

RAIDERS



L.E.A.D.

Leadership | Excellence | Adaptability | Development

**Northfield High School
2025-26
Course Registration
Guide**



2025–26 COURSE REGISTRATION GUIDE

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NORTHFIELD HIGH SCHOOL PROFILE

ABOUT OUR SCHOOL

Located 40 miles south of Minneapolis, Northfield High School is a 9–12 public school serving approximately 1,300 students. Also located in Northfield are Carleton College and St. Olaf College. We offer an incredible array of opportunities for a school of our size and are proud to be among the top schools in Minnesota in a variety of categories, including National Merit Scholarship recognition, Minnesota Comprehensive Assessment scores, ACT scores and Advanced Placement offerings and scores. Our school year is on a semester schedule with school days divided into seven periods - each approximately 50 minutes in length - and one FLEX period - 60 minutes in length.

FACULTY

Over seventy percent of our licensed faculty members hold a master’s degree or higher.

CURRICULUM

NHS students choose from a wide array of courses in art, business, English, family and consumer science, agriculture, food, natural resources and technology education, math, music, physical education, science, social studies, wellness and world languages.

CO-CURRICULAR ACTIVITIES

Northfield High School students are engaged in a wide array of co-curricular activities including athletics, academic activities, music and theatre, and a wide variety of clubs. Approximately 85% of Northfield students take part in these activities where leadership development is emphasized. Student Council, LINK, RALIE, Captain’s Training and National Honor Society are just a few examples of the student leadership programs at our school.

HONORS AND ADVANCED ACADEMICS

Honors / Advanced Courses

Advanced English 11
Advanced English 10
Advanced English 9
Foundations for A.P. Sciences
Honors Algebra 2
Honors Art

Advanced Placement and Concurrent Enrollment* Courses for 2025-26

3-D Art and Design	Literature & Composition
Advanced English 11*	Physics C-Mechanics
Biology	Psychology
Calculus AB	Public Speaking*
Chemistry	Spanish Language
Composition 101*	Spanish 4 & 5*
Economics (Macro)	Statistics
Environmental Science	U.S. Gov’t & Politics
German Language	U.S. History
German 4*	World History

Advanced Placement Exams 2024

2024 Exams	Total Exams	Average Score
Biology	41	3.54
Calculus AB	36	3.47
Chemistry	51	3.04
Computer Science A	<10	4.33
Environmental Science	27	3.26
French Language	<10	2.67
German Language	10	2.70
Literature & Composition	22	4.00
Physics 1	45	2.82
Psychology	84	3.01
Spanish Language	21	3.19
Statistics	55	3.76
U.S. Gov’t & Politics	18	3.11
U.S. History	33	3.15
World History	161	3.10

ACADEMIC PERFORMANCE

ACT Average Scores

Year	Tested	English	Math	Reading	Science	Composite
2023	319	21.7	22.5	23.8	23.5	23
2022	284	20.4	20.9	22.9	22.3	21.7
2021	288	20.1	22.4	22.4	22.7	21.8
2020	299	20.5	21.9	22	22	21.7
2019	337	21.6	22.3	22.3	22.3	22.3

National Merit Recognition

Class of	Semi-Finalist	Commended	Total
2024	2	4	6
2023	1	1	2
2022	0	3	3
2021	1	2	3
2020	1	9	10

Class of 2024 Sixth Semester Weighted GPA Distribution

Median	4.0 +	3.75–3.99	3.5–3.74	3.25–3.49	3.0–3.24	2.75–2.99	2.5–2.74	2.25–2.49	2.0–2.24	1.75–1.99	<1.75
3.436	5	87	46	29	37	25	18	15	17	11	10

CLASS OF 2024 POSTSECONDARY PLANS

GRADUATES: 295

FOUR-YEAR COLLEGE: 61%

TWO-YEAR COLLEGE: 15%

ROTARY EXCHANGE BEFORE COLLEGE: NA

MILITARY: 3%

WORK: 6%

GAP YEAR/OTHER: 15%

American University (1)
 University of Arizona (1)
 Augustana University (4)
 Bethel University (2)
 Carleton College (2)
 University of Central Missouri (1)
 Chippewa Valley Technical College (1)
 Clark University (1)
 College of St. Benedict (2)
 College of St. Scholastica (1)
 Colorado College (3)
 Colorado State University (1)
 Concordia College Moorhead (3)
 Concordia University - St. Paul (3)
 Cornell College (1)
 Dakota County Technical College (7)
 University of Dubuque (1)
 Dunwoody College of Technology (2)
 Gonzaga University (1)
 Grand View University (1)
 Grinnell College (2)
 Gustavus Adolphus College (8)
 Harvey Mudd College (1)
 Inver Hills Community College (2)
 University of Iowa (1)
 Iowa State University (10)
 Juniata College (1)
 Keene State College (1)

Kenyon College (2)
 Lake Forest College (2)
 Lake Superior College (1)
 Lawrence University (1)
 Lehigh University (2)
 Luther College (2)
 University of Manitoba (1)
 Michigan Technological University (1)
 Milwaukee Area Technical College (1)
 Minnesota State College Southeast (1)
 Minnesota State University-Mankato (16)
 University of Montana (1)
 Normandale Community College (2)
 University of North Dakota (2)
 North Dakota State University (3)
 Northwestern University (1)
 Oberlin College (1)
 Occidental College (1)
 Ohio State University (1)
 Penn State University (1)
 Pomona College (1)
 Saint Mary's University of Minnesota (1)
 Sarah Lawrence College (1)
 South Central College (5)
 South Dakota State University (3)
 St. Cloud State University (1)
 St. Catherine's University (1)
 St. John's University (3)

St. Olaf College (10)
 University of Minnesota-Duluth (5)
 University of Minnesota-Twin Cities (16)
 University of Puget Sound (1)
 University of San Diego (1)
 University of Sioux Falls (1)
 University of St. Thomas (6)
 University of Wisconsin-Eau Claire (3)
 University of Wisconsin-Green Bay (1)
 University of Wisconsin-La Crosse (2)
 University of Wisconsin-Madison (8)
 University of Wisconsin-River Falls (6)
 University of Wisconsin-Stout (1)
 William & Mary (1)
 Williams College (1)
 Winona State University (5)

ACADEMICS AT NORTHFIELD HIGH SCHOOL

Northfield High School follows a semester schedule with school days divided into seven periods, each approximately 50 minutes in length. Students must be enrolled in a minimum of 6 credits to be considered full-time students. A student may choose up to 7 credits to have a full schedule with no study halls. A year long class is worth 1 credit; a semester class is worth .5 credit. Students who have one study hall for the entire year are enrolled in a total of 6 credits.

COURSE DROP/ADD POLICY

Schedules are difficult to adjust once the master schedule is created that is based on student course requests in the spring. If a scheduling conflict occurs, one or more student-selected alternate courses will be added to student schedules as necessary. If a schedule change is necessary for graduation or in order to carry at least six classes (3.0 credits), students can initiate these changes via email or on the designated schedule change day the week before school begins. Once the school year begins, the only allowed changes will be to drop a class for a study hall if there are seven classes in place or to add a class that is for required graduation credits.

Students who have seven classes on their schedule and drop one in order to take a study hall must do so before the mid-quarter at the start of the semester, which is approximately four weeks into the semester. All other required changes will be complete by the end of the fifth day of the semester. Students may not have two study halls/open hours (Senior Transition, TA) in the same semester. Dropping a course after the deadline results in a failing semester grade for the class.

GRADING SYSTEM

A+/A 4.0	B 3.0	C 2.0	D 1.0	Under the weighted system, all AP course grades only are weighted an additional 25% in GPA points as follows:		
A- 3.667	B- 2.667	C- 1.667	D- 0.667			
B+ 3.333	C+ 2.333	D+ 1.333	F 0			
				A 5.0	B 3.75	C 2.5

GRADUATION REQUIREMENTS

REQUIRED CREDITS

Twenty-three (23.0) credits are required in grades 9–12. Semester courses are worth 0.5 credit; year-long courses are worth 1.0 credit. Required credits are a combination of local and state requirements. State standard requirements supercede credit amount within content areas. Credit distribution is as follows:

Classes of 2026 & 2027

- 16 required credits
 - » English 4 credits
 - » Social Studies 3.5 credits
 - » Math 3 credits
 - » Science 3 credits
 - » Phy. Ed 1 credit
 - » Health .5 credit
 - » Arts 1 credit
- 7 elective credits chosen by individual

Class of 2028 & 2029

- 16.5 required credits
 - > English 4 credits
 - > Social Studies 3.5 credits
 - > Math 3 credits
 - > Science 3 credits
 - > Phy Ed 1 credit
 - > Health .5 credit
 - > Arts 1 credit
 - > Personal Finance .5 credit
- 6.5 elective credits chosen by individual

LIFE BEYOND HIGH SCHOOL

Northfield Public Schools prioritizes equitable opportunities and support for all career and college paths. The admission requirements vary greatly for postsecondary institutions, branches of the military, and potential employers. Each student needs to become familiar with the specific requirements based upon their interests and goals. Students may gather this information by meeting with admissions representatives and military recruiters who visit Northfield High School, researching relevant websites, contacting the institutions or recruiters directly, and/or arranging campus visits. Although admissions standards vary from school to school, listed below are some general credit guidelines to consider.

ADMISSION REQUIREMENTS FOR TECHNICAL SCHOOLS AND/OR COMMUNITY COLLEGES

A high school diploma or GED is the basic admissions requirement. Placement testing may be required. The following high school credits are recommended:

- » English 4 credits
- » Social Studies 3.5 credits
- » Math 3 credits
- » Science 3 credits
- » Electives Electives in areas of interest for potential career

ADMISSION REQUIREMENTS FOR FOUR-YEAR COLLEGES AND UNIVERSITIES

Colleges and universities may have unique grade point average, class rank, standardized test score requirements, and/or may include other factors in admissions decisions. The following high school credits are typically required:

- » English 4 credits (including composition, literature and speech)
- » Social Studies 3 credits (including 1 credit each of U.S. history and geography)
- » Math 3–4 credits (including 2 credits of algebra and 1 credit of geometry)
- » Science 3 credits (1 credit each in biological and physical science, including significant lab experiences)
- » World Language 2 credits of a single world language
- » Electives 1 credit of visual or performing arts

Highly selective colleges and universities expect additional coursework beyond the above minimum credits. Most selective schools prefer at least 4 credits from the core academic areas of English, math, science, social studies, and world language.

REQUIREMENTS FOR MILITARY SERVICE

Students may choose from a variety of military service opportunities:

- » Army » Marines
- » Navy » National Guard Reserve Officer Training Corps (ROTC)
- » Air Force

A high school diploma or advanced degree is the basic academic requirement. Recruits must also pass a physical examination and complete the Armed Services Vocational Aptitude Battery (ASVAB). Contact specific branches of the military for more information.

CAREER & POSTSECONDARY PLANNING RESOURCES

NAVIANCE

Naviance is an online career and postsecondary planning site available to all Northfield High School students and used during CCR. Through this site, students can learn about careers, research colleges, communicate with counselors, and request transcripts. Naviance also provides students free access to Naviance Test Prep, an online ACT prep course. Students can log in at: <http://connection.naviance.com/northfieldsh> and should contact their counselor for log-in help.

NORTHFIELD COUNSELING DEPARTMENT WEBSITE

You may link to the [Counseling Office website](#) via the Student Support link from the Northfield High School home page. Be sure to check the site for updated information on the following: graduation requirements, post-secondary planning, scholarships, course registration guides, standardized test information, and links to additional resources.

NCAA ELIGIBILITY CENTER

The NCAA Eligibility Center verifies all student-athletes' academic and amateur status who wish to compete in Division I or II athletics. Student-athletes must be registered with the NCAA after the completion of 11th grade. The registration process and other important information can be found at their website: [NCAA Eligibility Center](#)

College-bound student-athletes who want to practice, compete, and receive athletically related financial aid during their first year at a Division I or II school need to meet the following requirements:

NCAA DIVISION 1 ELIGIBILITY REQUIREMENTS

For high-school athletes enrolling in college full-time in 2024-25 and beyond:

- Complete 16 core courses using pass/fail grades:
 - English: 4 years
 - Math (Algebra 1 or higher): 3 years
 - Natural/Physical Science (Including 1 year of lab, if offered): 2 years
 - Social Science: 2 years
 - Additional Courses
 - English, Math or Science: 1 year
 - English, Math, Sciences, Foreign Language, Comparative Religion or Philosophy: 4 years
- Core Course Progression: You must complete 10 core courses by the beginning of the senior year or seventh semester. Among these 10, seven must be in the subjects of English, math, or natural/physical science. This is known as the 10/7 rule.
- Earn a core course GPA of 2.3 or higher
- Graduate high school

NCAA DIVISION 2 ELIGIBILITY REQUIREMENTS

For high-school athletes enrolling in college full-time in 2024-2025 and beyond:

- Complete 16 core courses using pass/fail grades:
 - English: 4 years
 - Math (Algebra 1 or higher): 3 years
 - Natural/Physical Science (Including 1 year of lab, if offered): 2 years
 - Social Science: 2 years
 - Additional Courses
 - English, Math or Science: 1 year
 - English, Math, Sciences, Foreign Language, Comparative Religion or Philosophy: 4 years
- Earn a core course GPA of 2.2 or higher
- Graduate high school

Check with the NCAA school you plan to attend regarding whether standardized test scores are necessary for admission or scholarship requirements. Division III colleges and universities set their own admission standards. The NCAA does not set initial eligibility requirements in Division III.

ACADEMIC SUPPORT

NHS INTERVENTION DESCRIPTORS

Every week, a team of staff at Northfield High School reviews data to determine which students are showing a need for intervention support. As those students and their needs are identified, they are being matched with the interventions that best suit those needs.

As we progress through the year, the intervention “net” will be cast under as many struggling learners as possible, with the goal of providing the support that all students need to be successful. In each case, we’ll be letting students know what we’ve discovered, and what we’re going to do about it. In some cases, it will mean providing support during a study hall period; in other cases, it might mean trading an elective for an intervention that we are confident will, in the long run, benefit the student far more significantly. In all cases, we’ll be acting in the student’s best interest as a learner and a contributing citizen of our community and society.

The following are the current interventions into which eligible students will be placed through this process:

Structured Study Center: This is a supported study hall that has fewer than 15 students. Students are considered for placement in a SSC when they have grades of D or F for any core course in the most recent grading period. The teachers in the SSC work with the student to identify and prioritize outstanding coursework, to check and monitor grades weekly and to provide an environment where the student can maximize productivity. Students may be scheduled out of SSC at quarter time when their grades are all at a C level or better and in consultation with the SSC teacher. As with a regular study hall, the student does not earn credit in a SSC.

On Course: This is an intervention study seminar with a limited number of students designed to develop student skills such as organization, planning, prioritization, attention, focus, and motivation. Students are identified for the for this intervention who may be at risk for continuing to fail academic classes based on previous academic performance and/or attendance. In this credit-bearing course, students participate in brief lessons designed to build skills and develop strategies for monitoring and organizing their work, and use the rest of the class period to complete coursework. Students earn an elective credit for this class.

ADSIS: Alternative Delivery of Specialized Instructional Services (ADSIS) is designed for students who are struggling to make progress towards grade level standards in reading and math. The goal of the program is to teach specific skills to help remediate the learning concern, so that they will be able to fully participate and make progress in all subjects taught in school. Students must meet eligibility for the ADSIS program with Northfield High School and are determined to be eligible for ADSIS services based on the following data sources: 25% or below on one or more MAP Reading or MCA - III tests. ADSIS services cannot start without written permission, students’ progress in the program is monitored and reported quarterly, and if the student also receives EL services, the school will coordinate these programs to insure students receive appropriate grade level instruction. ADSIS Intervention Services are provided in a manner that best meet the students’ needs and may include pull out classes, in class support, or computerized instruction. ADSIS service is delivered individually and in the following courses:

Reading Strategies is a course offered each semester. It is part of Northfield High School’s Multi-Tiered Systems of Supports (MTSS) and an Alternative Delivery of Specialized Instructional Services (ADSIS) class. The goal of Reading Strategies is to improve basic reading skills. Therefore, the class focuses on the development of comprehension, vocabulary, fluency, and content literacy skills.

ADSIS Math is for students in grade 9 and in grade 10 who meet the entrance criteria for ADSIS Math. Those students are scheduled for a supplemental math class that alternates with a study hall. The ADSIS Math curriculum is Imagine Math, which is computer-based, rigorous, and rooted in state math standards. It is adaptive to the student's individual needs and rate of progress. ADSIS Math lessons are supported by an ADSIS Math teacher who assists with generalizing the developing math skills to the competencies of the student's regular math class.

ENGLISH LEARNER (EL) SERVICES

Students who have not yet developed academic English proficiency in their ability to speak, listen, read and/or write, may be eligible for EL services. The goal of EL services is to teach students academic English so that they will be able to fully participate in all classes and subjects taught in school.

EL Service Models

Push-In EL Services: EL and classroom teachers work collaboratively within the mainstream classroom. Although responsibility for instruction is shared, the classroom teacher is primarily responsible for the subject material to be taught, while the EL teacher is responsible for addressing the unique needs of the English Learners, focusing on the vocabulary, language structure, and background knowledge needed to actively engage in the curriculum.

Sheltered Instruction: The EL teacher provides instruction in a specific subject area (i.e., History, Social Studies, Health, etc.), using linguistic supports appropriate to students' language proficiency level, while maintaining the integrity or rigor of the subject matter.

Criteria and additional information regarding EL services can be found on the District website.

SPECIAL EDUCATION

Northfield High School offers special education classes for students identified as having a specific learning disability, emotional and/or behavioral disorder, mild to severe cognitive disorder, autism spectrum disorder, language impairment, visual impairment, deaf or hard of hearing, and other health impairments. Various testing criteria must be met to qualify for these programs. All students in any of these classes have gone through a process and are currently on an active IEP (Individualized Education Program). The Special Education Department offers a variety of classes designed to meet the individualized needs (reading, writing, math, communication, behavior, social, organization, study, as well as life and work skills development) of students receiving services through their Individual Education Plans (IEP). Students will be registered for these classes based on the documented services in their IEPs by their IEP case managers.

Additionally, transition planning becomes a part of a student's IEP during grade 9. In planning what type of transition services a student needs to prepare for adulthood, the IEP Team considers the following areas: post-secondary education and training, employment and independent living. The transition services themselves are a coordinated set of activities that are based on the student's needs and that take into account his or her preferences and interests. Transition services can include instruction, community experiences, the development of employment and other post-school adult living objectives, and (if appropriate) the acquisition of daily living skills and a functional vocational assessment.

DUAL CREDIT OPPORTUNITIES

Dual Credit Opportunities are academic options that allow students the potential to receive both high school and college credit for a given course or program of study. NHS Staff have prepared a one page overview of all credit pathways offered at Northfield High School. This section expands on all dual credit options.

ADVANCED PLACEMENT (AP)

AP courses are available in six academic departments (English, Math, Science, World Language, and Social Studies). Some AP courses have prerequisites and some do not. It is important to understand that each course is different, and it is important that students find courses that are the right fit for their capacity and interests. These courses are taught at a different pacing than regular and advanced/honors courses; they are college level courses and are intended to be challenging for high school students. Students have the option to take an accompanying AP exam in May to determine a student's proficiency in the subject matter. AP courses require students to do research, reading, and/or writing outside of class—and many students participate in study groups or tutoring sessions to stay on track. It is important for students and parents to think about the amount of work students will have so they can succeed in the courses they choose.

NHS AP Courses:

- » AP Literature & Composition
- » AP Statistics
- » AP Calculus
- » AP Chemistry
- » AP Physics
- » AP Environmental Science
- » AP Biology
- » AP Macro Economics
- » AP U.S. Gov't & Politics
- » AP United States History
- » AP World History
- » AP Psychology
- » AP German 4 and 5
- » AP Spanish Language

Earning college credit: It is up to each college/university to determine if college credit and/or advanced course placement will be awarded. A score of 3 or higher on an AP exam can potentially earn students college credit and/or placement into advanced courses in college, at the discretion of the postsecondary institution the student chooses to attend. More information about the AP program is available at: www.collegeboard.com

CONCURRENT ENROLLMENT COURSES

In partnership with Minnesota State University - Mankato, this is a dual enrollment program in which students who successfully complete a course receive college and high school credit. University or college credit is awarded to students who successfully meet the standards of both the high school and college course. Courses are taught on campus at NHS by NHS teachers who partner with a Mankato instructor.

NHS Concurrent Enrollment Courses in 2025-26:

- » Advanced English 11
- » Comp 101
- » Public Speaking
- » World Language Courses at upper levels
- » Possibly AP Psychology

Earning college credit: Students receive both high school and college credit for these classes. College credit is earned with a grade of C- or better. The course grade will appear on both the high school and college transcripts. The student's postsecondary institution ultimately determines how PSEO credits will be accepted/acknowledged/accounted for. Students must apply first to Mankato, and will be admitted if they meet one of the following.

As a high school senior:

- Rank in the top 50% of your high school class OR;
- Cumulative GPA of at least 3.0 (on a 4.0 scale) OR;
- Achieve a 21 or higher composite score on the ACT exam (with satisfactory GPA)

As a high school junior:

- Rank in the top 33% of your high school class OR;
- Cumulative GPA of at least 3.3 (on a 4.0 scale) OR;
- You achieve a 24 or higher composite score on the ACT exam (with satisfactory GPA)

SENIOR HONORS PROGRAM

Through an agreement with St. Olaf College and Carleton College, Northfield High School seniors have the opportunity to enroll in lower-level college courses at no cost to the student.

- » Each college has a specific application process. Application forms are available through the Counseling Office to students in late spring of their junior year. During the summer, students will be informed of the college's decision and given instructions on how to register for classes.

Earning college credit: Students who intend to use a Senior Honors course to meet a specific graduation requirement should check with their counselor in advance to ensure that the class is applicable. Administrative approval is required prior to the start of these courses. Students receive both high school and college credit for these classes. The course grade will appear on both the high school and college transcripts. Whether or not that credit can be transferred to a student's postsecondary institution is up to that institution.

COLLEGE LEVEL EXAM PROGRAM (CLEP)

The College-Level Examination Program (CLEP) gives students the opportunity to receive college credit by earning qualifying scores on a variety of examinations. More information is available at: www.collegeboard.org

OTHER NHS POTENTIAL DUAL CREDIT COURSES

TORCH students may be potential candidates for this, and TORCH coordinators will initiate the process with students.

POSTSECONDARY ENROLLMENT OPTIONS (PSEO)

The following is language found on the MN Department of Education website. The most up to date information can be found here: <https://education.mn.gov/MDE/fam/dual/pseo/>

PSEO is a dual credit program that allows 10th-, 11th- and 12th-grade students to earn high school and college credit tuition free, through enrollment in and successful completion of college courses taught by college instructors. With traditional PSEO, these courses are generally offered on the campus of the postsecondary institution; some courses are offered online. Each participating college and university setting their own requirements for enrollment into the PSEO courses and programs.

High school students may attend PSEO courses either part-time or full-time during the fall and spring academic school year; the PSEO program is not available during the summer, unless the student is enrolled in a State-Approved Alternative Program (SAAP). Tuition, fees and textbooks related to the course are provided at no cost to the student.

There is no charge to PSEO students for tuition, books or fees for items that are required to participate in a course; however, students may incur fees for equipment that becomes their property when the course or program is completed or for textbooks that are not returned to the postsecondary institution according to their policies.

For more information about PSEO, visit the PSEO Program Page for Students and Families. If you have specific questions about the PSEO Program, contact mde.postsecondary@state.mn.us.

Choosing to Participate

The decision to participate in PSEO is an important one, and students should start planning early. The student will be expected to be a responsible, self-starting independent learner. Students and parents should seek out additional information and counseling at the high school and at the postsecondary institution to ensure that they are making the best choice for themselves and their educational future.

Students and parents should consider the following:

- High School Graduation Requirements: Students should meet with their high school counselor and review the courses needed to graduate. Enrollment in an incorrect PSEO class or failing a PSEO course could result in delayed high school graduation, so careful planning and communication with the high school is very important.
- Academic Ability: Is the student ready for college-level course work? It is important to remember that a student is generating a permanent college transcript. Courses and grades earned through PSEO cannot be expunged or re-taken for a higher grade.
- Maturity: Is the student mature, responsible and self-disciplined enough to be successful in a college setting? This includes navigating the campus and student learning system as well as time-management skills and self-advocacy. Postsecondary institutions do not communicate directly with parents. Most of the time, college instructors are unaware which students in their classes are current high school students.
- Scheduling and Transportation: Will the student be able to manage schedules at two locations and have the transportation means to get to each location?

How to Apply

Talk to the high school counselor.

Students should consult with their high school counselor about their interest in postsecondary courses and which requirements are still needed for graduation. Counselors can help students come up with a plan.

Inform your District/School of your Intent to Enroll by May 30 and October 30

Public school students are required to inform their district of their intent to enroll in PSEO courses during the following school year by May 30 (for fall enrollment) and October 30 (for spring enrollment). If public school students do not notify the enrolling district by May 30 or October 30 and the enrolling district does not waive this deadline on the PSEO Notice of Student Registration, the family may be responsible for the postsecondary tuition expense.

Be aware of postsecondary admissions requirements and deadlines.

It is the postsecondary institution that determines admissions requirements into their postsecondary courses – not the high school. Postsecondary institutions also set their own application deadlines and timelines for admission. For example, fall semester application deadlines range from April-June the previous academic year, while spring semester application deadlines range from October-December.

Many postsecondary institutions create admissions guidelines for PSEO students based on class rank, GPA and/or specific score minimum on a nationally standardized, norm-referenced test (like the ACT, PSAT or SAT).

Most schools allow an appellate process for students who do not meet those criteria; in general, students must provide documentation or proof of their readiness and ability to perform college-level work, as determined by the postsecondary institution. In addition to program admissions requirements, students need to meet the college course prerequisites.

Discuss and determine transportation options.

Districts are not obligated to provide transportation for PSEO students between the high school and the postsecondary institution. However, funds are available to help pay transportation expenses for PSEO students whose families are at or below the poverty level, as determined by the federal government, to participate in PSEO courses on college campuses. For more information, contact pupiltransportation.mde@state.mn.us.

Decide where to enroll – and which courses to take.

There is no list of available PSEO courses available across the state. Students should locate the list of PSEO courses offered by the postsecondary institution where they would like to enroll. Refer to the list of PSEO Participating Institutions approved to offer PSEO in Minnesota; most of these institutions have their own PSEO webpage and contact information for PSEO coordinators on the college campus. These contacts can help families navigate the admissions process, find or explain classes and schedules, and provide general information. Many colleges offer PSEO orientation nights or informational sessions. Participation in PSEO is based on space availability in the desired course.

GRADUATION REQUIRED COURSES

- **ARTS**
- **ENGLISH**
- **MATH**
- **PHYSICAL EDUCATION AND HEALTH**
- **SCIENCE**
- **SOCIAL STUDIES**

 Dual Credit Opportunity

GRADUATION REQUIRED COURSES


ARTS

1.0 Arts credit required for graduation. Course descriptions for all courses listed below can be found in the Areas of Interest section of this guide (page 39).



ACADEMIC DEPARTMENT	COURSE TITLE	CREDITS
Art	Art Foundation	0.5
Art	Drawing & Painting I	0.5
Art	Drawing & Painting II	0.5
Art	Clay – Potter’s Wheel I	0.5
Art	Clay – Potter’s Wheel II	0.5
Art	Clay - Potter’s Wheel III	0.5
Art	Sculpture	0.5
Art	Watercolor Painting I	0.5
Art	Watercolor Painting II	0.5
Art	Graphic Design & Illustration	0.5
Art	Art Exploration	0.5
Art	Filmmaking	0.5
Art	Printmaking	0.5
Art	Photography	0.5

ACADEMIC DEPARTMENT	COURSE TITLE	CREDITS
Art	AP 3-D Art & Design	1
Art	Honors Art	0.5
Music	Symphonic Band	1
Music	Philharmonia Orchestra	1
Music	Symphony Orchestra	1
Music	Cantabile	1
Music	RaiderKor	1
Music	Uno Vox	1
Music	Concert Choir	1
Music	Concert Band	1
Music	Camerata (Orchestra)	1
Music	Jazz Band	1
Music	Music Theory	0.5

 Look for this symbol in the Areas of Interest section to identify courses that earn credit toward Arts requirements.

ENGLISH

8TH GRADE COURSE	9TH GRADE COURSE	10TH GRADE COURSE	11TH GRADE COURSE	12TH GRADE COURSE
English 8	English 9	English 10	English 11	1.0+ Credit Comp 101 (1.0 credit) Public Speaking (.75) Senior Writing (.5) Senior Literature (.5) World Mythology (.5) Creative Writing (.5)
	Advanced English 9	Advanced English 10	Advanced English 11	AP Lit and Comp (1.0)

4.0 credits required for graduation.

ENGLISH 9

Grade: 9

Length / Credits: 1 year / 1 credit

DESCRIPTION:

English 9 is a yearlong survey course that explores a wide range of texts, including fiction, non-fiction, memoir, drama and poetry. English 9 also introduces skills for expository, research and creative writing throughout the year for a variety of purposes and audiences. Elements of literature and composition learned in English 9 serve as a foundation for all English courses taught at Northfield High School in grades 10-12.

ADVANCED ENGLISH 9

Grade: 9

Length / Credits: 1 year / 1 credit

PREREQUISITES AND SELECTION:

- » Minimum average grade of "A-" in English the previous year.
- » Completion of an application form.

DESCRIPTION:

This course is intended to challenge 9th graders who possess outstanding language arts skills. In addition to the regular English 9 curriculum, this course will offer advanced instruction in literary analysis and writing for a variety of audiences and purposes.

ML LEVEL 1 ENGLISH

Grade: 9, 10, 11, 12

Length / Credits: 1 year / 1 credit

DESCRIPTION:

This course is designed for newer students whose primary language is not English. It focuses on students' development of listening, speaking, reading and writing skills at the entering and beginning levels of language proficiency. Students read a variety of informational articles and short texts to develop

comprehension in English. Students learn vocabulary and study basic English grammar structure. Students also expand their ability to communicate orally in English. Students will receive native language (Spanish) support when applicable.

ML DEVELOPING ENGLISH: LANGUAGE/ CULTURE

Grade: 9, 10, 11, 12

Length / Credits: 1 year / 1 credit

DESCRIPTION:

This course is designed for students whose primary language is not English. It focuses on students' development of listening, speaking, reading and writing skills at the developing level of language proficiency. Students will read a variety of texts and genres. Students will expand on writing simple and complex sentences in present and past tense to compose essays and research papers. Students will orally share opinions and will write and present speeches to the class. Students will receive native language (Spanish) support when applicable.

ENGLISH 10

Grade: 10

Length / Credits: 1 year / 1 credit

DESCRIPTION:

The primary goal is to focus on language as the students become more adept at critical questioning skills and more effective writers and readers of literature. Novels/plays to be read include: *The Crucible*, *The Great Gatsby*, two book club novels, plus additional independent reading projects, essays, introduction to writing research papers, learning effective research skills, short stories, poetry and non-fiction.

ADVANCED ENGLISH 10

Grade: 10

Length / Credits: 1 year / 1 credit

GRADUATION REQUIRED COURSES

PREREQUISITES:

- » If in Advanced English 9: minimum average grade of B and placement by student's Advanced English 9 teacher.
- » If not in Advanced English 9, minimum average grade of A- from the previous year. Student must also submit a reading/writing portfolio and application form.

DESCRIPTION:

The primary goal of this course is to build on the critical thinking, questioning, and writing skills from Advanced English 9. This course will incorporate several contemporary and classic novels from American Literature, continue the development of literary analysis and literary lens essay writing skills, and explore research writing. Novels and plays may include *The Scarlet Letter*, *There There*, *The Awakening*, *The Great Gatsby*, *The Crucible*, and *Their Eyes Were Watching God*. There will be a variety of short stories, poetry and non-fiction that will supplement this list of novels, including introduction to writing research papers and learning effective research skills.

ML NONFICTION ENGLISH

Grade: 9, 10, 11, 12

Length / Credits: 1 year / 1 credit

DESCRIPTION:

This course is designed for students whose primary language is not English. It focuses on students' development of listening, speaking, reading and writing skills at the entering and beginning levels of language proficiency. Students read a variety of informational articles and short texts to develop comprehension in English. Students learn to write simple and compound sentences in present and past tense to write paragraphs and will also learn basic English grammar. Students also expand their ability to communicate orally in English. Students will receive native language (Spanish) support when applicable.

ENGLISH 11

Grade: 11

Length / Credits: 1 year / 1 credit

DESCRIPTION:

In English 11 students work to master benchmarks for reading, writing, speaking, listening, media literacy, and language. Students will study classic and contemporary literature balanced with nonfiction. The major focus is 21st century skill development including critical thinking, communication, collaboration, and creativity. Students examine and compose various types of writing including literary analysis, timed writing, personal essays, and research writing. The students will also deliver grade-appropriate multimedia presentations and access, analyze, and evaluate online and printed information.

ADVANCED ENGLISH 11

Grade: 11

Length / Credits: 1 year / 1 credit

PREREQUISITES:

- » If in Advanced American Lit 10: minimum average grade of B and recommendation of Advanced Am Lit 10 teacher.
- » If in American Lit 10 or enrolls from another school, student must have a minimum GPA of 2.8 and at least a B in previous Language Arts course. In addition, students will complete an application form.
- » This course is a concurrent enrollment course through MSU Mankato. Receiving college credit is determined by student applying, being accepted to, and fulfilling grade requirements as part of Mankato's PSEO program.
 - » Rank in the top 33% of your high school class OR;
 - » Cumulative GPA of at least 3.3 OR;
 - » Achieve a 24 of higher composite score on the ACT exam (with satisfactory GPA)

DESCRIPTION:

This course is designed to expand students' knowledge of the human condition and human cultures, especially in relation to behavior, ideas, and values expressed in works of human imagination and thought. Through study in disciplines such as literature, philosophy, and the fine arts, students will engage in critical analysis, form aesthetic judgments, and develop an appreciation of the arts and humanities as fundamental to the health and survival of any society. Students should have experiences in both the arts and humanities. This is a reading and writing intensive course and will prepare students for future college-level English courses.

★ *Dual credit opportunity*

AP LITERATURE & COMPOSITION

Grade: 12

Length / Credits: 1 year / 1 credit

DESCRIPTION:

AP Literature and Composition is a college-level course that emphasizes the College Board framework of close reading and analysis skills across a wide variety of literature. Students will read extensively and write analytical, reflective, and evaluative essays. Students will be asked to carefully consider each text in its historical and artistic context. Critical reading, advanced writing, academic research, timed writing, and thoughtful discussion skills will be emphasized throughout the course. The course prepares students who may wish to take the AP exam in the spring and be considered for advanced standing and/or college credit at the discretion of the college or university they will attend.

★ *Dual credit opportunity*

COMP 101

Grade: 12

Length / Credits: 1 semester / 1.0 high school credit

PREREQUISITES:

- » This course is a concurrent enrollment course through MSU

Mankato. Receiving college credit is determined by student applying, being accepted to, and fulfilling grade requirements as part of Mankato's PSEO program.

- » Rank in the top 50% of your high school class OR;
- » Cumulative GPA of at least 3.0 OR;
- » Achieve a 21 of higher composite score on the ACT exam (with satisfactory GPA)

DESCRIPTION:

Students in this course may earn college credit through MN State Mankato by passing this class with at least a C-. This course includes curriculum covered in a freshman level English course at Mankato. The main focus of this course is to develop, utilize and analyze a clear and personal writing process while also keeping an electronic portfolio of work. Intensive focus and practice with revision skills, peer review process, and student reflection will drive the work in this class. Students will read texts to support their development as a writer. Students will write a variety of compositions including: Literacy Narrative, Rhetorical Analysis, Research Proposal, and Theory of Writing. The course will also include vocabulary and grammar development.

★ *Dual credit opportunity*

PUBLIC SPEAKING

Grades: 11, 12

Length / Credits: 1 semester / .75 high school credit

PREREQUISITES:

- » English 11 is required for juniors. This class may be taken in addition to English 11, but will NOT replace English 11.
- » This course is a concurrent enrollment course through MSU Mankato. Receiving college credit is determined by student applying, being accepted to, and fulfilling grade requirements as part of Mankato's PSEO program.
- » SENIOR:
 - » Rank in the top 50% of your high school class OR;
 - » Cumulative GPA of at least 3.0 OR;
 - » Achieve a 21 of higher composite score on the ACT exam (with satisfactory GPA)
- » JUNIOR:
 - » Rank in the top 33% of your high school class OR;
 - » Cumulative GPA of at least 3.3 OR;
 - » Achieve a 24 of higher composite score on the ACT exam (with satisfactory GPA)

DESCRIPTION:

Students in this course may earn college credit through MN State Mankato by passing this class with at least a C-. This course is designed to help develop speaking and communication skills. The following is a list of topics that will be explored: speech composition, speech organization, speech preparation, speech delivery, speech evaluation, giving and receiving critical feedback, audience analysis, and style of language.

★ *Dual credit opportunity*

SENIOR WRITING

Grade: 12

Length / Credits: 1 semester / .5 credit

DESCRIPTION:

Seniors will further develop the writing process and product for fiction, creative nonfiction, and nonfiction writing. Students will respond to other writing through independent reading selections during the semester. Students will work on written communication skills in such units as the college application/ scholarship essay (creative nonfiction), the character sketch, short stories, short dramatic scenes, film analysis, career writing and more. Regardless of your future studies or career path, you will leave this course with a greater awareness of and confidence in your role as a writer of many genres.

SENIOR LITERATURE

Grades: 12

Length / Credits: 1 semester / .5 credit

DESCRIPTION:

Novels will be read and studied mostly through small groups/ book clubs. Students will practice active-independent reading strategies, and they will be expected to speak, write, and create based on their reading. Core skills to be taught include reader response, review writing, compare-contrast, interpretive reading, and literary discussion. Students will engage with film and technology to create projects based on novels. This is a reading-intensive course.

CREATIVE WRITING

Grades: 11, 12

Length / Credits: 1 semester / .5 credit

PREREQUISITES:

- » English 11 is required for juniors. This class may be taken in addition to English 11, but may NOT replace English 11.

DESCRIPTION:

This course will allow students to explore their creativity through writing. The curriculum includes assignments such as personal narratives, 1st and 3rd person short stories, and poetry. The class will utilize a writer's workshop model.

WORLD MYTHOLOGY

Grade: 12

Length / Credits: 1 semester / .5 credit

DESCRIPTION:

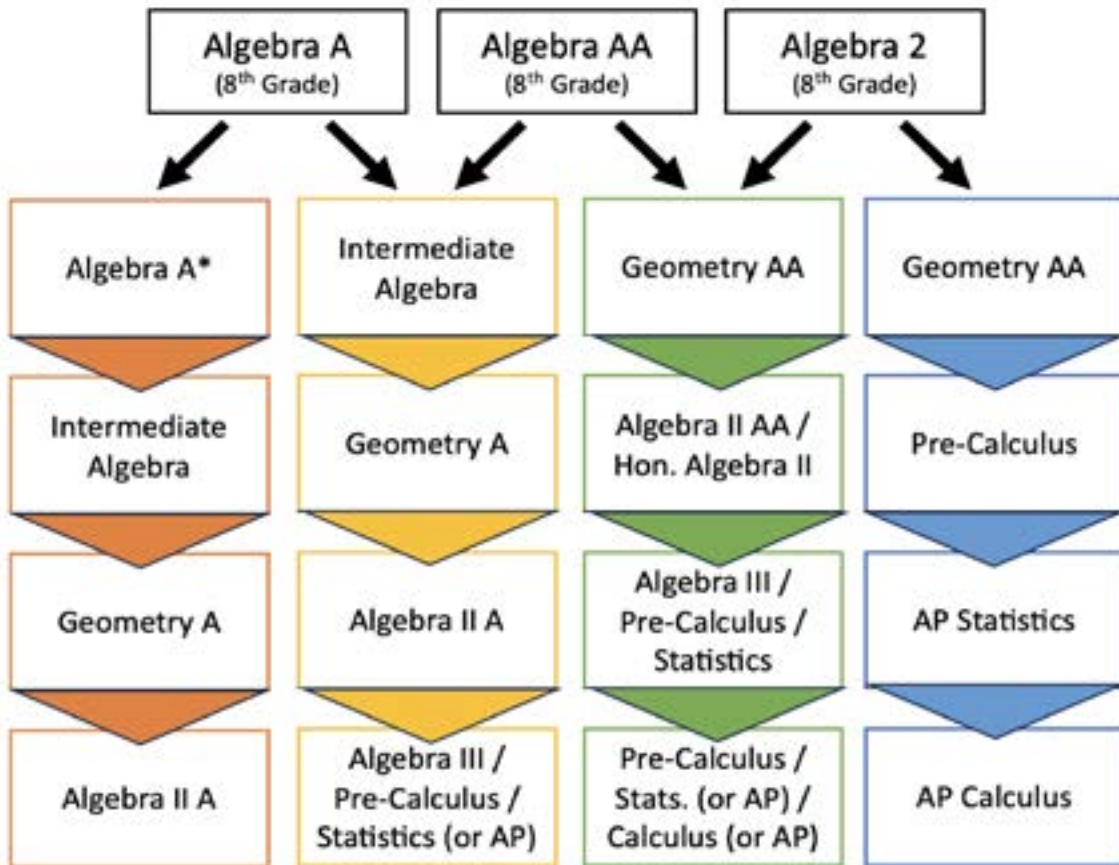
This course will allow seniors to read and interact with the literature of world mythology. The course will look at the mythology of cultures throughout the world and history including Greek, Norse, Egyptian, African, and many others, and how they impact our world today. The study of creation stories as well as the hero's journey will also be a key component of the course. The course is intended for students who may or may not be college bound, but want to develop reading, writing, speaking, and critical thinking skills.

GRADUATION REQUIRED COURSES

MATH

Math course requests and course placement are verified and overseen by the Math Department.

These are the most frequently used progressions through the High School Mathematics curriculum. Students may switch between tracks with approval from their math teacher.



3 math credits are required for graduation. 4 math credits are recommended for many four-year colleges.*

Students MUST earn 1 Geometry credit (Geometry A or Geometry AA) and 1 Algebra 2 credit (Algebra II A, or Algebra II AA, or Honors Algebra 2).

*Algebra A, Computer Programming I, and AP Computer Programming are elective credits and DO NOT count as high school math credits.

CALCULATORS for Math Classes

All Algebra and Geometry Courses: Calculators provided and/or iPad Desmos calculator app allowed. TI-30XIIS or similar scientific calculator suggested for students who wish to purchase their own calculator.

All Pre-Calculus, Calculus, and Statistics Courses: Calculators provided and/or iPad Desmos calculator app allowed. TI-84 Plus or TI-Inspire (Non-CAS) suggested for students who wish to purchase their own calculator.

ALGEBRA A

Length / Credit: 1 year / 1 credit

PREREQUISITES:

- » Algebra A in 8th grade
- » MCA is at or below 839 or grade of C or below in Middle School Algebra

DESCRIPTION:

This course is designed to solidify students' Algebra I skills and begin Algebra II state standards. Topics include linear functions and inequalities, quadratic functions, exponents and radicals, polynomial operations and systems of equations.

INTERMEDIATE ALGEBRA

Length / Credits: 1 year / 1 credit

PREREQUISITES:

- » Intermediate Algebra, Algebra AA (8th grade), or Algebra A (8th grade), or MCA score is equal or greater than 840 and a C+ grade or higher in previous math course, or math teacher recommendation.

DESCRIPTION:

Topics include equations, inequalities, exponents, radicals, linear, quadratic, absolute value functions, and polynomial functions. We explore these concepts using real world applications.

GEOMETRY AA

Length / Credits: 1 year / 1 credit

PREREQUISITES:

- » Students in 8th grade who earned a B or above throughout Algebra AA AND a MCA score equal or greater than 850, or math teacher recommendation.

DESCRIPTION:

Geometry AA is an accelerated class designed for the student who wishes to further their mathematical ability and is planning to take an AP math course during high school. Algebra topics will be reviewed, and geometry topics will include: basics of geometry, geometric proofs, triangle similarity and congruence, right triangle trigonometry, polygons, volume and surface area, and properties of circles.

GEOMETRY A

Length / Credits: 1 year / 1 credit

PREREQUISITES:

- » Completion of Intermediate Algebra, or the recommendation of the previous math teacher.

DESCRIPTION:

Our Geometry course will integrate traditional and coordinate approaches with applications. Algebra is applied throughout. Additional topics include computer-based explorations of 2-D and 3-D figures, three dimensional geometry, real world applications and modeling. A study of probability and statistics will be included in preparation for the MCA and ACT tests.

ALGEBRA II A

Length / Credits: 1 year / 1 credit

PREREQUISITES:

- » Successful completion of Intermediate Algebra. It is also recommended that students take Geometry before taking this course.

DESCRIPTION:

Curriculum will build on topics covered in Intermediate Algebra; additionally, trigonometry, transformations, exponential functions, logarithmic functions, rational functions and probability and statistics will be introduced.

HONORS ALGEBRA II*This course only available by teacher recommendation.*

Grade: 10, 11

Length / Credits: 1 year / 1 credit

PREREQUISITES:

- » A in Algebra AA and Geometry plus the recommendation of previous teacher.

DESCRIPTION:

This course covers the same materials as Algebra II, but moves at a faster pace, studies the topics in greater depth, and includes some additional topics.

GRADUATION REQUIRED COURSES

ALGEBRA II AA

Length / Credits: 1 year / 1 credit

PREREQUISITES:

- » B or better in Geometry, or the recommendation of previous teacher

DESCRIPTION:

This course will further develop a student's algebraic skills. Topics will include first degree equations and inequalities, systems of equations and inequalities, quadratics, transformations, logarithms, continued work with polynomials, and an introduction to trigonometry.

ALGEBRA III

Length / Credits: 1 year / 1 credit

PREREQUISITES:

- » Algebra II A or Algebra II AA

DESCRIPTION:

Students will develop their understanding with topics of trigonometry (right triangles, circular functions, graphs, composite angles, and identities) mathematical modeling, transformations of graphs, conics, sequences and series, solving linear, quadratic, and cubic equations, graphing linear, quadratic, and cubic equations, function notation in a variety of situations, use computers/graphing calculators as a tool for the understanding of mathematical concepts. This course is designed to be a bridge between Algebra II and Pre-Calculus. It is intended to be taken by students who received less than a B in Algebra II and plan to take Pre-Calculus in High School or any Mathematics courses in college.

PRE-CALCULUS

Length / Credits: 1 year / 1 credit

PREREQUISITES:

- » B or better in Algebra II A or Algebra II AA, or recommendation of previous teacher.

DESCRIPTION:

Students will work to have mastery with the topics of trigonometry (right triangles, circular functions, graphs, composite angles, and identities) mathematical modeling, transformations of graphs, conics, sequences and series, solving linear, quadratic, and cubic equations, graphing linear, quadratic, and cubic equations, function notation in a variety of situations, use computers/graphing calculators as a tool for the understanding of mathematical concepts.

CALCULUS

Length / Credits: 1 year / 1 credit

PREREQUISITES:

- » C+ or better in Pre-Calculus and a recommendation from a previous teacher.

DESCRIPTION:

This course is designed for students who desire some exposure to Calculus topics without the rigor of the AP curriculum. The course begins with a review of Pre-Calculus topics needed for Calculus including: Algebraic manipulation, functions (polynomial, circular, exponential, logarithmic, trigonometric) and related topics (domain, range, period, and composition). Topics to be studied will include limits, differential calculus (definition of the derivative, rules for computing derivatives and applications of derivatives). We will explore Integral Calculus as time permits. Students will NOT be prepared to take any Advanced Placement Calculus exam in May. Graphing calculator required.

STATISTICS

Length / Credits: 1 year / 1 credit

PREREQUISITES:

- » C or better in Algebra II A or Algebra II AA

DESCRIPTION:

This is a non-calculus based statistics course which will introduce students to the major concepts and tools for collecting, analyzing, and drawing inferences from data. This course will not require the use of a graphing calculator. Topics include: graphical and numerical techniques to observe patterns and departures from patterns in data, how to plan studies and decide what to measure and how to do it, probability distributions, and statistical inferences. Students will not be prepared to take the Advanced Placement Statistics Exam in May.

ADVANCED PLACEMENT STATISTICS

Length / Credits: 1 year / 1 credit

PREREQUISITES:

- » B+ or better in Pre-Calculus, Honors Algebra II, Algebra II AA or Algebra II A and a recommendation from a previous teacher.

DESCRIPTION:

This is a non-calculus based statistics course which will introduce students to the major concepts and tools for collecting, analyzing, and drawing inferences from data. Extensive use will be made of computers and the graphing calculator and several projects will be given. AP Stats prepares students for the Advanced Placement exam, a qualifying score on which may allow them to be considered for advanced standing and/or credit at the discretion of the college or university they will attend. Topics include: graphical and numerical techniques to observe patterns and departures from patterns in data, how to plan studies and decide what to measure and how to do it, probability distributions, and statistical inferences.

 *Dual credit opportunity*

ADVANCED PLACEMENT CALCULUS (AB)

Length / Credit: 1 year / 1 credit

PREREQUISITES:

- » B+ or better in Pre-Calculus and a recommendation from a previous teacher.

DESCRIPTION:

A review of functions (polynomial, circular, exponential/logarithmic) and topics related to them (domain, range, period, composition, and limits) will begin the year, followed by the study of calculus. Topics to be studied will include differential calculus: definition of the derivative, rules for computing derivatives, (1) polynomial, trigonometric, inverse trigonometric, exponential and logarithmic functions, (2) composite functions, (3) implicitly defined functions; applications of the derivative, and integral calculus: antiderivatives, applications of antiderivatives, techniques of integration, definite integrals, and applications of integrals. Students will be prepared to take the A/B Advanced Placement exam in May. Students have the option to do extra preparation for B/C Exam. Graphing calculator required.

 *Dual credit opportunity*

GRADUATION REQUIRED COURSES

PHYSICAL EDUCATION AND HEALTH

1.0 PE credit required for graduation and .5 Health credit required for graduation.



FOUNDATIONS OF PHYSICAL EDUCATION

Grade: 9 or 10

Length / Credits: 1 semester / .5 credit

All students are required to take one semester of Foundations of PE.

DESCRIPTION:

Foundations of physical education will provide physical activity everyday while emphasizing competence in basic movement skills and promoting social development. Foundations of PE allows students to assess their overall physical health, create personal SMART goals, and work toward those goals while engaging in daily physical activities. Foundations of PE students will gain knowledge and access information to make responsible, healthy choices for lifelong physical health. Activities will include but are not limited to: archery, dance, badminton, nitroball, ultimate frisbee, volleyball, walking, and weightlifting.

HEALTH

Grade: 10

Length / Credits: 1 semester / .5 credit

Required for all students in 10th grade.

DESCRIPTION:

The health course is designed to improve health literacy so that students will demonstrate actions and choices that improve personal health. Students will gain health knowledge and the ability to access reliable information to advocate for the health of themselves, and others.

ELECTIVES

All students are required to take one semester of PE from the selection of courses below after a successful completion of Foundations of PE.

CORE STRENGTH & FUNCTIONAL TRAINING

Grade: 10, 11, 12

Length / Credits: 1 semester / .5 credit

PREREQUISITES:

- » Successful completion of Foundations of PE

DESCRIPTION:

This course is designed for students interested in building core (abdominal) strength and balance. Performance testing and goal setting will be part of the course and instruction will include human anatomy and exercise training principles. Students will participate in a variety of activities including upper body and core strength training, balance training, pillars, medicine ball training, and plyometrics.

MEGA-RECREATION

Grade: 10, 11, 12

Length / Credits: 1 semester / .5 credit

PREREQUISITES:

- » Successful completion of Foundations of PE

DESCRIPTION:

This course is designed for students interested in participating in recreational/leisure sports and activities to maintain or improve their overall wellness. Students will explore and identify recreational/leisure opportunities in the community and surrounding areas. Activities may include: Archery, Badminton, Bowling, Golf, Resistance Training, Tennis, and Ultimate Frisbee, and Walking.

TEAM SPORTS

Grade: 10,11,12

Length / Credits: 1 semester / .5 credit

PREREQUISITES:

- » Successful completion of Foundations of PE

DESCRIPTION:

This course is designed as an elective physical activity course for students interested in team sports. There will be equal emphasis on competitive play, sportsmanship, skill development, and individual improvement. Students will assess their personal fitness levels, set semester goals, and work towards those goals by participating in team sports at Health-Enhancing levels of physical activity. The following sports may be included: Basketball, Flag Football, Nitroball, Floor Hockey, Soccer, Speedball, Volleyball, Angleball, and Team Handball.

WALKING FOR WELLNESS

Grade: 10, 11, 12

Length / Credits: 1 semester / .5 credit

PREREQUISITES:

- » Successful completion of Foundations of PE

DESCRIPTION:

Walking for Wellness is designed for students that prefer low-impact, non-contact physical activity. Students will participate in daily walking (outdoors and indoors), monitor personal wellness data, and learn about lifelong wellness.

GRADUATION REQUIRED COURSES

SAQ 1 (STRENGTH, AGILITY, QUICKNESS) - NEW

Grade: 10, 11, 12

Length / Credits: 1 semester / .5 credit

PREREQUISITES:

- » Successful completion of Foundations of PE

DESCRIPTION:

This course is designed to teach students the fundamentals of strength training, agility, and quickness. Instruction will include effective strategies for improving muscular strength, power, agility, and quickness. SAQ will require the tracking of numbers, evaluation of performance, and goal setting to achieve optimal athletic performance.

SAQ 2 (STRENGTH, AGILITY, QUICKNESS) - NEW

Grade: 10, 11, 12

Length / Credits: 1 semester / .5 credit

PREREQUISITES:

- » Successful completion of SAQ 1

DESCRIPTION:

This course builds from SAQ 1. It will reinforce proper implementation of SAQ programs, workouts, and exercises. This course will allow for student input in programming with exploration of training models/theories to achieve optimal athletic performance.

LIFEGUARD CERTIFICATION & AQUATICS

Grade: 10, 11, 12

Length / Credits: 1 semester / .5 credits

Additional fee to obtain lifeguard certification.

PREREQUISITES:

- » Successful completion of Foundations of PE
- » Students must have successfully passed Red Cross certificate levels 5-7 or demonstrate swimming skills at the below levels.
- » Students should be able to swim the front crawl and breaststroke efficiently, and be able to swim 300 yds. continuously.

DESCRIPTION:

The focus of this class will be in the certification of students in the Red Cross: Lifeguard Training and CPR/First Aid/AED use for the Professional Rescuer. Students will also develop basic skills in swimming strokes and aquatic activities.

The Lifeguard Training & Aquatics class will be held at the Middle School. Students will be responsible to provide their own transportation to and from the Middle School.

ADDITIONAL COURSES

HEALTH SCIENCES:

Health Care Skills and First Aid (page 56)

Sports Medicine Lower Body (page 57)

Sports Medicine Upper Body (page 57)

HUMAN SERVICES:

Sports Psychology, Performance, & Leadership (page 59)

SCIENCE

8TH GRADE COURSE	9TH GRADE COURSE	10TH GRADE COURSE	11TH GRADE COURSE	12TH GRADE COURSE
Science 8	Science 9	Biology	Chemistry, Chemistry in Context OR Physics (one or the other required to graduate)	Chemistry, Chemistry in Context OR Physics (one or the other required to graduate)
	Foundations for AP Sciences (FAPS)	AP Biology	AP Chemistry	AP Physics

3.0 credits required for graduation (1.0 Science 9, 1.0 Biology, and 1.0 Chemistry or 1.0 Physics of any level required)

SCIENCE 9

Grade: 9

Length / Credits: 1 year / 1 credit

DESCRIPTION:

This course employs an exploratory, investigative, and inquiry based approach to study the major interacting components of the earth system: the earth's interior, its rocks and soils, waters, atmosphere, and the fossilized record of the earth. The course also includes investigations of the scale and structure of the universe. Instructors will focus on the national science education content standards and Minnesota Science standards in the earth and space sciences.

FOUNDATIONS FOR ADVANCED PLACEMENT SCIENCES

Grade: 9

Length / Credits: 1 year / 1 credit

DESCRIPTION:

This course, which includes content in earth and space sciences, biology, chemistry, and physics, is designed to provide motivated ninth-grade science students with an academic experience that will facilitate success in the Advanced Placement science courses offered at NHS. This rigorous course will emphasize the concepts, science practices, and laboratory skills that are prerequisite for AP Science classes. The course is fast-paced, so the intended student is committed to timely completion of assigned work, as well as has the ability to learn and study independently. Strong reading, writing, and math skills will contribute to success in FAPS, as well.

GRADUATION REQUIRED COURSES

BIOLOGY

Grade: 10, 11, 12

Length / Credits: 1 year / 1 credit

DESCRIPTION:

Biology is a full year course that is required by the state of MN. This course is designed to introduce students to the following topics: living systems, biochemistry, cellular energy, cycling of matter, population dynamics, structure and function of DNA, genetics and heredity, patterns of evolution, and human impacts on the environment. This course has a heavy lab component, and requires willingness to work in small groups.

ADVANCED PLACEMENT BIOLOGY

Grade: 10, 11, 12

Length / Credits: 1 year / 1 credit

PREREQUISITES:

- » Completion of Foundations for AP Sciences with a grade of "B" or better, or completion of Biology with a "B" or better.

DESCRIPTION:

This advanced biology course is designed to cover topics typically covered in a full-year college introductory biology course and accompanying biology lab. The course will focus on the Big Ideas of information, energy, evolution, and system interactions in accordance with the College Board's AP Biology curriculum. The course will utilize lectures, laboratories, and independent and group work to explore the field of biology. AP Biology prepares students for the Advanced Placement exam, a qualifying score on which may allow them to be considered for advanced standing and/or credit at the discretion of the college or university they will attend.

 *Dual credit opportunity*

CHEMISTRY

Grade: 11, 12

Length / Credits: 1 year / 1 credit

PREREQUISITES:

- » Completion of Algebra A with a "C" or better; and completion of Science 9 or Foundations for AP Sciences.

DESCRIPTION:

The topics of modern chemistry will be covered such as atomic structure, chemical bonding, the periodic table, chemical reactions, and stoichiometry. Nuclear chemistry and methods of analysis will also be included. There will be an emphasis on laboratory work. The course will emphasize mathematical skills needed for college chemistry.

CHEMISTRY IN CONTEXT

Grade: 11, 12

Length / Credits: 1 year / 1 credit

DESCRIPTION:

This course will introduce students to the fundamentals of chemistry including atomic structure, bonding, reactions, solutions, and energy. Students will learn chemistry through applied themes, and chemical phenomena that drive our everyday lives. Students will practice scientific thinking and learn practical laboratory skills.

ADVANCED PLACEMENT CHEMISTRY

Grade: 11, 12

Length / Credits: 1 year / 1 credit

PREREQUISITES:

- » Completion of Chemistry or Foundations for AP Sciences with a grade of "C" or better, and Algebra II with a grade of "B" or better.

DESCRIPTION:

Intended to be the equivalent of a year of introductory college chemistry, AP Chemistry prepares each student to take the advanced placement exam in order to be considered for advanced standing and/or credit at the discretion of the college or university which they eventually attend. Subject areas covered in AP Chemistry include atomic structure, structure of molecules, reactions (types, equilibrium, rates, thermo chemistry), descriptive chemistry, and a variety of intensive laboratory experiences.

 *Dual credit opportunity*

PHYSICS

Grade: 11, 12

Length / Credits: 1 year / 1 credit

PREREQUISITES:

- » Completion of Algebra 1 with a grade of "C" or better and successful completion of Chemistry 9 and Physics 9 or Foundations for AP Sciences.

DESCRIPTION:

This course is designed for students who wish to learn how physics is important in understanding the phenomena that are present in our everyday experience. This conceptual approach, through activities, demonstrations and experiments, will cover the major topics in physics: mechanics, properties of matter, energy, thermodynamics, sound, light, optics, electricity, and magnetism.

**ADVANCED PLACEMENT PHYSICS
(AP PHYSICS C: MECHANICS)**

Grade: 11, 12

Length / Credits: 1 year / 1 credit

PREREQUISITES:

- » Completion of Pre-Calculus with a grade of "B" or better.
- » Simultaneous enrollment in Calculus recommended
- » Completion of Science 9 or FAPS with a grade of "C" or better.
- » Completion of Biology and/or Chemistry or FAPS with grades of "C" or better.

DESCRIPTION:

AP Physics is a college level, calculus based physics course, especially appropriate for students planning to specialize in the sciences or engineering. The course provides a conceptual and mathematical foundation for understanding the physical nature of the universe through lectures, discussions, demonstrations, laboratory investigations and problem solving activities. Topics include: mechanics, dynamics, energy, momentum, torques, and rotational motion. Emphasis will be on the College Board - AP Physics C curriculum framework, in preparation for the examination in May which students may take to be considered for advanced standing and/or credit at the discretion of the college or university which they attend.

 *Dual credit opportunity*

GRADUATION REQUIRED COURSES

SOCIAL STUDIES

8TH GRADE COURSE	9TH GRADE COURSE	10TH GRADE COURSE	11TH GRADE COURSE	12TH GRADE COURSE
	CLASSES OF '27, '26	CLASSES OF '27, '26	CLASSES OF '27, '26	CLASSES OF '27, '26
	CLASSES OF '28, '29	CLASSES OF '28, '29	CLASSES OF '28, '29	CLASSES OF '28, '29
Geography	Early American History 9 and Civics 9 (1.0)	American History (.5)	World History (1.0)	Economics and Global Studies (1.0)
	US History (1.0)	Human Geography (.5)	World History (1.0)	Gov & Pol and Econ (1.0)
		AP United States History (1.0)	AP World History (1.0)	AP Macro Econ and Global Studies (1.0)
		AP Human Geo (1.0)	AP World History (1.0) AP U.S. Gov & Pol .5	AP Macro Econ and AP U.S. Gov & Pol (1.0)

3.5 credits required for graduation.

U.S. HISTORY (CLASS OF 2028 & 2029)

Grade: 9

Length / Credits: 1 year / 1.0 credit

DESCRIPTION:

The required course will begin with the study of the foundations of the United States and continue into the near present. The units will not only cover the mainstream of social, political and economic development, but will also deal with minority history, ethnic contributions and special interest groups and issues. The approach will be chronological and will include tests, writing, projects, small-group work and simulations. The course will introduce students to the narrative but also challenge some preconceived notions about our collective past. Students will be able to practice a number of skills that historians use on a regular basis.

ML U.S. HISTORY

Grade: 9

Length / Credits: 1 year / 1 credit

DESCRIPTION:

This course is designed for students whose primary language is not English (must qualify for ML services). EL Early American History/Civics provides an overview of the history of the United States, surveying the major events and turning points of U.S. history as it moves from America's cultural roots through Reconstruction. This course provides students with a basic understanding of civic life, politics, and government, and a history of government's foundation and development in this country. Students will receive native language (Spanish) support when applicable.

HUMAN GEOGRAPHY (CLASS OF 2028)

Grade: 10

Length / Credits: 1 semester / .5 credit

DESCRIPTION:

Human Geography is the study of humans and their interaction with their surroundings and introduces students to the systematic study of patterns and processes that have shaped human understanding, use, and alteration of Earth's surface. Students use spatial concepts and analysis to examine topics like population, migration, culture, political boundaries, cities, development, agriculture and sustainability. Students will also learn about the methods and tools geographers use in their science and practice.

ADVANCED PLACEMENT HUMAN GEOGRAPHY - NEW

Grade: 10

Length / Credits: 1 year / 1 credit

DESCRIPTION:

AP Human Geography mirrors a typical undergraduate level Introduction to Human Geography course and covers 7 units including: population, political organization of space, agricultural land use, Industrialization and wealth/poverty, and urbanization and urban land use.

In addition to mastering the course content, AP Human Geography prepares students who may wish to take the AP exam in spring to be considered for advanced standing and/or credit at the discretion of the college or university they will attend.

★ *Dual credit opportunity*

ADVANCED PLACEMENT U. S. HISTORY

Grade: 10, 11, 12

Length / Credits: 1 year / 1 credit

** This course may NOT replace U.S. History as a 9th grade requirement. It may only be taken as an additional elective course in grades 10, 11, or 12.

DESCRIPTION:

AP U.S. History focuses on developing students' understanding of American history from approximately 1491 to the present. The course has students investigate the content of U.S. history for significant events, individuals, developments and processes. The course prepares students to be successful on the AP U. S. History exam given in May.

★ *Dual credit opportunity*

WORLD HISTORY

Grade: 11

Length / Credits: 1 year / 1 credit

DESCRIPTION:

World History is a required course for juniors that examines the interactions of human societies from the prehistoric era to the present. The course traces the story of mankind through six different regions including: the Middle East, Europe, Africa, the Americas, Northern Asia, and Southern Asia. Throughout each unit of study an emphasis is placed on historical thinking and writing skills used by historians. Class discussions, simulations, group activities, lectures, podcasts, textbook readings, and films are also incorporated to enhance student learning.

ADVANCED PLACEMENT WORLD HISTORY

Grade: 11

Length / Credits: 1 year / 1 credit

DESCRIPTION:

AP World History is designed to cover topics typically covered in a college introductory world history course. The course will cover world history from 1200 to the present. Students will learn using a digital text, primary source readings, and short themed videos. Class activities will include games, discussions, short projects, and argumentative writing to explore historical topics. Extensive group work is utilized. AP World History prepares students who may wish to take the AP exam in spring to be considered for advanced standing and/or credit at the discretion of the college or university they will attend.

★ *Dual credit opportunity*

GLOBAL STUDIES - HYBRID

Grade: 12

Length / Credits: 1 semester / .5 credit

DESCRIPTION:

Global Studies is a required semester course for seniors designed to study world human geography, land issues, and how human living patterns and movement affect issues concerning the environment and human interactions. This course will examine outcomes using a problem-based learning approach. Students will be experiencing real world situations using current issues, trends, and technology. The hybrid model will involve a varied schedule each week of what days students will be required to report to class and days when the task or assignment may be completed in or out of class. The teacher will always be available for added support and assistance.

GLOBAL STUDIES - TRADITIONAL

Grade: 12

Length / Credits: 1 semester / .5 credit

DESCRIPTION:

Global Studies is a required semester course for seniors designed to study world human geography, land issues, and how human living patterns and movement affect issues concerning the environment and human interactions. This course will examine outcomes using a problem-based learning approach. Students will be experiencing real world situations using current issues, trends, and technology. This traditional model will meet each instructional day on the calendar with a full class. Students who know reporting to class each day is best for them and their learning outcomes are encouraged to sign up for this method of delivery.

ECONOMICS

Grade: 12

Length / Credits: 1 semester / .5 credit

DESCRIPTION:

Economics is a required semester course for seniors. Students will be introduced to "the study of choice" by exploring major microeconomic, macroeconomic, and personal finance principles. Possible questions to explore may include: Why do people make the choices they do? What is the most efficient way for an economy to be structured? How are prices found within an economy? What is money and where does it come from? Such topics will be covered through lecture, film, simulations, independent and group projects, and possible guest speakers.

**ADVANCED PLACEMENT
MACROECONOMICS**

Grade: 12

Length / Credits: 1 semester / .5 credit

DESCRIPTION:

AP Macroeconomics is a semester course offered in the fall consisting of Standard-Level Microeconomics and AP Macroeconomics. In Microeconomics, students will study economic decisions made by individuals and businesses, scarcity, the advantages of trade, economic systems, supply and demand, profit maximization, market structures, and more. In Macroeconomics, students will study our economy as a whole, the business cycle, economic performance indicators, aggregate supply and demand, fiscal and monetary policy, international trade, and more. Topics will be covered through lecture, simulations, film, textbook readings, independent and group projects, and possible guest speakers. The Macro portion of this course prepares students who may wish to take the AP Macro exam in spring to be considered for advanced standing and/or credit at the discretion of the college or university they will attend.

★ *Dual credit opportunity*

GRADUATION REQUIRED COURSES

SPECIAL EDUCATION

MATH FOUNDATIONS 1

Grade: 9-12

Length: 1 year / 1 Credit

DESCRIPTION:

This course strengthens students' foundational math skills. Students will focus on solving real-world word problems, developing functional math skills, understanding basic measurement and fractions, constructing and interpreting graphs, and enhancing their operational skills in addition, subtraction, multiplication, and division. (Ascend Math)

MATH FOUNDATIONS 2

Grade: 9-12

Length: 1 year / 1 Credit

DESCRIPTION:

Math Foundations 2 provides students a solid foundation in algebraic concepts and problem-solving skills. The course is designed as a pre-algebra course to prepare students for Algebra A. The course will cover various topics, including integers, order of operations, algebraic equations, proportions, graphing, and linear equations. (Ascend Math)

MATH FOUNDATIONS 3

Grade: 11-12

Length: 1 year / 1 Credit

DESCRIPTION:

Math Foundations 3 is designed to provide students with the necessary math skills and knowledge to successfully transition from high school to post-secondary education, careers, and independent living. The course will cover various topics, including integers, order of operations, graph reading, percentages, fractions, and decimals, focusing on applying these skills to real-life math applications, including personal finance. (NGPF - Financial Algebra)

ALGEBRA A: CO-TAUGHT

Grade: 9-12

Length: 1 year / 1 Credit

DESCRIPTION:

This co-taught Algebra class taught in the general education setting is designed to solidify students' Algebra I skills, with a particular focus on the following topics: linear functions, inequalities, quadratic functions, exponents, radicals, polynomial operations, and systems of equations. This course takes place in the general education setting, with instruction provided by both a math teacher and a special education teacher.

INTERMEDIATE ALGEBRA: CO-TAUGHT

Grade: 9-12

Length: 1 year / 1 Credit

DESCRIPTION:

See Intermediate Algebra course description on page 19.

MATH SEMINAR

Grade: 9-12

Length: 1 year / 0.5 Credit

DESCRIPTION:

Math Seminar is designed for students with specialized Individualized Education goals who require fewer direct instruction minutes in special education. Students enrolled in this course must concurrently be enrolled in a general education math course. The course aims to provide students with specialized instruction to achieve their specific goals and objectives as defined by their IEP team. This course meets daily for only half the class period. This course is paired with a second seminar course or a study hall.

LANGUAGE ARTS 1

Grade: 9-12

Length: 1 year / 1 Credit

DESCRIPTION:

This course aims to enhance students' functional literacy skills, focusing on decoding, fluency, comprehension, and writing basics. Through a combination of interactive lessons, activities, and assessments, students will develop the necessary skills to effectively engage with various texts and communicate their ideas in written form. (LANGUAGE! Live®1.0)

LANGUAGE ARTS 2

Grade: 9-12

Length: 1 year / 1 Credit

DESCRIPTION:

This course is designed to build on the functional literacy skills developed in Read & Write 1, with the aim of further enhancing students' proficiency in written expression and comprehension. Throughout the course, students will be introduced to a diverse range of fiction and non-fiction texts, expanding their exposure and familiarity with different forms of written expression. By the end of the course, students will have developed a deeper understanding of the key principles of written communication and will be able to effectively express their thoughts and ideas on a variety of topics (LANGUAGE! Live®2.0).

LANGUAGE ARTS 3

Grade: 9-12

Length: 1 year / 1 Credit

DESCRIPTION:

This course is designed to enhance students' reading and writing skills. The curriculum is centered around improving students' ability to comprehend written text and to construct coherent four-paragraph essays. The course has been designed to be an effective transition point between specialized education and general education curricula. Students have particularly benefited from the writing component of the course, which equips them with the necessary skills to write multi-paragraph essays. (READ 180).

LANGUAGE ARTS 4

Grade: 11-12

Length: 1 year / 1 Credit

DESCRIPTION:

This academic reading course is designed to equip students with essential reading and study skills for successful independent college learning. The course includes a textbook and online materials for reading practice of actual college textbooks and academic selections, as well as practical application opportunities. Topics covered include the four-step reading process, vocabulary skills, identifying main ideas, supporting details, patterns of organization, critical reading and thinking, and study skills. The course also offers a career focus area and includes practice for basic writing skills such as sentence structure, email writing, cover letters, resumes, and letter writing.

ENGLISH 9: CO-TAUGHT

Grade: 9

Length: 1 year / 1 Credit

DESCRIPTION:

See English 9 course description on page 15.

LANGUAGE ARTS SEMINAR

Grade: 11-12

Length: 1 year / 0.5 Credit

DESCRIPTION:

Read & Write Seminar is designed for students with specialized Individualized Education goals who require fewer direct instruction minutes in special education. Students enrolled in this course are required to be enrolled in either a general education English course or Read&Write 1-4. The course aims to provide students with specialized instruction to achieve their specific goals and objectives as defined by their IEP team. This course meets daily for only half the class period. This course is paired with a second seminar course or a study hall.

GRADUATION REQUIRED COURSES

THINKING, LEARNING, & COMMUNICATING

Grade: 9-12

Length: 1 year / 1 Credit

DESCRIPTION:

This course is designed to help you learn techniques for emotional regulation, self-regulation, mindfulness, stress management, as well as improve your interpersonal skills. Through a combination of lectures, group discussions, and hands-on activities, you will learn how to identify and manage your emotions, reduce stress, and communicate effectively with others. The course will also teach you how to develop mindfulness techniques, which will help you stay present and focused in the moment. By the end of this course, you will have the skills and knowledge needed to lead a more balanced and fulfilling life, both personally and professionally.

PERSONAL & ACADEMIC SUCCESS

Grade: 9-12

Length: 1 year / 1 Credit

DESCRIPTION:

The Personal and Academic Success course is designed to help students achieve their full potential both inside and outside the classroom. This course covers essential topics including organization, time management, study strategies, self-advocacy, career and post-secondary exploration, coping skills, transition readiness, disability awareness, and executive function skills. Through interactive activities and practical assignments, students will develop the skills to succeed academically and personally by learning how to manage their time effectively, set and achieve goals, advocate for themselves, and develop effective study habits.

SOCIAL COMMUNICATION

Grade: 9-12

Length: 1 year / 1 Credit

DESCRIPTION:

This course focuses on a host of Social Skills and is designed to help students practice their communication and social skills, and learn strategies for dealing with conflicts that arise in day-to-day life. The course will cover a range of topics including idioms, verbal and nonverbal communication, extra-verbal communication, body language, I-language vs. you-language, effective conflict management, active listening, and email etiquette. Through a combination of lectures, group discussions, and hands-on activities, students will learn how to effectively communicate with others, and how to resolve conflicts in a respectful and constructive way.

SECONDARY TRANSITION

Grade: 9-12

Length: 1 year / 1 Credit

DESCRIPTION:

This Secondary Transition course is designed to help students successfully transition from high school to post-secondary education or employment. The course will cover various topics, including career exploration, job search strategies, resume and cover letter writing, interviewing skills, financial literacy, and goal-setting. Through a combination of lectures, group discussions, and hands-on activities, students will learn how to identify their strengths, interests, and skills and how to apply them in a professional setting. By the end of this course, students will have the knowledge and tools needed to successfully navigate the transition from high school to post-secondary education or employment.

LIFE SKILLS SEMINAR

Grade: 9-12

Length: 1 year / 0.5 Credit

DESCRIPTION:

Life Skills Seminar is designed for students with specialized Individualized Education goals, who require fewer direct instruction minutes in special education. The course aims to provide students with specialized instruction to achieve their specific goals and objectives as defined by their IEP team. This course meets daily for only half the class period. This course is paired with a second seminar course or a study hall.

WORK SEMINAR

Grade: 9-12

Length: 0.5 year / 0.5 Credit

DESCRIPTION:

Work Seminar allows students to discover their personal strengths and abilities, understand opportunities available to them in different career areas, and practice skills necessary to excel in the workforce. Emphasis is placed on employee rights/responsibilities and occupational safety and hazard prevention in various work environments. This course also covers the job application process and ends with several mock interview opportunities. This class is a prerequisite to Work-Based Learning Experience.

WORK BASED LEARNING EXPERIENCE

Grade: 10-12

Length: 1 Year / 2 Credits

DESCRIPTION:

Work-Based Learning Experience allows students to expand on their learning from Intro to Work-Based Learning Seminar. Students must pass Intro to Work-Based Learning before entering this class. Work Experience allows students the opportunities to apply the skills and knowledge learned in previous courses with a professional work environment in a field related to their career interests. Students interact with industry professionals to develop postsecondary and career readiness knowledge and skills.

INDEPENDENT LIVING SKILLS

Grade: 9-12

Length: 1 year / 1 credits

DESCRIPTION:

Focuses on learning secondary transition skills in the following areas: exploring structured recreation and leisure activities and hobbies; considering future living settings; developing daily life and independent living skills and self-advocacy skills; finding opportunities to volunteer; exploring community experiences, mentoring, and peer programs.

FUNCTIONAL ACADEMICS

Grade: 9-12

Length: 1 Year / 1 Credits

DESCRIPTION:

Functional academics is merely academics made functional designed to teach skills which allows each student to succeed in real- life situations at home, school, work, and in the community. The key outcome of functional skills is for the student to exercise maximum sense of control, engage in self-directed behavior and autonomy over his /her environment. The Functional Academic course helps teach the essential skills that prepare students for a successful transition into adulthood. It encompasses core subject areas such as functional reading, writing and math. It also includes multi sensory activities that focus on vocational education, community access, daily living, personal finance, independent living, and transportatio

WORLD LANGUAGES

WORLD LANGUAGES

HERITAGE SPANISH 1: SPANISH FOR SPANISH SPEAKERS

Grade: 9, 10, 11, 12

Length / Credits: 1 year / 1 credit

PREREQUISITE:

- » Spanish Speaker

DESCRIPTION:

Do you want to keep up your Spanish language skills and improve them? Do you want to learn how to connect the valuable bilingual skills you have with employment opportunities? This course is conducted entirely in Spanish for any and all native Spanish speakers who would like to strengthen their reading, writing, and grammar skills in Spanish - helping them become truly bilingual. This will be done in many ways - including the use of text, film, television shows, other media, cultural experiences and activities. This course will be interactive and activity-based. Improving these Spanish skills will also improve acquisition of academic English. The class is for World Language credit and it can be a stand-alone class or a launching point for taking other Spanish classes (in consultation with the instructor).

SPANISH 1, FRENCH 1, GERMAN 1

Grade: 9, 10, 11, 12

Length / Credits: 1 year / 1 credit

DESCRIPTION:

Students will learn to communicate in their chosen language. Students will engage with other students to speak, read, write and understand a new language. No prior knowledge is necessary. Come join us for an adventure! Successful completion of level 1 (C or higher) will allow students to progress to level 2. Linguistic skills developed and strengthened in language classes help support students' success in courses across the curriculum.

French addendum - our threshold for running courses is at or about 20 students along with availability of licensed staff to teach the course. If you request French 1, 2, 3 or 4, you MUST have an alternate in place (especially if you want a language).

HERITAGE SPANISH 2/3: SPANISH FOR SPANISH SPEAKERS

Grade: 10, 11, 12

Length / Credits: 1 year / 1 credit

PREREQUISITE:

- » Successful completion of Heritage Spanish 1, or recommended by instructor

DESCRIPTION:

Heritage Spanish 2,3 is intended to continue to strengthen a heritage learner’s reading, writing and grammar skills, helping them to become truly bilingual. As in Heritage Spanish 1, this will be achieved in many ways including the use of text, film, television shows, other media, cultural experiences and activities. In class we will be exploring and experiencing literature through group and individual work. This course will be interactive and activity based. Improving these Spanish skills will also improve acquisition of academic English.

SPANISH 2, FRENCH 2, GERMAN 2

Grade: 9, 10, 11, 12

Length / Credits: 1 year / 1 credit

PREREQUISITES:

- » Students who do not pass the previous semester with a C or above may be removed from the class.

DESCRIPTION:

Students will learn to express themselves and tell stories in their chosen language using the present and past tenses. We will explore language and culture through thematic units, such as Personal Interests, Daily Routine, Food, Vacations, Shopping, and Celebrations. Fun activities are designed to engage multiple learning styles. Linguistic skills developed and strengthened in language classes help support students’ success in courses across the curriculum.

French addendum - our threshold for running courses is at or about 20 students along with availability of licensed staff to teach the course. If you request French 1, 2, 3 or 4, you MUST have an alternate in place (especially if you want a language).

SPANISH 3, FRENCH 3, GERMAN 3

Grade: 10, 11, 12

Length / Credits: 1 year / 1 credit

PREREQUISITES:

- » Students who do not pass the previous semester with a C or above may be removed from the class.
- » German 3 is concurrent enrollment German 101 and 102 with Minnesota State-Mankato.

DESCRIPTION:

In addition to exploring new themes, students will expand on thematic content learned in levels one and two. Because grammatical concepts vary in the level of difficulty within each language, the individual languages will choose grammatical concepts appropriate for this level. This would include a variety of tenses, moods, and advanced grammatical concepts.

French addendum - our threshold for running courses is at or about 20 students along with availability of licensed staff to teach the course. If you request French 1, 2, 3 or 4, you MUST have an alternate in place (especially if you want a language).

Spanish at the High School has two tracks; regular and for those who have been in the District’s immersion program. Those students who have been in the immersion program are expected to continue in the immersion course offerings.

SPANISH 3 PLUS IMMERSION

Grade: 9, 10, 11, 12

Length / Credits: 1 year / 1 credit

PREREQUISITES:

- » Student must have completed Spanish I and Spanish II through the Amistades program with C average or higher or by teacher recommendation and/or student application. Students will be required to speak Spanish.

DESCRIPTION:

Students will hone their spoken and written communication skills by applying the grammar that they have acquired thus far through guided and spontaneous activities. An exploration of thematic units such as, Daily Life, Health/Well being, Travel, Nature, Science/Technology, and Economy/Work will engage all learning styles and promote competency. This class will be taught almost exclusively in Spanish.

WORLD LANGUAGES

FRENCH 4

Grade: 11, 12

Length / Credits: 1 year / 1 credit

PREREQUISITES:

- » Students must have completed French 3 or have other extensive language experience.

DESCRIPTION:

Students will hone their spoken and written communication skills as they engage in an exploration of culture in both contemporary and historical contexts. The course develops students' awareness and appreciation of cultural products (e.g., tools, books, music, laws, conventions, institutions); practices (patterns of social interactions within a culture); and perspectives (values, attitudes, and assumptions). The course is taught almost exclusively in the target language.

French addendum - our threshold for running courses is at or about 20 students along with availability of licensed staff to teach the course. If you request French 1, 2, 3 or 4, you MUST have an alternate in place (especially if you want a language).

SPANISH 4

Grade: 11, 12

Length / Credits: 1 year / 1 credit

PREREQUISITES:

- » Minimum B average in the level III course. Students who do not pass the previous semester with a C or above may be removed from the class.

DESCRIPTION:

Students will expand on thematic content learned in previous levels. The following are also areas addressed across the languages: history and geography, literature/and the arts, media and current events, and travel, grammatical concepts appropriate for this level. This would include a variety of tenses, moods, and advanced grammatical concepts.

★ *Dual credit opportunity: MN State Mankato concurrent enrollment*

Spanish at the High School has two tracks; regular and for those who have been in the District's immersion program. Those students who have been in the immersion program are expected to continue in the immersion course offerings.

SPANISH 4 PLUS IMMERSION

Grade: 10, 11, 12

Length / Credits: 1 year / 1 credit

PREREQUISITES:

- » Completed 3+ Immersion with a B average or higher or by teacher recommendation and/or student application. Student is required to speak Spanish. Students must pass each semester in order to advance to the next semester.

DESCRIPTION:

Students will expand on thematic content learned in levels one, two, and three. In addition, the following are areas addressed across the languages: literature, media and current events, and travel.

MODERN SPANISH FILM STUDY I

Grade: 11, 12

Length / Credits: 1 semester / .5 credit

PREREQUISITES:

- » Students must have completed Spanish IV or Spanish IV + Immersion with a B average or higher or by teacher recommendation and/or student application. Students are required to speak Spanish. If you have not yet watched the series, you will need to watch season 1 prior to the start of the course which can be arranged with the teacher. All instruction and coursework will be done in Spanish.

DESCRIPTION:

This course will follow an intriguing Spanish dramatic series to help students hone their Spanish listening, speaking and writing skills.

MODERN SPANISH FILM STUDY II - NEW

Grade: 11, 12

Length / Credits: 1 semester / .5 credit

PREREQUISITES:

- » Students must have completed Spanish IV or Spanish IV+ Immersion with a B average or higher or by teacher recommendation and/or student application. Students are required to speak Spanish. If you have not yet watched the series, you will need to watch episodes from semester 1 or read episode summaries provided by the teacher prior to the start of the course. Instruction and coursework will be done in Spanish.

DESCRIPTION:

This course will follow an intriguing Spanish dramatic series to help students hone their Spanish listening, speaking and writing skills.

AP GERMAN LANGUAGE AND CULTURE 4

Grade: 11, 12

Length / Credits: 1 year / 1 credit

PREREQUISITES:

- » Students must have completed German 3 or have other extensive language experience.
- » German 4 first semester is concurrent enrollment German 201 with Minnesota State-Mankato.

DESCRIPTION:

Students will hone their spoken and written communication skills as they engage in an exploration of culture in both contemporary and historical contexts. The course develops students' awareness and appreciation of cultural products (e.g., tools, books, music, laws, conventions, institutions); practices (patterns of social interactions within a culture); and perspectives (values, attitudes, and assumptions). The course is taught almost exclusively in the target language.

★ *Dual credit opportunity: MN State Mankato concurrent enrollment*

AP SPANISH LANGUAGE AND CULTURE

Grade: 11, 12

Length / Credits: 1 year / 1 credit

PREREQUISITES:

- » Students must have completed Spanish IV or Spanish IV + Immersion with a B average or higher. All instruction and coursework will be done in Spanish. Students must pass each semester in order to advance to the next semester.

DESCRIPTION:

AP Spanish Language is intended for students who wish to develop proficiency and integrate their language skills using authentic materials and sources. Students will prepare to demonstrate their level of Spanish proficiency across three communicative modes:

- » Interpersonal (simulated conversation, email correspondence)
- » Interpretive (comprehension of audio fragments and text)
- » Presentational (spoken cultural comparison and written persuasive essay)
- » The class is conducted almost exclusively in the target language and geared toward all students taking the AP exam in the spring.

★ *Dual credit opportunity*

AP SPANISH LITERATURE AND CULTURE

Grade: 12

Length / Credits: 1 year / 1 credit

PREREQUISITES:

- » All students must have completed Spanish IV+, V or AP Spanish Language with an average of a B+ or higher. All instruction of the course will be done in Spanish. Students must pass each semester in order to advance to the next semester.

DESCRIPTION:

The AP Spanish Literature and Culture course is designed to introduce students to the formal study of a representative body of literature—written in Spanish—from Spain, Latin America and the United States. The course provides students with ongoing and varied opportunities to develop proficiency in Spanish across a full range of skills, with emphasis on critical reading and analytical writing. It also encourages students to reflect on the many voices and cultures included in a rich and diverse body of literature written in Spanish.

★ *Dual credit opportunity*

AP GERMAN LANGUAGE AND CULTURE 5

Grade: 12

Length / Credits: 1 year / 1 credit

PREREQUISITES:

- » Students must have completed German 4 or have other extensive language experience.

DESCRIPTION:

Students will continue to hone their spoken and written communication skills as they engage in an exploration of culture in both contemporary and historical contexts. The course is taught almost exclusively in the target language. Topics for levels 4 and 5 are on a two-year rotation so that students will not repeat content if they take both courses.

★ *Dual credit opportunity*

AREAS OF INTEREST

➤ **PERFORMING, VISUAL & MEDIA ARTS**

➤ **BUSINESS & CULINARY**

➤ **AGRICULTURE, FOODS, NATURAL RESOURCES & TECHNOLOGY EDUCATION**

➤ **HEALTH SCIENCES**

➤ **HUMAN SERVICES**

➤ **SCIENCE & TECHNOLOGY**



Can be used as a prerequisite



Earn credit towards Arts graduation requirement



Dual Credit Opportunity



May be substituted for course in fulfilling graduation requirements

In a continuing effort to prepare all students to be career and college ready, we encourage all students to explore their interest areas. Arts requirement and elective courses are organized into six areas of interest:

PERFORMING, VISUAL & MEDIA ARTS	BUSINESS & CULINARY	AGRICULTURE, FOODS, NATURAL RESOURCES & TECHNOLOGY EDUCATION
Performance Production and Management Media Production and Recording Publishing and Online Media Creative Design	Accounting and Finance Entrepreneurship and Business Management Culinary and Food Services Marketing and Sales	Agriculture and Animal Science Manufacturing and Fabrication Technologies Engineering and Design Transportation Technologies
HEALTH SCIENCES	HUMAN SERVICES	SCIENCE & TECHNOLOGY
Biomedical Public Health Exercise Science Healthcare	Teaching and Educational Services Law and Legal Services Public Service and Leadership Social and Mental Health Services	Electrical Systems Information Technology Solutions Computer Science Green Energy and Innovative Technologies

The next pages in the guide outline the variety of courses from which students can select. NHS is proud of the level of choice we offer, and we want to help students and families discover the types of courses students may want to pursue in the postsecondary school or plan of their choice and how they relate to future career paths. Courses required for graduation may fit into a number of different career pathways.

OVERVIEW OF THE AREAS OF INTEREST

PERFORMING, VISUAL & MEDIA ARTS

Performance Production and Management / Media Production and Recording / Publishing and Online Media / Creative Design

Arts & Communication fosters creativity, innovation, and expression to support students to become well-rounded individuals who can apply their skills in a number of fields. Career fields include the performing arts, visual arts, design, communications, and publishing.

RELATED CAREERS:

Art Directors, Curator, Stage Manager, Museum and Exhibit Manager, Director, Performer (Musician, Actor), Music Directors and Composers, Audio and Video Technician, Sound Engineer, Producers and Directors, Editors, Writers and Authors, Public Relations and Fundraising Manager, News and Print Media, Journalist, Multimedia Artists and Animators, Interior Designers, Artist and Art Marketer, Graphic Designers

BUSINESS & CULINARY

Accounting and Finance / Entrepreneurship and Business Management / Culinary Arts and Restaurant Management / Marketing and Sales

Business & Entrepreneurship offers students industry-relevant experiences that will allow them to explore business practices, ideas and products that impact local, state, national, and the global economy. Career fields include marketing, sales, finance, hospitality and tourism, management, and entrepreneurship.

RELATED CAREERS:

Accountant, Bookkeeper, Actuary, Insurance Underwriters, Loan Officer, Financial Planner, Tax Preparer, Venture Capitalist, Small Business Owner, Entrepreneur, Business Analysts, Office Manager, Supply Chain Manager, Hotel Management, Event Planner, Tour Operator, Food and Beverage Manager, Executive Chef, Sous Chef, Restaurant Owner, Market Research Analysts, Recruiters, Social Media Marketing Manager, Sale Representatives & Retail Managers, Fundraiser, Media Buyer

AREAS OF INTEREST

AGRICULTURE, FOODS, NATURAL RESOURCES & TECHNOLOGY EDUCATION

Architecture and Construction / Manufacturing and Fabrication Technologies / Engineering and Design / Transportation Technologies/ Agriculture/ Animal Science

Design Engineering is a high-tech, high-skill, high-demand area that will help students gain hands-on training to prepare for a variety of jobs. Career fields include manufacturing, robotics, transportation, design, electronics, architecture, construction, and engineering.

RELATED CAREERS:

Aircraft Mechanic, Aeronautic Engineer, Architect, Building Engineer, Civil Engineer, CNC Machinist, Computer Control Programmer/Operator, Design Electrical Engineer, Engineer, Electrician, Entrepreneur, HVAC Controller, Industrial Engineer, Machinists, Manufacturing Mechanical Engineer, Process Engineer, Packaging Engineer, Process Engineer, Robot Technician, Quality Engineer, Structural Engineer, Tool and Die Maker, Welder

HEALTH SCIENCES

Biomedical / Public Health / Exercise Science / Healthcare

A Health Science education will provide students with the knowledge and skills to pursue a variety of positions within this high-demand career area. Health Science fields include biomedical science, exercise science, health and wellness, nutrition, and healthcare fields.

RELATED CAREERS:

Medical Appliance Technician, Medical and Clinical Lab Technologist, Surgical Technologist, Medical Imaging Technologist, Biomedical Engineer, Forensic Science Technician, Dietetic Technician, Dietitian and Nutritionist, Community Health Worker, Massage Therapist, Fitness Trainer and Aerobics Instructor, Athletic Trainer, Recreational Therapist, Physical Therapist, Occupational Therapist, Massage Therapist, Exercise Physiologist, Pharmacy Technician, Medical Assistant, Healthcare Social Worker, Physician, Physician Assistant, Licensed and Practical Nurse, Respiratory Therapist, Dentistry, Ophthalmology, Surgical and Medical Technician

HUMAN SERVICES

Teaching and Educational Services / Law and Legal Services / Public Service and Leadership / Social and Mental Health Services

Skills students gain in Human Services can be applied across all academic disciplines. Human Services courses encourage students to look beyond themselves to serve others. Career fields include human development, psychology, education legal fields, law enforcement, and public services.

RELATED CAREERS:

Early Childhood Educator, K-12 Teacher, Administrator, Educational Paraprofessional, Training and Development Manager/Supervisor, Police and Sheriff's Patrol Officers, Correctional Officers and Jailers, Attorney, Court Reporters, Paralegal and Legal Assistants, Government Service, Labor Relations Specialist, Firefighter, Military Service, Non-Governmental Organization, Lobbyist, Social and Human Service Assistant, Mental Health Counselors, Health Educators, Clinical, Counseling, and School Psychologist

SCIENCE & TECHNOLOGY

Electrical Systems / Information Technology Solutions / Computer Science / Green Energy and Innovative Technologies

Science & Technology supports students to be critical thinkers and leaders across a number of dynamic industries that rely on scientific and technical skills. The education will reflect the modern needs of employers and prepare students to successfully use skills that will contribute to the betterment of the community. Career fields include investigative science, math, applied science & technology, and computer science.

RELATED CAREERS:

Electrician, Electrical Engineer, Electronics Technician, Electrical Power-Line Installers and Repairers, Power Plant Technician and Operator, Electrical Systems Designer and Drafter, Network and Computer Systems Administrators, Computer Network Architects, Computer Hardware Engineer, Computer Hardware Technician and Repairer, Computer Research Scientist, Software Developer, Computer Systems Analyst, Computer and Information Systems, Computer Programmers, Information Security Analysts, Database Administrators, Natural Sciences Managers, Environmental Engineer, Green Technology and Alternative Energy Designer, Geoscientist & Conservation Scientists, Mining and Geological Engineer

PERFORMING, VISUAL & MEDIA ARTS

Performance Production and Management / Media Production and Recording / Publishing and Online Media / Creative Design

Performing, Visual & Media Arts fosters creativity, innovation, and expression to support students to become well-rounded individuals who can apply their skills in a number of fields. Career fields include the performing arts, visual arts, design, communications, and publishing.

RELATED CAREERS:

- | | | | |
|----------------------------|-------------------------------|--|----------------------------------|
| Art Directors | Performer (Musician, Actor) | Editors | Journalist |
| Curator | Music Directors and Composers | Writers and Authors | Multimedia Artists and Animators |
| Stage Manager | Audio and Video Technician | Public Relations and Fundraising Manager | Interior Designers |
| Museum and Exhibit Manager | Sound Engineer | News and Print Media | Artist and Art Marketer |
| Director | Producers and Directors | | Graphic Designers |

INTRODUCTORY

ART FOUNDATION


Grade: 9, 10, 11, 12


Length / Credits: 1 semester / .5 credit

Academic Department: Art

DESCRIPTION:

Art Foundation is the prerequisite (required course) for all other art classes in the NHS Art Department. For the students, this artmaking class instills a wide variety of creative skills and a basic understanding of art vocabulary. Students will learn new artistic techniques through the use of various materials and assignments, as well as grow artistically through repetition and practice. In this course, students of all ability levels will learn to expand their technical skills, develop their ability to SEE the world through their own artistic eyes, and build a useful awareness of composition and color theory. General artistic knowledge, observational drawing (contour drawing and shading), and painting skills are emphasized.

 This course can earn passing students .5 credit towards Arts graduation requirements.

 This course can be used as a prerequisite for Honors Art.



RAIDERKOR

Grade: 9, 10, 11, 12

Length / Credits: 1 year / 1 credit


Academic Department: Music

PREREQUISITES:

- » None! This is an ensemble for singers of all ability levels. RaiderKor is open to all interested high school bass/tenor voices wishing to learn more about music, singing, and procedures of the NHS Choral Department. Students are expected to commit to RaiderKor for the entire year.

DESCRIPTION:

RaiderKor performs in all four major performances during the year: Fall Concert, Traditions, Choral Classics, and Spring Finale. Additionally, the choir attends bass/tenor festivals as the opportunity arises. Rehearsal time is spent on developing vocal independence, basic choral techniques, musical concepts and development of music literacy (how to read music). Rehearsal time will also be spent on aspects of music listening, appreciation and theory. Choir members attend voice lessons and sectional rehearsals each semester.

 For passing students, this course fulfills the Arts graduation requirements.

CANTABILE (CAHN-TAH-BEE-LEH)

Grade: 9, 10, 11, 12

Length / Credits: 1 year / 1 credit


Academic Department: Music

PREREQUISITES:

- » None! Cantabile is open to all interested treble voices wishing to learn more about music, singing, and procedures of the NHS Choral Department. Students are expected to commit to Cantabile for the entire year.

DESCRIPTION:

Cantabile performs in all four major performances during the year: Fall Concert, Traditions, Choral Classics, and Spring Finale. Rehearsal time is spent on developing vocal independence, basic choral techniques, musical concepts and development of music literacy (how to read music). Rehearsal time will also be spent on aspects of music listening, appreciation and theory. Choir members attend voice lessons and sectional rehearsals each semester.

 For passing students, this course fulfills the Arts graduation requirements.

PHILHARMONIA ORCHESTRA

Grade: 9, 10, 11, 12

Length / Credits: 1 year / 1 credit


Academic Department: Music

PREREQUISITES:

- » Open to all string players. Piano and Harp by special consent with the conductor. Students are expected to commit to the Philharmonia Orchestra for the entire year. Concerts are mandatory.

DESCRIPTION:

The high school Philharmonia Orchestra rehearses for one period each day and is dedicated to the development of string technique using repertoire from all periods. The emphasis in orchestra is to perform well, to enjoy making music, and to have a sense of commitment to the group. Students also study music theory, history and listening techniques during class time. Orchestra is open to all string players, either by successfully participating in orchestra during the previous school year, or by consent of the instructor.

 For passing students, this course fulfills the Arts graduation requirements.

INTERMEDIATE

ART EXPLORATION

Grade: 9 (2nd semester only after Art Foundation), 10, 11, 12

Length / Credits: 1 semester / .5 credit


Academic Department: Art


PREREQUISITES:

- » Art Foundation

DESCRIPTION:

In Art Exploration, students have the opportunity to draw, work with color and try a variety of artistic materials, including clay! Students will experiment with ways to illustrate their ideas and continue to develop more confidence. This course will expand on students' knowledge of color relationships and help students use color media to create unique works of art. Art Exploration begins as primarily a drawing class, and a variety of materials will be used including pen, blendable markers, pastel pencils and charcoal; however later in the semester, students will also use acrylic paint and clay to further develop their ideas and skills. This class is exploratory, FUN and a great class to complete the graduation requirement following Art Foundation.

 This course can earn passing students .5 credit towards Arts graduation requirements.

 This course can be used as a prerequisite for Honors Art.

SCULPTURE


Grade: 9 (2nd semester only after Art Foundation), 10, 11, 12
 Length / Credits: 1 semester / .5 credit
 Academic Department: Art


PREREQUISITES:

- » Art Foundation

DESCRIPTION:

If you like to work with your hands to BUILD this class is for you! Sculpture is an artistic form in which materials are worked into 3-dimensional art objects. In our world we see sculptural designs that are freestanding, relief on walls, and even large scale public art. This course introduces the student to the contemporary sculpture, places where they see sculpture in the world around them, and to variety of materials and processes. We will develop clay handbuilding skills with techniques such as coil and slab construction with relief and applique' surface designs. Other 3D media exploration may include wire, cardboard, plaster, mosaic, and/or found materials. With each assignment, students will have an opportunity to express themselves and expand their 3D artmaking abilities.

 This course can earn passing students .5 credit towards Arts graduation requirements.

 This course can be used as a prerequisite for Honors Art.

CLAY – THE POTTER’S WHEEL I


Grade: 9 (2nd semester only after Art Foundation), 10, 11, 12
 Length / Credits: 1 semester / .5 credit
 Academic Department: Art


PREREQUISITES:

- » Art Foundation

DESCRIPTION:

This first ceramic course teaches students how to make clay pots on the potter's wheel. Students will create everyday functional forms such as bowls, mugs, plates, vases, and jars. Clay objects will be decorated with a variety of surface techniques. Students will also be introduced to a number of glazes that produce different surface effects. Leaving this class, students will understand 3-dimensional artmaking through the creation of work that embodies their own personal ideas and passions. Students will have a treasured collection of pottery when they leave this class that can be used and displayed for a lifetime.

 This course can earn passing students .5 credit towards Arts graduation requirements.

 This course can be used as a prerequisite for Honors Art.

CLAY – THE POTTER’S WHEEL II


Grade: 10, 11, 12
 Length / Credits: 1 semester / .5 credit
 Academic Department: Art


PREREQUISITES:

- » Art Foundation
- » Clay - Potter's Wheel I

DESCRIPTION:

This class is designed for students who have loved Clay - Potter's Wheel I and who would value the opportunity to further develop their pottery making abilities. The class curriculum will teach the following: advanced potter's wheel techniques, unique pottery forms (such as teapots, pitchers, and lidded jars), and exploration of additional glazes and surface decorating techniques.

 This course can earn passing students .5 credit towards Arts graduation requirements.

 This course can be used as a prerequisite for Honors Art.

CLAY – THE POTTER’S WHEEL III


Grade: 10, 11, 12
 Length / Credits: 1 semester / .5 credit
 Academic Department: Art


PREREQUISITES:

- » Art Foundation
- » Clay - Potter's Wheel I and Clay - Potter's Wheel II

DESCRIPTION:

This course will offer students a deeper dive into their understanding of clay as a creative material by expanding their technical knowledge and their ability to discuss and analyze works with greater academic fluency. Students will continue to create and grow their body of work while still making both functional and sculptural pieces. Complex handbuilding and wheel throwing skills will be necessary as students begin to investigate and incorporate more personal styles and perspectives in their work. Students will continue experimenting and perfecting their use of textures, mid-range glazes, underglaze and other decorative approaches. The curriculum could be co-created with students and we will examine current work and trends in the greater Ceramics community.

 This course can earn passing students .5 credit towards Arts graduation requirements.

 This course can be used as a prerequisite for Honors Art.

GRAPHIC DESIGN AND ILLUSTRATION


Grade: 9 (2nd semester only after Art Foundation), 10, 11, 12
 Length / Credits: 1 semester / .5 credit
 Academic Department: Art


PREREQUISITES:

- » Art Foundation

DESCRIPTION:

This graphic design and hand illustration class is designed to teach students how to visually communicate ideas using design and illustration tools such as pencils, pen, marker, cameras and Adobe Photoshop. In this class, students will keep a hand-drawn sketchbook with creative exercises to solve; as well as use traditional art materials and Adobe® Photoshop to create innovative artwork that expands their ideas and potential as designers and illustrators in a digital age. Key units include typography, logos and branding, photo editing and montage, illustration and packaging design. The course will finish with an album cover design assignment.

 This course can earn passing students .5 credit towards Arts graduation requirements.

 This course can be used as a prerequisite for Honors Art.

DRAWING AND PAINTING I


Grade: 9 (2nd semester only after Art Foundation), 10, 11, 12
 Length / Credits: 1 semester / .5 credit
 Academic Department: Art


PREREQUISITES:

- » Art Foundation

DESCRIPTION:

This course is open to NHS students who have previously taken Art Foundation. A wide variety of choices in drawing and painting will be introduced. Materials used include plaster casting, graphite pencil, charcoal, pastel, acrylic, and mixed media. The advanced curriculum builds critical skills that can be used to begin to make individual artistic decisions. Students will engage in a high-level of creative production and exciting group discussions about art. Some of the course assignments include: a large black-ink doodle drawing, a realistic animal portrait shaded with pencil, a music-inspired acrylic painting and a final landscape painting on canvas. You will leave this class with a large collection of art to enjoy and increased confidence as an artist.

 This course can earn passing students .5 credit towards Arts graduation requirements.

 This course can be used as a prerequisite for Honors Art.

DRAWING AND PAINTING II


Grade: 10, 11, 12
 Length / Credits: 1 semester / .5 credit
 Academic Department: Art


PREREQUISITES:

- » Art Foundation and Drawing and Painting I

DESCRIPTION:

The Drawing and Painting II course offers advanced instruction in 2-dimensional artistic processes and is open to NHS students who have previously taken Art Foundation and Drawing and Painting I. Students will explore contemporary techniques in drawing using ballpoint pen and white charcoal, and work with collage techniques and mixed media. New painting techniques will be explored using acrylic paint and students will work on a variety of surfaces, like canvas and wood and possibly even tackle a group project to improve the school or community. Participants are expected to perform at a higher level, actively contribute and use artistic language to respond to works of art through class critique and discussion.

 This course can earn passing students .5 credit towards Arts graduation requirements.

 This course can be used as a prerequisite for Honors Art.

FILMMAKING


Grade: 9 (2nd semester only after Art Foundation), 10, 11, 12
 Length / Credits: 1 semester / .5 credit
 Academic Department: Art


PREREQUISITES:

- » Art Foundation

DESCRIPTION:

This course will approach working with the moving image from an artistic point of view and allow students to creatively explore the world of video and sound through the lens of a Canon DSLR camera, which can be check-out after signing a waiver. Students will learn about relevant artists and film genres; learn how to use filmmaking to communicate and express their ideas and refine their work by editing in post production using Adobe Premiere Pro, the film industry standard for all major blockbuster films! After learning the camera functions, the film elements of sound and light, as well as the editing tools, students will create 4 films: an experimental film, a public service announcement, a documentary, and a silent narrative. Students must be willing to work independently, to film outside of class time, and to participate in regular course critiques. The course will culminate with a student film festival.

 This course can earn passing students .5 credit towards Arts graduation requirements.

 This course can be used as a prerequisite for Honors Art.

PRINTMAKING


Grade: 9 (2nd semester only after Art Foundation), 10, 11, 12
 Length / Credits: 1 semester / .5 credit
 Academic Department: Art


PREREQUISITES:

- » Art Foundation

DESCRIPTION:

Don't let the name of this class intimidate you because Printmaking is Amazing! Printmaking is a class that is perfect for artists of all abilities and backgrounds. In Printmaking you will learn multiple ways to create works of art and you will be able to make endless original copies of your work. Think of Printmaking as an artist-powered copy machine. Some printmaking methods are more like drawing, some are like painting and some involve carving or scratching onto surfaces like wood, linoleum or plexi-glass. You will learn techniques called Monoprinting, Intaglio, Relief Carving, Chine Collé and many more. Plan to learn a new way of making art almost every week! The possibilities for creating in Printmaking are literally endless and this will be a very important part of your artistic education. Don't miss out on a class that you will love.

 This course can earn passing students .5 credit towards Arts graduation requirements.

 This course can be used as a prerequisite for Honors Art.

WATERCOLOR PAINTING I


Grade: 9 (2nd semester only after Art Foundation), 10, 11, 12
 Length / Credits: 1 semester / .5 credit
 Academic Department: Art


PREREQUISITES:

- » Art Foundation

DESCRIPTION:

Watercolor painting is some of the best art therapy around. Painting with watercolor helps you to slow down, relax and focus as an artist in order to improve overall skills of observation and visual communication. Watercolor will focus on color theory, innovative painting techniques, texture studies, and mixed media approaches. The course will offer students the opportunity to learn new ways of working with the watercolor painting medium, explore personal ideas and discover new details about art history. This course will provide an environment centered around enhancing individual painting skills and developing skills for creative problem solving.

 This course can earn passing students .5 credit towards Arts graduation requirements.

 This course can be used as a prerequisite for Honors Art.

WATERCOLOR PAINTING II


Grade: 10, 11, 12
 Length / Credits: 1 semester / .5 credit
 Academic Department: Art


PREREQUISITES:

- » Art Foundation & Watercolor Painting I

DESCRIPTION:

Have you taken Watercolor I already? Did you love the peace-filled classroom environment? Did you love the way that you could get lost in your paintings every day? Did you love the work that you created and are you ready to keep dipping your toes into the creative pool? If so, then you should sign up for Watercolor II. Watercolor II will continue to dive into working with watercolor paint as the primary medium in your artwork but students will be given a greater level of freedom and exciting opportunities to grow connections between working with watercolors and a variety of other mediums. Please bring the watercolor paint set that you received in Watercolor I with you to this class.

 This course can earn passing students .5 credit towards Arts graduation requirements.

 This course can be used as a prerequisite for Honors Art.

PHOTOGRAPHY


Grade: 9 (2nd semester only after Art Foundation), 10, 11, 12
 Length / Credits: 1 semester / .5 credit
 Academic Department: Art


PREREQUISITES:

- » Art Foundation

DESCRIPTION:

This course in Photography is designed to offer experiences with a Canon DSLR cameras, which can be check-out after signing a waiver. This course covers the essential photographic skills and various camera settings to offer greater creative and technical control. Media Arts Elements such as composition, lighting, time and exposure will be taught. Students learn framing within a viewfinder and explore various compositional principles, while capturing their own images and producing their own creations. Students also learn to examine images critically through regular critiques. Digital processing and editing techniques are introduced using Adobe Lightroom and Photoshop. There is an emphasis on creative expression, choice, and creative problem solving, as well as learning about the history of photography and iconic photographers from the past.

 This course can earn passing students .5 credit towards Arts graduation requirements.

 This course can be used as a prerequisite for Honors Art.

MUSIC THEORY


Grade: 9, 10, 11, 12

Length / Credits: 1 semester / .5 credit

Academic Department: Music

DESCRIPTION:

Music theory is the study of the fundamental building blocks of music including: pitch, rhythm, notation, melody, harmony, time signatures, key signatures, dictation and composition. Although there are no prerequisites for the class, it is not recommended for students should who have no experience with reading music while singing or playing an instrument.

 *This course can earn passing students .5 credit towards Arts graduation requirements.*

UNO VOX

Grade: 10, 11, 12

Length / Credits: 1 year / 1 credit


Academic Department: Music

PREREQUISITES:

- » As an upper level music class, Uno Vox members have typically participated in Cantabile first. Singers are selected through consent of the instructor after a Voice Listening (scheduled w/ Mr. Eastman). Consideration is given to tone quality, sight-reading, intonation and prior vocal experience. Students in Uno Vox should have basic music literacy skills (notes, dynamics, rhythms, articulations, etc.) and be able to demonstrate that fluently. Uno Vox rehearses daily. Students are expected to commit to Uno Vox for the entire year.

DESCRIPTION:

Uno Vox will sing two (SA) to four part (SSAA) music representing various styles and periods of music, both accompanied and unaccompanied. Rehearsal time is spent on developing vocal independence, basic & advanced choral techniques, musical concepts and music literacy. Rehearsal time will also be spent on aspects of music listening, appreciation and music theory. Choir members attend voice lessons and sectional rehearsals each semester. Uno Vox performs in all four major performances each year in addition to select festivals, conventions, and special invitations.

 *For passing students, this course fulfills the Arts graduation requirements.*

SYMPHONIC BAND

Grade: 9, 10, 11, 12

Length / Credits: 1 year / 1 credit

Academic Department: Music

PREREQUISITES:


- » The Symphonic Band is open to students in grades 9–12 who have participated in band through 8th

grade or have equivalent musical experience. No audition is required - basic knowledge of musical concepts and playing experience is required.

DESCRIPTION:

Symphonic Band rehearses daily and performs in three public concerts per year. Students will start to develop an understanding of intonation, rhythm, articulation, phrasing, and style. Students engage in a collaborative setting where they begin to build and foster their knowledge of technique on their primary instrument. Students will experience music in both a large and small ensemble setting through varied repertoire. Opportunities to engage in topics of music theory, history and musicology are included within daily rehearsals. Students are expected to commit to Symphonic Band for the entire year.

All band students are required to participate in rehearsals, concerts and various assigned events throughout the school year. Private instrumental music lessons will be given to each band student; students studying privately will schedule a playing check-in with the director during each grading period.

 *For passing students, this course fulfills the Arts graduation requirement.*

SYMPHONY ORCHESTRA

Grade: 10, 11, 12

Length / Credits: 1 year / 1 credit


Academic Department: Music

PREREQUISITES:

- » Audition required: Players must be able to play major scales and a solo demonstrating music reading skills.
- » Violin, Viola, Cello, Bass; possible to play Harp or Piano.
- » Students are expected to commit to Symphony Orchestra for the entire year. Concerts are mandatory.

DESCRIPTION:

The high school Symphony Orchestra rehearses for one period each day. Repertoire ranges from baroque to 20th century, string orchestra and full symphony orchestra. Students study music theory, history and listening techniques during class time. The emphasis in orchestra is to perform well, to enjoy making music, and to have a sense of commitment to the group. Orchestra is open to string players in grades 10–12 by audition and consent of the instructor.

 *For passing students, this course fulfills the Arts graduation requirement.*

ADVANCED

AP 3-D ART & DESIGN

Grade: 11, 12

Length / Credits: 1 year / 1 credit


Academic Department: Art


PREREQUISITES:

- » Art Foundation
- » Clay - Potter's Wheel I and Clay - Potter's Wheel II

DESCRIPTION:

AP 3-D Art and Design is an introductory college-level three-dimensional course. Students refine and apply 3-D skills to ideas they develop throughout the course. Students develop the skills that artists and designers use, and create a portfolio of work that is assessed to produce their AP score. Our primary creative medium at NHS will be clay, but additional materials may be used. Students are expected to be strong and determined independent workers and thinkers. Typically, AP 3-D is offered as a one year course. In early May, students submit their 3-D portfolios through the AP Digital Portfolio portal for assessment and scoring.

 *This course can earn passing students 1.0 credit towards Arts graduation requirements.*

 *This course can be used as a prerequisite for Honors Art.*

HONORS ART

Grade: 11, 12

Length / Credits: 1 semester / .5 credit

Academic Department: Art

PREREQUISITES:


- » To be eligible for Honors Art, a student must complete Art Foundation AND a MINIMUM of four other advanced visual art courses (FIVE total) including: Art Exploration, Drawing and Painting I & II, Clay - The Potter's Wheel I, II, III, Sculpture, Watercolor I & II, Photography, Filmmaking, Graphic Design & Illustration, Printmaking, and AP 3D before the start of the Honors Art semester. Courses taught outside of the Art Department do not count towards acceptance into Honors Art. Each student must have earned a B+ or higher in every visual art class taken prior to Honors Art in order to be considered as a candidate.

APPLICATION PROCESS:

- » Students should register for Honors Art during the registration period in the previous school year. Registered students will be sent an application and course information approximately 1.5 months prior to the beginning of the second semester class. Students who receive an application will need to fill out all of the materials and turn them into the instructor by the date specified in order to be considered for final acceptance into the course. Late applications will not be accepted.

DESCRIPTION:

Honors Art provides student artists with a unique opportunity to explore individual interests and aspirations in great depth. Course participants will work individually with the instructor to develop semester-long artistic concepts that will result in a thematic body of work. Honors artists create a minimum of 8 pieces of art, a weekly artist journal, and a final artist statement. A professional gallery presentation will be the cumulative experience for artists in Honors Art. The final gallery show will be held at a local Northfield community gallery in partnership with the art department. Artists in the class will produce every aspect of the final show and they will also have the opportunity to sell their work to prospective art collectors.

 *This course can earn passing students .5 credit towards the Arts graduation requirement.*

CAMERATA (ORCHESTRA)

Grade: 11,12

Length / Credits: 1 year / 1 credit

Academic Department: Music

PREREQUISITES:

- » Camerata members have typically participated in Philharmonia and Symphony prior to membership. Selections is based on placement assessments on written knowledge and playing skills.

DESCRIPTION:

Camerata, referring to the Italian name for a chamber ensemble, will allow students to progress to a higher level of string playing and musicianship. This group provides the opportunity to have a more carefully sequenced orchestra experience with smaller class-sizes, allowing for more effective instruction and student ownership. Camerata strives to reach the highest potential of a high school string student. This group will require the greatest independence and preparation.



For passing students, this course fulfills the Arts graduation requirement.

CONCERT CHOIR (MIXED CHOIR)

Grade: 10, 11,12

Length / Credits: 1 year / 1 credit

Academic Department: Music

PREREQUISITES:

- » Concert Choir members have typically participated in RaiderKor, Cantabile & Uno Vox, prior to membership. Singers are selected through consent of the instructor after a Voice Listening (scheduled with Mr. Eastman). Consideration is given to tone quality, sight-reading, intonation and prior vocal experience. Students in Concert Choir should have basic music literacy skills (notes, dynamics, rhythms, articulations, etc.) and be able to demonstrate that fluently. Concert Choir rehearses daily. Students are expected to commit to Concert Choir for the entire year.

DESCRIPTION:

Concert Choir will strive for the highest possible performance level, while performing four to eight part SATB music representing all styles and periods of music, both accompanied and unaccompanied. Rehearsal emphasis is on more advanced choral techniques, vocal independence and on advanced musical concepts. Rehearsal time will also be spent on aspects of music listening, appreciation and theory. Choir members attend voice lessons and sectional rehearsals each semester. Concert Choir Tours annually, and performs in all four major performances each year in addition to select festivals, conventions, and invitations.



For passing students, this course fulfills the Arts graduation requirement.

CONCERT BAND

Grade: 10, 11, 12

Length / Credits: 1 year / 1 credit

Academic Department: Music

Audition is required. Selection is based on playing ability and instrumentation. The Concert Band strives to challenge players to the highest possible level of ensemble performance.

PREREQUISITES:

Audition with instructor that demonstrate the following:

Winds – Demonstrated ability on scales (Major/Minor/Chromatic), provided etude(s), and sight reading.

Percussion – Demonstrated ability on snare, and mallets; Prepared scales, etude(s) and sight reading.

DESCRIPTION:

Concert Band rehearses daily and performs in five public concerts per year. Rehearsal emphasis is on more advanced instrumental techniques, musical independence and on advanced musical concepts. Students will experience music in both a large and small ensemble setting through challenging and varied repertoire. Opportunities to engage in topics of music theory, appreciation, history and musicology are included within daily rehearsals. Students are expected to commit to Concert Band for the entire year.

All band students are required to participate in rehearsals, concerts and various assigned events throughout the school year. Private instrumental music lessons will be given to each band student; students studying privately will schedule a playing check-in with the director during each grading period.



For passing students, this course fulfills the Arts graduation requirement.

JAZZ BAND 1

Grade: 9, 10, 11, 12

Length / Credits: 1 year / 1 credit

Academic Department: Music

THIS IS A ZERO HOUR COURSE THAT MEETS MONDAY, TUESDAY,
AND FRIDAY


PREREQUISITES:

- » Audition is required in the fall of EACH school year.
- » Instruments able to audition:
 - » Alto Sax
 - » Tenor Sax
 - » Bari Sax
 - » Trumpet
 - » Trombone
 - » Drum Kit
 - » Piano
 - » Bass
 - » Guitar
 - » Vibraphone

Students will be registered to this course after the audition process. ***Students may not register themselves for this course.***

DESCRIPTION:

Jazz I is an audition-based ensemble that meets three (3) times a week and performs a minimum of three (3) concerts per year. This course is graded and students will receive credit for their work. Students will have the opportunity to perform music ranging in style, context and occasion including Swing, Samba, Blues, Bossa Nova, Fusion, and more. Jazz Listening, Theory and History will be included in rehearsals; students are expected to apply this knowledge in practice, rehearsal and performance as it is a foundational part of the tradition of Jazz music making and culture. Student's will also have ample opportunities to engage in improvisation through solo's and soli's. This ensemble's instrumentation is limited to trumpets, trombones, saxophones and rhythm section (guitar, bass, piano, percussion). Students will be required to audition each year.

 For passing students, this course fulfills the Arts graduation requirements.

BUSINESS & CULINARY

Accounting and Finance / Entrepreneurship and Business Management
 Hospitality and Restaurant Management / Marketing and Sales

Business & Culinary offers students industry-relevant experiences that will allow them to explore business practices, ideas and products that impact local, state, national, and the global economy. Career fields include marketing, sales, finance, hospitality and tourism, management, and entrepreneurship.

RELATED CAREERS:

Accountant	Venture Capitalist	Event Planner	Recruiters
Bookkeeper	Small Business Owner	Tour Operator	Social Media Marketing Manager
Actuary	Entrepreneur	Food and Beverage Manager	Sale Representatives & Retail Managers
Insurance Underwriters	Business Analysts	Executive Chef	Fundraiser
Loan Officer	Office Manager	Sous Chef	Media Buyer
Financial Planner	Supply Chain Manager	Restaurant Owner	
Tax Preparer	Hotel Management	Market Research Analysts	

INTRODUCTORY - BUSINESS

KEYBOARDING & MICROSOFT OFFICE

Grade: 9, 10, 11, 12
 Length / Credits: 1 semester / .5 credit
 Academic Department: Business Education

DESCRIPTION:

This course is designed to teach students foundational keyboarding skills and practical knowledge of Microsoft Office applications. It focuses on improving typing speed and accuracy, as well as creating and editing professional documents in Microsoft Word, and organizing data with spreadsheets in Excel. Students will also learn how to use Excel functions and create charts/graphs for data visualization. By the end of the course, students will be equipped to apply these skills in both academic and professional environments.

PERSONAL FINANCE

Grade: 11, 12
 Length / Credits: 1 semester / .5 credit
 Academic Department: Family & Consumer Science

DESCRIPTION:

This course will prepare students for life by understanding the practical skills of personal finance. Students learn about the following: credit cards and credit scores, student and personal loans, buying a car, auto and health insurance, budgeting, preparing income taxes, finding an apartment and reading a lease, researching products before making expensive purchases, advocating for their rights as a consumer when they are not treated fairly and planning a financially responsible vacation. Students will also cover some basic skills needed to make sure that you can make the most of your personal financial life.

INTRODUCTORY - CULINARY

INTRO TO BAKING & CULINARY ARTS I - NEW

Grade: 9, 10, 11, 12
 Length / Credits: 1 semester / .5 credit
 Academic Department: Family & Consumer Science

DESCRIPTION:

This hands-on course introduces students to the essential skills and techniques in baking and cooking, providing a strong foundation in the culinary arts. Students will learn core baking and cooking methods, how to use kitchen equipment, and proper ingredient handling. The course combines theory with practical experience, allowing students to confidently prepare a variety of delicious baked goods and dishes, which will be enjoyed in class. This course serves as a stepping stone for more advanced culinary courses, such as Culinary Arts II and Baking and Pastries II.

INTERMEDIATE - BUSINESS

ACCOUNTING 1

Grade: 10, 11, 12
 Length / Credits: 1 semester / .5 credit
 Academic Department: Business Education

DESCRIPTION:

This course provides a foundational understanding of accounting, often referred to as the "language of business." It's ideal for students pursuing a business major or interested in owning their own business. The course covers financial accounting basics, focusing on the accounting cycle for a service business as a sole proprietorship. Students will learn to analyze

AREAS OF INTEREST

business transactions, make journal entries, post to ledgers, create worksheets, and prepare financial statements. Upon completion, students will be better prepared for college-level accounting courses and will have the skills needed for entry-level accounting or bookkeeping roles.

ACCOUNTING 2

Grade: 10, 11, 12

Length / Credits: 1 semester / .5 credit

Academic Department: Business Education

DESCRIPTION:

This course is a continuation of Accounting 1, designed to deepen students' understanding of accounting principles. It builds on the foundational knowledge from Accounting 1 by focusing on a merchandising business organized as a corporation. Students will learn to journalize purchases, post to general and subsidiary ledgers, process payroll, pay taxes, distribute dividends to stockholders, and prepare financial documents for a corporation. Completing both Accounting 1 and 2 will give students a strong advantage in college business and accounting courses and equip them with the skills needed for accounting or bookkeeping careers, or for managing their own business finances.

BUSINESS FINANCE & MATH

Grade: 10, 11, 12

Length / Credits: 1 semester / .5 credit

Academic Department: Business Education

DESCRIPTION:

This course offers high school students a foundational understanding of finance in the context of business. Topics include the basics of financial markets, stocks, bonds, and other financial instruments. Students will participate in *The Stock Market Game*, where they invest virtual money over a six-week period. The course also covers the role of finance in business, funding sources, and key business functions like accounting, payroll, and inventory management. Business math concepts are applied throughout the course. It serves as a valuable introduction for students interested in pursuing finance, economics, accounting, or other business-related fields.

BUSINESS PRINCIPLES & MANAGEMENT

Grade: 10, 11, 12

Length / Credits: 1 semester / .5 credit

Academic Department: Business Education

DESCRIPTION:

This course introduces students to key concepts and practices in the world of business. It covers business principles, management theories, and essential skills for running a business successfully. Students will explore topics such as

AREAS OF INTEREST

the definition of business, types of businesses, and the role of entrepreneurship. The course also delves into management functions (planning, organizing, leading, and controlling), different management styles, basic marketing principles, and the elements of the marketing mix. Additionally, students will study the characteristics of successful entrepreneurs and the entrepreneurial process. A semester-long project involves developing a business plan, allowing students to apply what they've learned in a practical way.

INTERMEDIATE - CULINARY

CULINARY ARTS II (FORMERLY INTRO TO CULINARY)

Grade: 10, 11, 12

Length / Credits: 1 semester / .5 credit

Academic Department: Family & Consumer Science

PREREQUISITE:

- » Successful completion of Intro to Baking & Culinary Arts I with at least a B+

DESCRIPTION:

Culinary Arts II is an advanced, hands-on course that builds on the skills learned in Baking & Culinary Arts I, perfect for students passionate about cooking. In this course, you'll explore advanced culinary techniques, safety protocols, nutrition, flavor profiling, and food presentation. You'll also develop practical skills while preparing delicious dishes that you can enjoy in class. The course prepares students for further culinary studies, such as mastering mother sauces and exploring different cooking methods. Plus, students will have the opportunity to earn their ServSafe Food Handler Certification, enhancing their credentials for a career in the culinary field.

BAKING AND PASTRIES II (FORMERLY BAKING AND PASTRIES)

Grade: 10, 11, 12

Length / Credits: 1 semester / .5 credit

Academic Department: Family & Consumer Science

PREREQUISITE:

- » Successful completion of Intro to Baking & Culinary Arts I with at least a B+

DESCRIPTION:

Baking and Pastries II is the perfect course for anyone eager to continue their journey in the world of baking! Building on the skills learned in Baking & Culinary Arts I, this hands-on course delves deeper into the art and science of baking. You'll refine techniques like ingredient selection, precise measurements, mixing methods, and temperature control. From cookies

and cakes to fresh breads and pastries, you'll learn to craft delicious treats while perfecting textures and flavors. Beyond just skill-building, this course encourages creativity, whether you're aspiring to be a Pastry Chef or simply love baking at home. Plus, you'll have the chance to earn your ServSafe Food Handler Certification, preparing you for a successful career in the culinary world!

ADVANCED - BUSINESS

ADVANCED ACCOUNTING

Grade: 11, 12

Length / Credits: 1 year / 1 credit

Academic Department: Business Education

PREREQUISITES:

- » Successful completion of Accounting 1 and 2

DESCRIPTION:

Advanced Accounting is an independent study course designed for students who have completed Accounting 1 and 2. It provides a deeper dive into accounting principles and practices, focusing on more complex financial analysis, reporting, and decision-making. Key topics include corporate accounting, payroll, departmentalized accounting, uncollectible accounts, plant assets, accrual basis, and other accounting systems. The course also integrates technology tools and accounting software to enhance financial reporting and analysis, preparing students for more advanced work in the field of accounting.

SPORTS, ENTERTAINMENT, & FASHION MARKETING

Grade: 11, 12

Length / Credits: 1 semester / .5 credit

Academic Department: Business Education

DESCRIPTION:

This comprehensive course in Sports, Entertainment, and Fashion Marketing introduces students to the unique marketing strategies within these high-profile industries. Topics covered include the characteristics of each industry, consumer behavior analysis, and staying updated on current trends. Students will explore brand management, digital and social media marketing, and the role of sponsorship and celebrity endorsements. The course also delves into marketing major events, like sporting events, entertainment productions, and fashion shows. A capstone project allows students to apply their learning by developing a marketing strategy for a specific sports team, entertainment property, or fashion brand. This course equips students with the skills and knowledge necessary for successful careers in the dynamic world of sports, entertainment, and fashion marketing.

ADVANCED - CULINARY

CULINARY ARTS III - INTERNATIONAL FOODS

Grade: 10, 11, 12

Length / Credits: 1 semester / .5 credit

Academic Department: Family & Consumer Science

PREREQUISITES:

- » Successful completion of Culinary Arts II with at least a B+
- » Open registration is available to Senior Class students who have not taken Baking & Culinary Arts I: Introduction to Baking and Culinary Arts but who have independently acquired baking and pastries fundamentals and demonstrate their knowledge through an interview with the Culinary Arts Instructor.

DESCRIPTION:

Get ready to take a flavorful journey around the world with this exciting global culinary course! Through hands-on experiences, students will explore international cuisines, learning about the unique flavors, traditions, and cooking techniques from different regions. The course covers iconic dishes from Asia, Africa, Latin America, and Europe, while delving into the cultural, historical, and geographical influences that shape each cuisine. Students will expand their creativity and develop a deeper appreciation for diverse ingredients and methods. Plus, you'll have the chance to earn your ServSafe Food Handler Certification, adding a valuable credential to your culinary expertise!

BAKING AND PASTRIES III

Grade: 10, 11, 12

Length / Credits: 1 semester / .5 credit

Academic Department: Family & Consumer Science

PREREQUISITES:

- » Successful completion of Baking & Pastries II with at least a B+
- » Open registration is available to Senior Class students who have not taken Baking & Culinary Arts I: Introduction to Baking and Culinary Arts but who have independently acquired baking and pastries fundamentals and demonstrate their knowledge through an interview with the Culinary Arts Instructor.

DESCRIPTION:

Take your dessert-making skills to the next level with this course! This hands-on class is perfect for students who want to dive into the art of advanced pastry creation. You'll master intricate techniques like laminated dough, sugar work, and chocolate tempering while refining your skills in flavor combinations and artistic presentation. The course encourages creativity, helping you push the boundaries of your baking skills whether you're aiming to become a Pastry Chef, start your own dessert business, or simply elevate your home baking. You'll have the chance to earn your ServSafe Food Handler Certification, giving you a professional edge in the culinary world!

AGRICULTURE, FOODS, NATURAL RESOURCES & TECHNOLOGY EDUCATION

Architecture and Construction / Manufacturing and Fabrication Technologies / Engineering and Design / Transportation Technologies

Design Engineering is a high-tech, high-skill, high-demand area that will help students gain hands-on training to prepare for a variety of jobs. Career fields include manufacturing, robotics, transportation, design, electronics, architecture, construction, and engineering.

RELATED CAREERS:

Aircraft Mechanic	Computer Control Programmer/ Operator	Industrial Engineer	Robot Technician
Aeronautic Engineer	Design Electrical Engineer	Machinists	Quality Engineer
Architect	Engineer	Manufacturing Mechanical Engineer	Structural Engineer
Building Engineer	Electrician	Process Engineer	Tool and Die Maker
Civil Engineer	Entrepreneur	Packaging Engineer	Welder
CNC Machinist	HVAC Controller	Process Engineer	

INTRODUCTORY

INTRODUCTION TO DESIGN ENGINEERING

Grade: 9, 10, 11, 12

Length / Credits: 1 semester / .5 credit

Academic Department: AFNR & Tech Ed

DESCRIPTION:

Students are introduced to the design process and steps to creating products using a variety of materials such as wood, steel and plastic in this foundational class. Students will be introduced to computer aided design and be able to use CAD applications to rapidly prototype ideas. Students fabricate designs in the woodshop and metal shop areas. They will learn basic safety skills, operations or machinery, and fabrication techniques.

SMALL ENGINES

Grade: 9, 10, 11, 12

Length / Credits: 1 semester / .5 credit

Academic Department: AFNR & Tech Ed

DESCRIPTION:

If you ever own a snowmobile, lawn mower or anything else with a small engine, you'll be glad you took this class! You and your lab partner will disassemble, measure, evaluate and reassemble two- and four-cycle engines. After this class you will understand the basic operating principles and know how to repair and maintain small engines. No previous experience is needed—we'll cover shop safety and use of tools and you'll be up and running in no time!

INTRODUCTION TO WOODS

Grade: 9, 10, 11, 12

Length / Credits: 1 semester / .5 credit

Academic Department: AFNR & Tech Ed

DESCRIPTION:

This course will deepen students' understanding of materials (different woods) machines needed to manipulate and work with wood as well as the skills needed to fabricate and assemble wood products. A variety of projects will be undertaken by students with an increasing degree of difficulty required for each in succession.

INTRODUCTION TO METAL FABRICATION

Grade: 9, 10, 11, 12

Length / Credits: 1 semester / .5 credit

Academic Department: AFNR & Tech Ed

DESCRIPTION:

This course will deepen students' understanding of materials (different metals) machines needed to manipulate and work with metals as well as the skills needed to fabricate and assemble metal products. Students will learn a basic understanding and operation of ARC and MIG welding. Students will also be introduced to CNC plasma cutting as part of this course. A variety of projects will be undertaken by students with an increasing degree of difficulty required for each in succession.

AREAS OF INTEREST

INTRODUCTION TO AGRICULTURE

Grade: 9, 10, 11, 12

Length / Credits: 1 semester / .5 credit

Academic Department: AFNR & Tech Ed

DESCRIPTION:

Students will discover the amazing world of agriculture. This class will take a look at different topics that fall under the agricultural industry. Topics covered in class include plants, large animals, companion animals, natural resources, food processing, leadership, mechanics, business systems, and FFA. Students will learn about all these topics while taking advantage of seasonal opportunities as they arise.

PLANT AND SOIL SCIENCE

Grade: 9, 10, 11, 12

Length / Credits: 1 semester / .5 credit

Academic Department: AFNR & Tech Ed

DESCRIPTION:

This course will cover a wide range of topics in the world of horticulture. Topics could include crops, herbicides/pesticides, soil structures, greenhouse maintenance, and nursery management. This course is designed as an overview of the taxonomic and structural characteristics of plants. An understanding of plant anatomy, function and growth will be discussed. Students will have hands-on opportunities working with various plants and soil structures.

TRANSPORTATION OPERATIONS

Grade: 10, 11, 12

Length / Credits: 1 semester / .5 credit

Academic Department: AFNR & Tech Ed

DESCRIPTION:

Mechanics, Large Engines, Tractors; Agriculture Mechanics and Equipment courses provide students with the engineering, power, and mechanical technology principles, skills, and knowledge that are specifically applicable to the agricultural industry. Typical topics include the operation, maintenance, and repair of power, electrical, hydraulic, pneumatic, renewable, wind, solar, and mechanical systems. Students will have hands-on experiences with large machinery and equipment. e!

INTERMEDIATE

AG CONSTRUCTION - NEW

Grade: 9, 10, 11, 12

Length / Credits: 1 semester / .5 credit

Academic Department: AFNR & Tech Ed

DESCRIPTION:

Woods, Carpentry, Finishing; Agriculture Structures courses provide students with the skills and knowledge that are specifically applicable to the construction, maintenance, and repair of structures integral to the agricultural industry, including but not limited to animal enclosures, irrigation systems, and storage facilities. In these courses, students typically study technology, design, planning, and construction knowledge and skills (such as measurement, carpentry, plumbing, concrete, and electrical systems), in addition to the safe operation of tools, technology and machines.

ANIMAL SCIENCE

Grade: 9, 10, 11, 12

Length / Credits: 1 semester / .5 credit

Academic Department: AFNR & Tech Ed

DESCRIPTION:

This animal care course focuses on the care and management of small and large animals. Animal nutrition, health, behavior, reproduction and breeding, anatomy and physiology, use of qualitative and quantitative analyses for decision-making, facilities, handling and training, and grooming are typical areas of study. Students will be required to handle or engage with various animals throughout the semester.

WILDLIFE, FISHERIES, & FORESTRY

Grade: 9, 10, 11, 12

Length / Credits: 1 semester / .5 credit

Academic Department: AFNR & Tech Ed

DESCRIPTION:

This course provides students with the opportunity to understand and appreciate the importance of maintaining the land and ecological systems in the Northfield area that enable non-domesticated animals to thrive. We will also emphasize how humans and animals may both take advantage of the same land or how to gain economic benefits from the land while not degrading its natural resources or depleting plant or animal populations. Students will have the opportunity to participate in the MN Trout in the classroom, learn the processes of building their own fishing rod, tying flies, tracking wildlife and identifying animals, fish and tree species. Career opportunities in the Department of Agriculture, Forestry and Natural Resources will also be explored.

ADVANCED DESIGN ENGINEERING

Grade: 9, 10, 11, 12

Length / Credits: 1 semester / .5 credit

Academic Department: AFNR & Tech Ed

PREREQUISITE:

- » Intro to Design Engineering w/ a C or better

DESCRIPTION:

Students will build on the basic CAD (Comdesign skills from the Intro to Design Engineering class). Autodesk Fusion 360 will be the main application used in this course. Developing knowledge and skill with this application will allow students to create and output their work for use in a number of different machines such as 3D printers, laser cutters, plasma cutters, and routers - CAM (Computer Aided Manufacture).

AUTO MECHANICS

Grade: 10, 11, 12

Length / Credits: 1 semester / .5 credit

Academic Department: AFNR & Tech Ed

PREREQUISITE:

- » Transportation Operations w/ a B or better

DESCRIPTION:

The course will explore the automobile from two standpoints: the theory behind how each system works and diagnostics and repairs that go along with those systems. Students will learn about shop safety, engine theory & repair, steering and suspension system, brake system, electrical system, starting & charging system, ignition system, fuel system, transmissions, engine management and careers in the Automotive Industry.

ADVANCED WOODS

Grade: 9, 10, 11, 12

Length / Credits: 1 semester / .5 credit

Academic Department: AFNR & Tech Ed

PREREQUISITE:

- » Intro to Woods with a B or better

DESCRIPTION:

Expanding on the woodworking skills learned in Intro to Woods, students will construct a project of their design or assigned by the instructor which uses advanced techniques and processes that enable the student to further develop their design and construction skills. Other areas to be covered in the class include the use of hand tools and the lathe, as well as incorporating the CNC router. Project options may include: desk, dresser, bookshelf, cabinets, etc.

ADVANCED METAL FABRICATION

Grade: 9, 10, 11, 12

Length / Credits: 1 semester / .5 credit

Academic Department: AFNR & Tech Ed

PREREQUISITE:

- » Intro to Metal Fabrication with a B or better

DESCRIPTION:

Students will design and build products out of metal. In this course students will work with digital design to plan a product and then use their plans to construct the product. Students will also learn how to take their digital designs and use them with high tech CNC Plasma and Laser technologies to complete projects as well as advance their welding skills. Students will complete individually designed projects and develop a product to be manufactured. Students will also learn basic operation of a metal lathe and mill while fabricating parts for their projects.

AREAS OF INTEREST

HEALTH SCIENCES

Biomedical / Public Health / Exercise Science / Healthcare

A Health Science education will provide students with the knowledge and skills to pursue a variety of positions within this high-demand career area. Health Science fields include biomedical science, exercise science, health and wellness, nutrition, and healthcare fields.

RELATED CAREERS:

Medical Appliance Technician	Dietitian and Nutritionist	Occupational Therapist	Licensed and Practical Nurse
Medical and Clinical Lab Technologist	Community Health Worker	Massage Therapist	Respiratory Therapist
Surgical Technologist	Massage Therapist	Exercise Physiologist	Dentistry
Medical Imaging Technologist	Fitness Trainer and Aerobics Instructor	Pharmacy Technician	Ophthalmology
Biomedical Engineer	Athletic Trainer	Medical Assistant	Surgical and Medical Technician
Forensic Science Technician	Recreational Therapist	Healthcare Social Worker	
Dietetic Technician	Physical Therapist	Physician	
		Physician Assistant	

INTERMEDIATE

ANATOMY, PHYSIOLOGY, AND CURRENT ISSUES IN HUMAN HEALTH

Grades: 11, 12

Length / Credits: 1 semester / .5 credit

Academic Department: Science

PREREQUISITES:

- » Completion of Chemistry 9 and Physics 9; completion of Biology is recommended.

DESCRIPTION:

This course is designed for students interested in the structures (anatomy) and functions (physiology) of the human body, as well as current issues in human health and potential careers in the health sciences. The class will utilize projects, lectures, labs, movies, activities, readings, research, and small and large group discussions as we wind our way through a wide variety of human health-related topics.

HEALTHCARE SKILLS AND FIRST AID - NEW

Grade: 11,12

Length / Credits: 1 semester / .5 credit

Academic Department: Physical Education / Wellness

PREREQUISITES:

- » Health (10th Grade)

DESCRIPTION:

This course is designed for students to explore the skills involved in healthcare careers. Students will have the opportunity to become certified in First Aid & CPR/ AED. Students will experience a variety of skills involved in Certified Nursing Assistant, EMT, and other entry level medical careers. Skills that will be covered; first aid, AED/ CPR, blood pressure, heart rate, respirations, gait belt and patient transfers, communicable and noncommunicable disease and personal protective equipment.

SPORTS MEDICINE LOWER BODY

Grade: 11, 12

Length / Credits: 1 semester / .5 credit

Academic Department: Physical Education / Wellness

PREREQUISITES:

- » Health (10th Grade)

DESCRIPTION:

Sports Medicine Lower Body is designed for students to evaluate current health concerns in our world related to sports medicine - specific to the lower body. Emphasis will be placed on classroom discussions and student projects in the areas of lower body musculoskeletal anatomy, musculoskeletal injury, fitness, lower body diseases and disorders, and health careers. The students will also be introduced to basic information regarding medical terminology and athletic training techniques.

SPORTS MEDICINE UPPER BODY

Grade: 11, 12

Length / Credits: 1 semester / .5 credit

Academic Department: Physical Education / Wellness

PREREQUISITES:

- » Health (10th Grade)

DESCRIPTION:

Sports Medicine Upper Body is designed for students to evaluate current health concerns in our world related to sports medicine - specific to the upper body. Emphasis will be placed on classroom discussions and student projects in the areas of upper body musculoskeletal anatomy, musculoskeletal injury, fitness, upper body diseases and disorders, and health careers. The students will also be introduced to basic information regarding medical terminology and athletic training techniques.

HUMAN SERVICES

Teaching and Educational Services / Law and Legal Services / Public Service and Leadership / Social and Mental Health Services

Skills students gain in Human Services can be applied across all academic disciplines. Human Services courses encourage students to look beyond themselves to serve others. Career fields include human development, psychology, education legal fields, law enforcement, and public services.

RELATED CAREERS:

Early Childhood Educator	Correctional Officers and Jailers	Military Service	Clinical
K-12 Teacher	Attorney	Non-Governmental Organization	Counseling
Administrator	Court Reporters	Lobbyist	and School Psychologist
Educational Paraprofessional	Paralegal and Legal Assistants	Social and Human Service	
Training and Development	Government Service	Assistant	
Manager/Supervisor	Labor Relations Specialist	Mental Health Counselors	
Police and Sheriff's Patrol Officers	Firefighter	Health Educators	

INTRODUCTORY

CHILD PSYCHOLOGY AND DEVELOPMENT

Grade: 9, 10, 11, 12

Length / Credits: 1 semester / .5 credit

Academic Department: Family & Consumer Science

DESCRIPTION:

This is a fun and interesting class where we learn about child development from before birth up to age 10. Students explore how the brain develops, why kids have unique personalities and how to help kids develop socially, emotionally and morally. We look at parenting styles and students explore the reasons why children think and behave the way they do, learn about the impact of different parenting styles on kids, introduce child abuse and come to understand and celebrate the remarkable and complex lives of young kids. This class includes projects, research, independent reading, lectures, and activities. If you enjoy kids or find human nature interesting, this class is for you.

CHILD PSYCHOLOGY AND THE MIND

Grade: 9, 10, 11, 12

Length / Credits: 1 semester / .5 credit

Academic Department: Family & Consumer Science

DESCRIPTION:

Students will explore the mind of the child from birth to teenage years. Students will learn about: mental health issues in children, different types of learning disabilities and genetic disorders, a variety of learning styles and intelligences (including your own), how trauma, poverty and race impacts kids, and more! Students observe children and develop strategies for teaching, nurturing and better relating to kids. This class includes projects, research, independent reading, lectures, and a chance to volunteer with their favorite elementary school teacher. If you plan to work with children in any capacity or have kids in your life someday, you will enjoy this class.

HUMAN AND FAMILY RELATIONSHIPS

Grade: 9, 10, 11, 12

Length / Credits: 1 semester / .5 credit

Academic Department: Family & Consumer Science

DESCRIPTION

If you find the way that people function in friendships, relationships and families interesting, this class is for you. Students will learn about healthy and unhealthy friendships and romantic relationships, how to create positive boundaries, how to manage conflicts, how to argue in healthy ways, different communication styles and how to get along with all types of people. We look at healthy and unhealthy family dynamics and how addiction and mental health issues impact families and relationships. Students will be presented with interesting readings, film clips, speakers and discussions. If you are interested in creating healthy friendships, relationships and a healthy family of your own and/or entering the fields of counseling, social work, education, medicine or any other type of human or community service field, this class will be a benefit to you.

INTERMEDIATE

BUSINESS & PERSONAL LAW

Grade: 10, 11, 12

Length / Credits: 1 semester / .5 credit

Academic Department: Business Education

DESCRIPTION:

This course in practical law is designed to provide students with an introduction to the fundamental principles of law, focusing on three key areas: civil law, criminal law, and contract law. Course objectives include: Exploring the basic structure and functions of legal systems; Examining the sources of law, including statutes and constitutional law; Defining civil law and its role in resolving disputes; Studying tort law and contract law; Analyzing landmark civil cases and their impact on legal precedents; Exploring the principles of criminal law and the criminal justice system; Investigating different types of crimes, including misdemeanors and felonies; Examining criminal procedures, constitutional rights, and the role of law enforcement in the criminal justice process. This course seeks to prepare students for further studies in law or related fields and to enhance their ability to engage thoughtfully in civic life.

SPORTS PSYCHOLOGY, PERFORMANCE, AND LEADERSHIP

Grade: 11, 12

Length / Credits: 1 semester / .5 credit

Academic Department: Wellness/Physical Education

DESCRIPTION:

This course is for students interested in sports - specifically how psychological factors impact sports performance, how people acquire and develop motor skills, and how leadership impacts teams and performance. Throughout the course students will be introduced to strategies for improving sports performance and leadership.

PSYCHOLOGY

Grade: 11, 12

Length / Credits: 1 semester / .5 credit

Academic Department: Social Studies

Students who have already completed A.P. Psychology are not eligible to take this course.

DESCRIPTION:

In this semester-long introductory course, students will be exposed to a wide variety of psychological concepts and research ranging from biological psychology, developmental psychology, social psychology, and abnormal psychology. The course will emphasize how psychological knowledge can serve a practical purpose as it is applied to everyday life. We will utilize psychological principles to become better thinkers and learners. This course is NOT a prerequisite to Advanced Placement or Advanced Psychology.

AREAS OF INTEREST

ADVANCED

ADVANCED PSYCHOLOGY - NEW

Grade: 11, 12

Length / Credits: 1 year / 1 credit

Academic Department: Social Studies

PREREQUISITES:

- » This course is a concurrent enrollment course through MSU Mankato. Receiving college credit is determined by student applying, being accepted to, and fulfilling grade requirements as part of Mankato's PSEO program.
- » SENIOR:
 - » Rank in the top 50% of your high school class OR;
 - » Cumulative GPA of at least 3.0 OR;
 - » Achieve a 21 of higher composite score on the ACT exam (with satisfactory GPA)
- » JUNIOR:
 - » Rank in the top 33% of your high school class OR;
 - » Cumulative GPA of at least 3.3 OR;
 - » Achieve a 24 of higher composite score on the ACT exam (with satisfactory GPA)

DESCRIPTION:

The Advanced Psychology course is designed to introduce students to the systematic and scientific study of the behavior and mental processes of human beings and other animals. Students are exposed to the psychological facts, principles, and phenomena associated with each of the major subfields within psychology. Students also learn about the ethics and methods psychologists use in their science and practice. This course includes a curriculum taught in an introductory level psychology class at Minnesota State - Mankato and students may earn college credit through the university with a passing grade. Additionally, this course prepares students with the writing skills needed to take the AP Psychology exam through the College Board.

★ *Dual credit opportunity*

PEER ACADEMIC COACHING - NEW

Grades: 11, 12

Length / Credits: 1 semester / .50 credit

Academic Department: Student Success Center

DESCRIPTION:

Peer Academic Coaching is a class where students get training for the skills it takes to be a tutor and mentor to peers. Training is done in the Student Success Center throughout the semester. Students work with teachers in their classrooms to help students as needed, from one on one tutoring to small group facilitation. Gain skills in communication, problem solving, empathy, initiative and adaptability. This is a unique class opportunity to gain skills while supporting peers as they learn.

AP U.S. GOVERNMENT & POLITICS

Grade: 11, 12

Length / Credits: 1 semester / .5 credit

Academic Department: Social Studies

DESCRIPTION:

Advanced Placement (AP) Government and Politics is a semester course designed for those "political scientists" who wish to have a deeper understanding of America's democracy. Units of study include the U.S. Constitution, civil rights and liberties, political institutions, campaigns, elections, voting and the media. Students will engage in respectful debate and discussion of the current political issues of the day.

★ *Dual credit opportunity*

SCOPE

Grade: 9

Length / Credits: 1 semester / .25 credit

Academic Department: Social Studies/Independent Study/TA

DESCRIPTION:

SCOPE, standing for Student Community Outreach Program Experience, is an advanced historical writing class for freshmen taught by upperclassmen. Throughout the first half of this second-semester course, students will complete projects that will prepare them for the ultimate goal of Cemetery Stories, an event in collaboration with the Northfield Historical Society. 8th graders must apply and be admitted into the class to participate. Everyone will receive 0.25 credits for participation, so this course can only be taken instead of a study hall and not as a 6th class for a semester.

SERVICE LEARNING - NEW

Grades: 10, 11, 12

Length / Credits: 1 semester / .50 credit

Academic Department: Social Studies

DESCRIPTION:

This course offers an opportunity for students to consider the needs of the community (local or global) as well as their personal strengths and interest areas in order to implement service. Most school weeks will include opportunities for service in or out of the building as well as longer term service initiatives designed by the students themselves. The course goals are embedded in civic engagement through student driven initiatives.

SCIENCE & TECHNOLOGY

Electrical Systems / Information Technology Solutions / Computer Science / Green Energy and Innovative Technologies

Science & Technology supports students to be critical thinkers and leaders across a number of dynamic industries that rely on scientific and technical skills. The education will reflect the modern needs of employers and prepare students to successfully use skills that will contribute to the betterment of the community.

Career fields include investigative science, math, applied science & technology, and computer science.

RELATED CAREERS:

Electrician	Electrical Systems Designer and Drafter	Computer Research Scientist	Natural Sciences Managers
Electrical Engineer	Network and Computer Systems Administrators	Software Developer	Environmental Engineer
Electronics Technician	Computer Network Architects	Computer Systems Analyst	Green Technology and Alternative Energy Designer
Electrical Power-Line Installers and Repairers	Computer Hardware Engineer	Computer and Information Systems	Geoscientist & Conservation Scientists
Power Plant Technician and Operator	Computer Hardware Technician and Repairer	Computer Programmers	Mining and Geological Engineer
		Information Security Analysts	
		Database Administrators	

INTRODUCTORY

INFORMATION TECHNOLOGY & WEB DESIGN

Grade: 9, 10, 11, 12

Length / Credits: 1 semester / .5 credit

Academic Department: Business Education

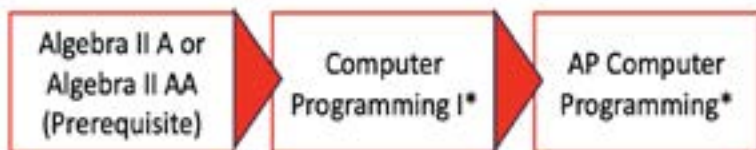
DESCRIPTION:

This course is designed to provide students with an understanding of information technology, along with practical skills in web design and game development. The course integrates concepts and knowledge with hands-on experiences to prepare students for both further education and entry-level positions in the field. Topics include: Learning basic computer hardware and software concepts and file management; Exploring the principles of graphic design; Learning the principles of web design; Learning HTML and CSS fundamentals for creating web pages; Understanding game mechanics including storytelling, character design and game development using game engines. Students will have the opportunity to apply their knowledge and skills in two major projects. The projects will involve designing and developing a fully functional game and a web site, showcasing the integration of programming, graphic design, and project management learned throughout the course. This course aims to prepare students for further studies in information technology, game design, or web development, as well as provide valuable skills for future careers in the rapidly evolving tech industry

AREAS OF INTEREST

INTERMEDIATE

Computer Science Progression:



COMPUTER PROGRAMMING I

Grade: 10, 11, 12

Length / Credits: 1 year / 1 credit

Academic Department: Mathematics

PREREQUISITES:

- » B+ or better in Algebra 2 or teacher recommendation.

DESCRIPTION:

This course is an introduction to the basic concepts of computer programming. C++ is the language that is used to develop the problem solving and logical thinking skills needed for the computer programming process. Topics covered will include: data structures, structured programming concepts, strings, arrays, structs, classes, problem solving techniques, and object oriented development.

ADVANCED

AP COMPUTER PROGRAMMING

Grade: 11, 12

Length / Credits: 1 year / 1 credit

Academic Department: Mathematics

PREREQUISITES:

- » Computer Programming I

DESCRIPTION:

This course is intended to provide a strong background in programming/computer science. Topics covered will include: data structures, structured programming concepts, strings, arrays, classes, data abstraction, problem solving techniques, and object - oriented development. Students may elect to take the AP exam in May.

AP ENVIRONMENTAL SCIENCE

Grade: 11, 12

Length / Credits: 1 year / 1 credit

Academic Department: Science

PREREQUISITES:

- » Completion of Foundations for AP Sciences with a "C" or better, or completion of Biology and Chemistry with a "C" or better.

DESCRIPTION:

AP Environmental Science is designed to be the equivalent of a one-semester introductory college course in environmental science. This course is interdisciplinary, giving students the unique opportunity to use an integrated approach while studying complex environmental topics. Students will use skills and concepts obtained in biological and physical science to address the following topics: Interdependence of Earth systems, Human Population Dynamics, Renewable and Nonrenewable Resources, Environmental Quality, Global Changes and their Consequences, Environment and Society.

★ *Dual credit opportunity*

SENIOR SCIENCE SEMINAR - HYBRID

Gr: 12

Length / Credits: 1 semester / .5 credit (2nd semester only)

Academic Department: Science

DESCRIPTION:

Senior Science Seminar is intended for seniors who will be taking science courses (both major and non-major) at a four-year college or university. Designed to mirror a college course, some days will be designated as face-to-face, in-classroom days, and others will be designated for independent work with the instructor available (similar to "office hours"). The intent of the course is to sharpen the skills that are essential for success in post-secondary science classes, as well as to explore current hot topics in all areas of science.

AREAS OF INTEREST

AREAS OF INTEREST



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