remember and feel and ways in which humans differ. Major subject areas of this course include history, theoretical approaches, research methods, biological bases of behavior, sensation and perception, state of consciousness, learning, cognition, motivation and emotion, development, personality, testing and individual differences, abnormal behavior, treatment of psychological disorders, and social behavior. This course is open to 11th and 12th grades.

Minnesota Studies

Course code: 12560

1 trimester, 1 credit

Grades: 9-12

Did you know that Minnesota has an international seaport, cactus plants, the world's largest ball of twine and a mountain? Study the rich history of Minnesota including the voyageurs, pioneer immigrants, the Dakota Conflict, and much more. Also study the geography, topography, and resources of our own state.

World Religions

Course code: 12562

1 trimester, 1 credit

Grades: 10-12

What is religion? Why are there so many different religions? What do other people believe in? The class will look at all the major religions of the world (and some of the smaller ones) and go into depth on topics chosen by each class. The global and personal dimensions of this most fascinating topic will also be explored.

AP Microeconomics *

Course code: 12538

1 trimester, 1 credit

Grade: 12

Prerequisite: Concurrent enrollment in AP Macro A & B

Students will gain an understanding of the principles of microeconomics and the nature and function of product and factor markets. This course provides the opportunity to work with a local company so students may gain practical experience related to the concepts taught in class. This is an elective course. It does not fulfill the requirement for senior economics.

* College Credit Opportunity: Please consult your college of choice to see what credits can be earned. See page 3 for more information.

+ College Credit Opportunity: This course may earn an articulated credit. See your counselor for eligibility.

Technology Education

Cluster	Level 1	Level 2	Level 3	Level 4
Transportation	•Voc Auto Tech 1	•Voc Auto Tech 2		
	•Small Engines 1	•Small Engines 2		
Construction	• Woodworking 1: Creating the Foundation	•Woodworking 2: Produce a Quality Piece	•Woodworking Tech 3: Design and Create a Quality Piece	•Independent Study: Woods
	•Carpentry: Home Construction			
Communication	•Electronics 1	• Electronics 2: Microcontrollers		
		•Robotics		
	•Computer Integrated Manufacturing A	•Computer Integrated Manufacturing B	•Computer Integrated Manufacturing C	

Technology education is the study of current technologies, materials, processes, machines, and tools. Introductory courses are exploratory in nature and contain fundamental consumer knowledge and experiences with common machinery, as well as career planning information. Advanced courses are either for students who are developing vocational skills or for students who enjoy working in these areas.

Electronics 1

Course code: 13000

1 trimester, 1 credit

Grades: 9-12

Students learn basic electrical theory, Ohm's Law, series & parallel circuits, magnetism, AC/DC meters, and solid-state devices. Students will use test equipment, learn soldering and assemble electronic circuits.

Electronics 2: Microcontrollers

Course code: 13002

1 trimester, 1 credit

Grades: 9-12

Prerequisite: Electronics 1

Begin to learn and understand the power of microcontrollers via Arduino open-source circuit boards. Students will learn how they can control and set up a microcontroller with basic electrical components from Electronics 1. Programming language will be introduced to make the electronics do anything and everything the student wants.

Robotics

Course code: 13001

1 trimester, 1 credit

Grades: 9-12

Prerequisites: Electronics **OR** Computer Integrated Manufacturing A

Designed for the highly motivated student with a strong interest in design, engineering, and robotics. Using the FIRST Robotics Challenge as a basis, the student will learn design, 3D modeling (using Inventor), electronic controls, and programming. FIRST is sponsored by many colleges and universities, including the U of M, and offers over fifteen million dollars in scholarships.

Small Engines 1

Course code: 13005

1 trimester, 1 credit

Grades: 9-12

Students learn how small engines operate. Each student may bring one lawn mower or go-kart type four-cycle engine to class. The class project is to completely disassemble and reassemble a small gas engine.

Technology Education

Small Engines 2

Course code: 13006

1 trimester, 1 credit

Grades: 10-12

Prerequisite: Small Engines 1

Students will engage in an in-depth study of small engines with special emphasis placed on 2-cycle operation, overhead valve design, and multi-cylinder engine theory. Students are strongly encouraged to bring a riding lawn mower, motorcycle, snowmobile, outboard, or similar engine to class.

Voc Auto Tech 1

Course code: 13009

1 trimester, 1 credit

Grades: 10-12

This course is an introduction to the automobile for students who are considering a career in automotive technology or for students who are interested in studying the automobile in-depth. Entry-level occupational skills such as tire repair and service, use of the air impact and torque wrenches, cooling system service, complete lubrication service, and uses of technical information systems are presented. Further coursework will include safety, lifting, tool identification, and small engine repair.

Voc Auto Tech 2

Course code: 13010

1 trimester, 1 credit

Grades: 10-12

Prerequisite: Vocational Auto 1

This course is for students who have demonstrated a strong interest in transportation. Students will gain advanced experiences in engine fundamentals, classifications, top end construction, bottom end construction, and engine size and performance measurements. Students will disassemble, measure, and reassemble a provided automotive engine using the service manual as a guide.

Woodworking Tech 1: Creating the Foundation

Course code: 13020

1 trimester, 1 credit

Grades: 9-12

Provides the opportunity to learn to successfully work with wood. Students learn the safe operation of hand tools and machines and will construct individual projects. Students are required to bring a tape measure and safety glasses.

Woodworking Tech 2: Create a Quality Piece

Course code: 13021

1 trimester, 1 credit

Grades: 9-12

Prerequisite: Woodworking Tech 1

Students will design and construct a piece of furniture. Special emphasis will be put on tasteful and balanced design. A tape measure and safety glasses are required for this course.

Woodworking Tech 3: Design and Create a Quality Piece

Course code: 13022

1 trimester, 1 credit

Grades: 10-12

Prerequisite: Woodworking Tech 2

Students gain more extensive experience in the woodworking field and create more elaborate furniture products. A tape measure and safety glasses are required for this course.

Carpentry: Home Construction

Course code: 13052

1 trimester, 1 credit

Grades: 9-12

Students learn about home maintenance and construction. They explore the selection and use of hand and portable power tools, basic electrical repair, roofing, and sheet-rocking. Models and class projects will be used.

Independent Study: Woods

Course code: 13025

1 trimester, 1 credit

Grades: 10-12 with teacher permission

Prerequisites: Woodworking Tech 3 **AND** Independent Study form

Designed for the student who has completed the Woods program and would like to continue to apply skills and learning to an advanced project. The student and project must be approved by the instructor prior to registration.

Technology Education

Computer Integrated Manufacturing A

Course code: 13044

1 trimester, 1 credit

Grades: 9-12

This course is an introduction to personal/industrial digital fabrication. The Fab Lab is designed to allow participants to explore their interests in a variety of fields including graphic design, art, business, computer-assisted design (CAD), physical and natural sciences, mathematics, and engineering. Over the course of this class, you will learn to use commercially available technologies such as Milling Machines, CNC Plasma Cutters, 3D Printers, Engraving/Embossing Machines, and other rapid prototyping technologies to conceptualize, design, and fabricate ideas. This version of the course does NOT earn college credit and a student may not take course 13050 later.

Computer Integrated Manufacturing B

Course code: 13045

1 trimester, 1 credit

Grades: 9-12

Prerequisite: Computer Integrated Manufacturing A

This course is an extension of Intro to Digital Fabrication. It will focus on Mechanical Engineering, allowing participants to follow the design process by identifying a problem, researching, brainstorming, designing, prototyping/creating, and evaluating the solution. This class will involve graphic design, art, business, computer-assisted design (CAD), physical and natural sciences, mathematics, and engineering.

We will create a structure with the support of rapid prototyping technologies including the vinyl cutter, CNC, laser cutter and 3D printer (as taught in CIM 'A'). We will also discuss CAD assemblies and virtual prototyping, identifying criteria/constraints, and developing evaluative criteria to gauge success. We will also be diving into fastening systems, press fit applications and machine tolerances multiple times throughout the trimester. Over the course of this class, you will demonstrate innovation and creativity by reverse engineering, designing and building your own 3D printer frame and supporting components.

Computer Integrated Manufacturing C

Course code: 13046

1 trimester, 1 credit

Grades: 9-12

Prerequisites: 13050 Computer Integrated Manufacturing A/B **OR** 13045 Computer Integrated Manufacturing B

This course is an extension of Computer Integrated Manufacturing B. It will focus on Electrical Engineering, allowing participants to follow and learn about the various components that make things work in our world of electronics and electricity. This class will involve graphic design, art, business, computer-assisted design (CAD), physical and natural sciences, mathematics, and engineering.

Over the course of this class, you will demonstrate innovation and creativity by assembling the electrical systems of a complex machine using a variety of wiring techniques and connections. You will also be experiencing computer science applications programming the machine using firmware and Visual Studio Code to control and operate it. We will dive a bit into C/C++ in which we will learn how to manipulate the firmware to move a 3D printer relative to its created G-code.

World Language

World Languages	
•French 1 A, B & C	•Spanish 1 A, B & C
•French 2 A, B & C	•Spanish 2 A, B & C
•French 3 A, B & C	•Spanish 3 A, B & C
•CIS French 1003 A, B & C	•CIS Spanish 1003 A, B & C
•CIS French 1004 A, B & C	•CIS Spanish 1004 A, B & C
	•Heritage Language - Spanish

French 1 A, B & C

Course codes: 13100/13101/13102

3 trimester, 3 credits

Grades: 8-12

Students will work on acquiring beginning-level competence in interpretive, interpersonal, and presentational communication. Content themes—self, school, family, food, home, making plans and travel—are explored through speaking, listening, reading, and writing. Approximately 90% of the interactions will be conducted in the target language.

French 2 A, B & C

Course codes: 13103/13104/13105

3 trimester, 3 credits

Grades: 8-12

Prerequisites: French 1 **OR** instructor permission

Students continue acquiring competence in interpretive, interpersonal, and presentational communication. Content themes—self, school, family, food, home, daily routines, travel, and shopping—are explored through speaking, listening, reading, and writing. Approximately 90% of the interactions will be conducted in the target language.

French 3 A, B & C

Course codes: 13106/13107/13108

3 trimester, 3 credits

Grades: 9-12

Prerequisites: French 2 **OR** instructor permission

Students continue acquiring competence in interpretive, interpersonal, and presentational communication. Content themes extend from self, outward to community, and beyond. This course includes authentic literary selections and closer study of target cultures. Approximately 90% of the interactions will be conducted in the target language.

CIS French 1003 A, B & C

Course codes: 13112/13113/13114

3 trimester, 3 credits

Grades: 11-12

Prerequisites: French 3 **OR** instructor recommendation

Content will include the culture of France, the culture of the Francophone countries, grammar study, and extensive proficiency-based activities. This includes writing in French and discussion of French literature. Due to the rigor of this course and University of Minnesota requirements, students must have earned a grade of C or better in their previous French class (French 3).

CIS French 1004 A, B & C

Course codes: 13118/13119/13120

3 trimester, 3 credits

Grade: 12

Prerequisites: CIS 1003 with a grade of C- or better

Content will include the culture of France, the culture of the Francophone countries, grammar study, and extensive proficiency-based activities. This includes writing in French and discussion of French literature.

Spanish 1 A, B & C

Course codes: 13142/13143/13144

3 trimester, 3 credits

Grades: 8-12

Students will work on acquiring beginning-level competence in interpretive, interpersonal, and presentational communication. Content themes—self, school, family, food, home, making plans, and travel—are explored through speaking, listening, reading, and writing. Approximately 90% of the interactions will be conducted in the target language.

World Language

Spanish 2 A, B & C

Course codes: 13145/13146/13147

3 trimester, 3 credits

Grades: 8-12

Prerequisites: Spanish 1 **OR** instructor permission

Students continue acquiring competence in interpretive, interpersonal, and presentational communication. Content themes—self, school, family, food, home, daily routines, travel, and shopping—are explored through speaking, listening, reading, and writing. Approximately 90% of the interactions will be conducted in the target language.

Spanish 3 A, B & C

Course codes: 13148/13149/13150

3 trimester, 3 credits

Grades: 9-12

Prerequisites: Spanish 2 **OR** instructor permission

Students continue acquiring competence in interpretive, interpersonal, and presentational communication. Content themes extend from self, outward to community, and beyond. This course includes authentic literary selections and closer study of target cultures. Approximately 90% of the interactions will be conducted in the target language.

CIS Spanish 1003 A, B & C

Course codes: 13139/13140/13141

3 trimester, 3 credits

Grades: 11-12

Prerequisites: Spanish 3 **OR** Spanish Conversation and Culture **OR** instructor permission

Content will include the culture of Spanish speaking countries, grammar study, and extensive proficiency-based activities. This includes writing in Spanish and discussion of Spanish literature. CIS 1003 is designed for students who would like to enroll in CIS Spanish and would benefit from the additional time afforded by a year-long course. Due to the rigor of this course and the University of Minnesota requirements, students must have earned a grade of C better in their previous Spanish class (Spanish 3 or Spanish Conversation and Culture).

Heritage Language - Spanish

Course codes: 13160/13161/13162

3 trimester, 3 credits

Grades: 9-12

Prerequisites: Primarily speak Spanish in the home with family request **AND** instructor permission

Este curso ha sido diseñado para el estudiante que habla español con fluidez. La clase será impartida estrictamente en español. El énfasis será puesto en el mejoramiento y aprendizaje de las destrezas en la lectura, la redacción, y la gramática. El objetivo es el de proveer al estudiante las habilidades académicas necesarias para manejar el lenguaje más sofisticadamente en el discurso escrito y oral. El curso también le ofrece al estudiante la oportunidad de aprender a apreciar la riqueza de la cultura hispana por medio de elementos históricos, culturales y lingüísticos.

This course has been designed for students who speak Spanish fluently. The class will be instructed in Spanish. Emphasis will be on the improvement and learning of skills in the areas of reading, writing, and grammar. The objective is to provide Spanish-speaking students with academic skills in the language. The course will also offer students the opportunity to appreciate the richness of Hispanic culture by studying historical, cultural, and linguistic elements.

CIS Spanish 1004 A, B & C

Course codes: 13182/13183/13184

3 trimester, 3 credits

Grade: 12

Prerequisite: CIS 1003 with a grade of C- or better

Content will include the culture of Spanish-speaking countries, grammar study, and extensive proficiency-based activities. This includes writing in Spanish and discussion of Spanish literature. CIS 1004 is designed for students who would benefit from additional time afforded by a year-long course.

Non-departmental

Career and Tech Courses

Course codes: 12157/12158/12159

3 trimesters, 6 credits

Grades: 11-12

Prerequisite: Application available online

Post Secondary Enrollment Option (PSEO) Program

Credits vary

Grades: 11-12

Prerequisite: Top 33% of junior class **OR** top 50% of senior class; application and contract required

PSEO is offered through Century College and other post-secondary schools. Register for North classes first.

Early Graduation

Course codes: 12271

Grade: 12

Prerequisite: On track to graduate with credits and graduation tests

Northeast Metro 916 Career & Tech Center 2023-24 Programs

(All programs eligible for high school elective credit. Certifications/credentials and college credit dependent on program specific criteria.)

ARTS, COMMUNICATIONS, AND INFORMATION SYSTEMS

INFORMATION TECHNOLOGY: REPAIR, NETWORK, CYBERSECURITY

- Solve real-world technology problems for by using high-tech troubleshooting techniques
- Experience the power of Python programming to unlock the worlds of automation plus game and software development
- Protect computers and networks to defend against criminal and terrorist threats

R3 *College Credit, Certifications, Scholarships*

ANIMATION AND GAME DESIGN

- Unleash the power of art and technology to produce eye-catching graphics and motion
- Bring a creative vision to life using professional techniques, high-tech gaming and other visual media
- Showcase your abilities alongside other creative and technical individuals while creating a professional portfolio

R2 *College Credit, Career Experiences, Scholarships*

HEALTH SCIENCE TECHNOLOGY

DENTAL CAREERS

(grade 12 only)

- Develop a passion to educate adults and children on the importance of oral health, hygiene, and diet
- Perform a wide range of dental services including chairside assistance, instrument transfer, and oral impressions,
- Explore careers in this fast-growing healthcare field such as orthodontics, oral surgery, and endodontics

R3 *College Credit, Certifications, Local/State/Nat. Competitions*

EMERGENCY MEDICAL TECHNICIAN

(grade 11 or 12)

- Experience the thrill of saving lives in real-world emergency situations where your actions make a difference
- Perform detailed medical and trauma patient assessments using advanced emergency equipment
- Engage in ambulance ride-alongs, 911 call center job shadowing, and auto extrications

R3 *College Credit, Scholarships, Local/State/Nat. Competitions*

MEDICAL CAREERS SERIES

For more info, please visit: bit.ly/916medcareers

- 1) Medical Careers- Introduction** (grade 10 and up) **R2**
- 2) Nursing Assistant** (grade 10 and up) **R3**
- 3) Phlebotomy (Blood Draw)** (grade 12 only) **R3**
- 4) Work Based Learning/Mentor Connection** (work release)
-Must hold certification and provide own transportation
College Credit, Certifications, Local/State/Nat. Competitions

How to Register

Students interested in attending courses at 916 Career and Tech must register through their counselor at their home school. For more information, visit www.916careertech.org

ENGINEERING, MANUFACTURING, & TECHNOLOGY

AUTOMOTIVE AND WELDING CAREERS: INTRODUCTION

(1 or 2 year program) / (grade 10 and up)

- Jumpstart your future in the automotive industry preparing for careers such as: automotive mechanic, tire, lube or auto collision technician
- Explore welding such as MIG, TIG, Stick, acetylene, and virtual methods
- Experience a real-life automotive shop environment utilizing the same tools and equipment as professionals

R1 *Professional Skills, Scholarships, Professional Networking*

AUTOMOTIVE TECHNOLOGY

(1 or 2 year program)

- Maintain, repair, and fine-tune a wide range of vehicles alongside an ASE Master Technician in a full-service automotive center
- Utilize the same advanced diagnostic and repair equipment as industry professionals to troubleshoot complex systems
- Optimize vehicle operation and performance using applied critical thinking and problem solving

R3 *Certifications, College Credit, Paid Internships*

CONSTRUCTION OCCUPATIONS: STUDENT BUILT HOME

(1 or 2 year program)

- Experience the satisfaction of building an upscale residential home from the ground up
- Operate power tools in carpentry, masonry, plumbing, HVAC, and electrical while working alongside professionals
- Apply critical thinking to manage construction teams and interpret blueprints

R2 *Apprenticeships, Certifications, College Credit*

CONSTRUCTION OCCUPATIONS: LICENSED TRADES

- Get hands-on, real world experience in the licensed trades of plumbing, HVAC, electrical, and solar/renewable energy
- Fast track yourself by attaining the skills and knowledge that lead to success in post-secondary training or direct entry into the workforce
- Engage in hands-on activities used in residential, commercial, and industrial settings

R2 *Career Experiences, Certifications, College Credit*

DIESEL TRUCKS AND ENGINE TECHNOLOGY

(1 or 2 year program)

- Diagnose, repair, overhaul, and assemble diesel-powered engines for trucks, trains, and power generation equip
- Utilize the same advanced equipment as industry professionals in this high-demand, high-paying field
- Network with local employers and training programs

R2 *College Credit, Certifications, Competitions*

R1 = Rigor Level 1; opportunity to earn industry credentials

R2 = Rigor Level 2; R1 + opportunity to earn college credits

R3 = Rigor Level 3; R1 + R2 + college level curriculum

Northeast Metro 916 Career & Tech Center 2023-24 Programs

(All programs eligible for high school elective credit. Certifications/credentials and college credit dependent on program specific criteria.)

HUMAN SERVICES

CAREERS IN EDUCATION

- Do you want to be a teacher? Get a head start on college coursework for K-12 teaching
- Engage in your local community school with classroom field experience hours
- Prepare to make a difference in the lives of students through multiple approaches to teaching and learning

R3 *College Credit, Certifications, Field Experience*

COSMETOLOGY: GENERAL

(1 or 2 year program)

- Express individual creativity by providing a wide range of artistic hair, nail, and skincare services using the latest technology, trends, and name-brand products
- Network with guest speakers and industry connections
- Work in a simulated full-service salon and spa while performing services according to industry standards

R2 *MN Cosmetology Board Hours, Portfolio, Scholarships*

COSMETOLOGY: NAIL TECHNOLOGY AND ESTHIOLOGY (SKIN)

(1 or 2 year program)

- Grow your ability to care for, repair, and beautify skin with salon quality products
- Express/develop your creativity/skills in nail design and extension using builder gel, acrylic, and dip systems
- Jumpstart your career with skills to perform eyelash extensions, tinting, perming, facials, body scrubs, waxing and makeup

MN Board Nail Tech or Esthetician License, College Credit,

R2 *MN Cosmetology Board Hours*

CRIMINAL JUSTICE AND LAW ENFORCEMENT

- Make a difference by being entrusted to improve community relationships and protect citizens
- Engage in police ride-alongs, auto extrications, and community involvement
- Explore how state and federal laws work to keep people safe and analyze the causes and effects of criminal behavior

R3 *Field Experiences, College Credit, Scholarships*

AGRICULTURE, FOOD, & NATURAL RESOURCES

ANIMAL SCIENCE & NATURAL RESOURCES

(1 or 2 year program)

- Help animals, the environment, and your community through in-depth exploration of animal and plant sciences
- Experience animal genetics, nutrition, first aid and health care, with live animals, modeling, and simulations
- Jumpstart a career in Minnesota ecosystems: water, soils, forestry, and wildlife.

R2 *College Credit, FFA, Field Experience*

BUSINESS MANAGEMENT & ADMINISTRATION

ENTREPRENEURSHIP, TRAVEL, AND SOCIAL MEDIA MARKETING

- Be the boss, develop an entrepreneurial spirit, and build your own business
- Tell a story of branding and promotion through video and podcast mediums
- Design, prototype, and launch advertising sales and public relations campaigns for a wide range of products including travel

R2 *College Credit, Career Experiences, Scholarships*

HOSPITALITY CAREERS: INTRODUCTION

(grade 10 and up)

- Create the perfect guest experience by gaining valuable skills for careers such as hotel front desk, housekeeping, customer service, retail, catering, and transportation
- Explore a variety of entry level careers in hospitality through engaging activities and guest speakers
- Network with local employers in this fast-paced high-demand career pathway

R1 *Scholarships and Field Experiences*

EXPLORATION & ENRICHMENT

MENTOR CONNECTION: HONORS

- Connect your passion to relevant career fields, sharpen your focus, and develop a deeper understanding of what it takes to succeed
- Collaborate with a personal mentor and network with professionals in your field
- Create a portfolio and develop an early professional reputation showcasing your interests

R3 *Honors Distinction, Field Experience, Scholarships*

PRACTICAL ASSESSMENT EXPLORATION SYSTEM (PAES) PLUS

(grade 9 and up)

- Get a head start after graduation by learning basic career and life skills in a simulated work environment
- Practice your job-hunting skills like writing a powerful resume, nailing the application, and participating in mock interviews
- Develop banking and money skills that lead to success in independent living

R1 *Certifications, Scholarships, Professional Skills*

How to Register

Students interested in attending courses at 916 Career and Tech must register through their counselor at their home school. For more information, visit www.916careertech.org



R1 = Rigor Level 1; opportunity to earn industry credentials
R2 = Rigor Level 2; R1 + opportunity to earn college credits
R3 = Rigor Level 3; R1 + R2 + college level curriculum



North High School

2416 East 11th Avenue ■ North St. Paul, MN 55109

Main Office: 651-748-6000

Activities Office: 651-748-6020

North Website: www.isd622.org/north

District Website: www.isd622.org