

# **COURSE REGISTRATION BOOKLET**

**2023-2024  
GRADES 9-12**

**NEW ULM HIGH SCHOOL  
1600 Oak Street  
New Ulm, MN 56073**

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## **NOTE TO STUDENTS AND PARENTS**

This booklet is an outline of courses and programs offered at New Ulm High School.

If there are any questions regarding specific courses, please feel free to contact any faculty member within that department. For questions regarding courses necessary for graduation or courses necessary within a planning process, feel free to contact the student's counselor. Not all courses will be available to all students. It is very important that students plan ahead to ensure they will get the courses they desire. When classes are full it may be necessary to select an alternate course. Seniors will be given the first opportunity to register for classes.

New Ulm High School is very proud of their staff as well as the curriculum they offer. Electives provide the opportunity for students to explore special areas of interest. They also make it possible for students to pursue specialized training and preparation for post high school education or to enter the job market.

Planning is an important component when registering for classes. We strongly recommend that students and parents work together in the registration process. Once courses are selected changing those courses is done on a very limited and restricted basis. Our staffing for the year is determined by the initial student registration as well as the student alternate choices. Deviating from that creates a hardship for other students and the school district. Schedule changes are limited and courses may not be available after the registration process is complete.

Please see the schedule change procedures listed in the following pages or ask your counselor if you have questions.

If there are any further questions, please contact the high school principal's office or high school counseling office. Our goal is to provide an excellent education, providing student choice, while meeting educational needs.

Mark Bergmann  
New Ulm High School Principal

## Schedule changes for grade 12

This policy is in place to ensure adequate teaching positions are in place. Teaching positions are determined based on initial student registration. Once students register, course sections and staffing positions are determined. If student schedule changes are allowed outside the scope of the approved policy, not only does it undermine the integrity of the registration process, it creates an unfair environment for students who are unable to receive courses that may have otherwise been available.

### Online Course Procedure

Student must notify district and complete required paperwork by the following timelines: (no exceptions)

\*Fall semester- last day of schedule changes in summer

\*Spring semester- before Winter break

### Schedule Change Procedure

- Schedule change requests will be granted/considered for the following even if registration procedures were not followed (provided it works into the student's schedule and the course is not at its maximum):
  1. Student needs a requirement for graduation.
  2. Student is scheduled for a course which they have already taken and passed.
  3. Student would like to challenge themselves by adding Advanced Placement, Honors or Concurrent Enrollment (College) courses.
  4. Student registered for a course out of sequence or without prerequisite.
    - \*\*example- registered for Advanced Foods but has not taken Basic Foods
  5. Student needs to be rescheduled for a course which they failed.
  6. Student needs a course to gain acceptance to a college or it is recommended by the college they take a course before college.
  7. A teacher determines that a student is unable, due to insufficient background knowledge, be successful in the class.
- Schedule change requests may be granted/considered for the following only if registration procedures were followed and the course does not drop below/exceed the number allowed (differs per class):
  1. Student would like to add a course in a potential career or interest area.
  2. Student's alternates were unavailable and a course was chosen for them.
  3. Student was scheduled into an alternate course and would like to consider a different alternate course which they registered for.
- Schedule change requests which will not be granted for any reason:
  1. Teacher changes
  2. Lunch changes
  3. If a student did not follow the registration procedures
    - \*\*late registration, no registration or did not include alternate courses
  4. Rearrange courses within the student's schedule

Schedule changes will only be done during the designated time period:

S1; changes must be completed during the summer (during the scheduled dates)

S2; changes must be completed before winter break (during the scheduled dates)

## Schedule changes for grades 9-11

This policy is in place to ensure adequate teaching positions are in place. Teaching positions are determined based on initial student registration. Once students register, course sections and staffing positions are determined. If student schedule changes are allowed outside the scope of the approval policy, not only does it undermine the integrity of the registration process, it creates an unfair environment for students who are unable to receive courses that may have otherwise been available.

### Online Course Procedure

Student must notify district and complete required paperwork by the following timelines:

(no exceptions)

\*Fall semester- last day of schedule changes in summer

\*Spring semester- before Winter break

### Schedule Change Procedure

- Schedule change requests will be granted/considered for the following even if registration procedures were not followed (provided it works into the student's schedule and the course is not at its maximum):
  1. Student is scheduled for a course which they have already taken and passed.
  2. Student would like to challenge themselves by adding Advanced Placement, Honors or Concurrent Enrollment (College) courses.
  3. Student registered for a course out of sequence or without prerequisite.  
\*\*example- student registered for Advanced Foods but has not taken Basic Foods
  4. A student needs to be rescheduled for a course which they failed.
  5. A teacher determines that a student is unable, due to insufficient background knowledge, be successful in the class.
- Schedule change requests may be granted/considered for the following only if registration procedures were followed and the course does not drop below/exceed the number allowed (differs per class):
  1. Student's alternates were unavailable and a course was chosen for them.
  2. Student was scheduled into an alternate course and would like to consider a different alternate course which they initially registered for.
- Schedule change requests that will not be granted for any reason:
  1. Teacher changes
  2. Lunch changes
  3. If a student did not follow the registration procedures  
\*\*late registration, no registration or did not include alternate courses
  4. Rearrange courses within the student's schedule

Schedule changes will only be done during the designated time period:

S1; changes must be completed during the summer (during the scheduled dates)

S2; changes must be completed before winter break (during the scheduled dates)

## **GRADUATION REQUIREMENTS (District Policy #613)**

### **I. PURPOSE**

The purpose of this policy is to set forth requirements for graduation from the school district.

### **II. GENERAL STATEMENT OF POLICY**

A. It is the policy of the school district that all students must earn all credits and complete all course requirements and graduation standards as established by the school board and the Minnesota Department of Education, in order to graduate from New Ulm High School.

### **III. Definitions**

- A. "Course credit" is equivalent to a student's successful completion of an academic year of study or a student's mastery of the applicable subject matter, as determined by the school district (Each semester course is equivalent to 1 credit unit)
- B. "Department" means the Department of Education
- C. "Section 504 Accommodation" means the defined appropriate accommodations and modifications that must be made in the school environment to address the needs of an individual student with disabilities.
- D. "Individualized Education Plan," or "IEP," means a written statement developed for a student eligible by law for special education and services.
- E. "Limited English Proficient" or "LEP" students means individuals whose first language is not English and whose test performance may be negatively impacted by lack of English language proficiency.

### **IV. Test Administrator**

The district will designate a test administrator. Said person shall be in charge of all test procedures and shall bring recommendations to the school board for approval.

### **V. Graduation Requirements**

- A. All students must participate in state testing as required by the State of Minnesota.
- B. All students must successfully complete the coursework in grades 7 and 8.
- C. All students must meet all local graduation requirements, which include:
  - Complete a minimum of 46 credits
  - Enroll in a minimum of 6 credits each semester

# NUHS Graduation Credit Requirements

## **46 credits to include the following;**

### **8 Credits of English**

Including: English 9 A/B or Honors English 9 A/B, English 10 A/B or Honors English 10 A/B, World Literature or Global Perspectives, Research and Writing or Vocational Writing, and two additional English courses selected from specific categories

### **6 Credits of Social Studies**

Including: American History A/B or Honors American History A/B, World History A/B or AP World History A/B, Human Geography or AP Human Geography, and Government or American National Government

### **1 Credit of Economics**

Can be earned through the Social Studies, Ag/IT or Business Department

### **6 Credits of Math**

Including: Fundamentals of Algebra A/B (Specific Student Need), Geometry A/B or Honors Geometry A/B, Algebra II A/B or Honors Algebra II A/B, Probability & Statistics and one math elective (Algebra I does not fulfill this final elective math requirement)

### **6 Credits of Science**

Including: Science 9 A/B, Fundamentals of Biology A/B or Biology A/B or Honors Biology A/B, and *one* of the following: Chemistry A/B or Investigating Chemistry A/B or Investigating Physics A/B or Physics A/B

### **2 Credits of Fine Arts**

Can be earned through the Music or the Art Department

### **3 Credits of Health/Physical Education**

Including: Health, Forever Fit and one elective within PE/Health or Health Science

### **2 Credits of Career Tech Ed (CTE) Courses**

Can be earned through the AG/IT, Business, Computer Science or FACS Department

### **12 or more elective credits** (selected by the student)

*\*\*Or: Have met the requirements of an IEP, LEP, 504, CTE Pathway or SEE Program.*

## **GRADE CLASSIFICATION REQUIREMENTS**

Grade classification does not mean that all requirements of the previous grade have been met. The number of credits earned by a student determines which grade a student is classified within the state reporting system.

A student in grade 9 must earn a minimum of 6 credits at the completion of their 9<sup>th</sup> grade year to be classified as a grade 10 student the following year.

A student in grade 10 must have earned a minimum of 18 credits at the completion of their 10<sup>th</sup> grade year to be classified as a grade 11 student the following year.

A student in grade 11 must have earned a minimum of 30 credits at the completion of their 11<sup>th</sup> grade year to be classified as a grade 12 student the following year.

A student in grade 12 must have earned 46 credits to graduate.

## **PREPARING FOR POST HIGH SCHOOL EDUCATION**

Each college and university has its own admission requirements. Most colleges and universities have begun to take a holistic approach and admissions requirements can differ greatly. Therefore, we would encourage you to directly visit the website of any college or university that is of interest to you. Check with the university admissions office for details. Even if you don't meet the minimum requirements, you may be considered for admission under special provisions. Apply early for the best chance to be admitted. Universities and programs may not have room for all qualified applicants. Here are some guidelines which have generally been used in the past.

### **4-Year Minnesota State Universities**

The seven state universities generally will admit you as a first-year student if you can answer "yes" to at least one of these questions:

1. Did you graduate in the top half of your high school graduating class?
2. Did you score 21 or higher on the ACT standardized test?
3. Did you receive a combined score of 1,000 on the current SAT standardized test or its corresponding score on the redesigned SAT standardized test?



Some of the state universities may ask you to meet slightly different requirements to be admitted. Check with the university admissions office for details. Even if you don't meet the minimum requirements, you may be considered for admission under special provisions. (Apply early for the best chance to be admitted. Universities and programs may not have room for all qualified applicants.)

For admission to a state university, it is **recommended** that the student has completed the following high school courses:

- Four years of English, including composition, literature and speech
- Three years of math, including two years of algebra, one of which is intermediate or advanced algebra, and one year of geometry
- Three years of science, including one year each of a biological and a physical science, all with significant laboratory experience
- Three years of social studies, including one year each of geography and U.S. history
- Two years of a single world language, including non-English native languages and ASL
- One year of fine arts (visual arts and the performing arts of theater, music, dance and media arts)

(Language taken from Minnesota State Colleges and Universities admission requirements)

### **University of Minnesota- Twin Cities**

Admission requirements: Grade point average/class rank, ACT

- 4 years English
- 4 years math [elementary algebra, geometry, intermediate algebra (integrated math 1, 2 & 3). Examples of 4th year math include calculus (preferred), pre-calculus, analysis, integrated math 4.]
- 3 years science (including 1 year each of physical and natural science and 1 year with a significant laboratory experience)
- 3 years social studies [Including one year each of U.S. history and geography (or a course that includes a geography component such as world history, western civilization, or global studies)]
- 2 years of a single second language
- 1 year visual or performing arts

### **University of Minnesota- Duluth and Morris**

Admission requirements: Grade point average/class rank, ACT

- 4 years English
- 4 years math (including 2 years of algebra and 1 year geometry)
- 3 years science (including 1 year each of biological and physical science)
- 3 years social studies (including 1 year of U.S. History and geography)
- 2 years of a single second language
- 1 year of visual or performing arts
-

### **2-Year Minnesota State College**

The two-year state community and technical colleges have an open admissions policy. Meaning:

- You can enroll if you have a high school diploma or a GED. Even without those, you may be admitted if you demonstrate potential for success in college.
- You don't have to take a standardized test to be admitted, and your high school grades and class rank are not considered as a part of the admissions process.
- You may be asked to take a placement test that will tell you if you need to take remedial courses, which will not count toward a degree, before you can take college-level courses. Many students need just one remedial course, often in math or English. If you have taken a "college prep" class in high school, you're more likely to do well on the test.

### **Minnesota Private 4-Year Colleges**

Admission requirements: admission requirements vary, but may require an essay or interview, ACT or SAT test score, grade point average or class rank.

### **Out of State Schools**

Admission requirements: admission requirements vary, ACT or SAT, GPA/class rank.  
School requirements will vary according to colleges and/or programs. Students must check with each college for individual requirements.

## **NCAA Freshman Eligibility Standards** **([www.ncaa.org](http://www.ncaa.org))**

### **Division I**

- Earn a minimum 2.3 required grade point average in all core courses.
- Graduate from high school.
- Complete the following 16 core courses:
  - 4 years of English
  - 3 years of mathematics (Algebra I or higher)
  - 2 years of natural/physical science
  - 1 year additional English, mathematics or natural/physical science
  - 2 years of social studies
  - 4 years of additional courses from any of the above or foreign language

### **Division II**

- Earn a minimum 2.2 required grade point average in all core courses.
- Graduate from high school.
- Complete the following 16 core courses:
  - 3 years of English
  - 2 years of mathematics (Algebra I or higher)
  - 2 years of natural/physical science
  - 3 year additional English, mathematics or natural/physical science
  - 2 years of social studies
  - 4 years of additional courses from any of the above or foreign language

## **Advanced Educational Opportunities**

### **Post Secondary Enrollment Options (PSEO)**

*PSEO contact person at NUHS- Amanda Frank (A-K) or Ryan Ziemer (L-Z)*

Postsecondary Enrollment Options (PSEO) is a program that allows 10th, 11th and 12th grade students to earn college credit while still in high school, through enrollment in and successful completion of college-level courses. With traditional PSEO, these courses are generally offered on the campus of the postsecondary institution; some courses are offered online.

Postsecondary institutions are not allowed to charge PSEO students for tuition, textbooks or support services. Students may be charged for equipment that becomes their property when the course or program is completed.

Most PSEO courses are only open to high school students during their 11th and 12th grade year, with each participating college and university setting their own requirements for enrollment into the PSEO courses and programs. Students may take PSEO courses on a full- or part-time basis.

Many two and four year colleges and universities in Minnesota offer online courses and some of them offer online degrees and certificates. Through the wide array of online courses offered in Minnesota higher education, it is possible for PSEO students in our state to complete the Minnesota Transfer Curriculum requirements and/or other courses that could result in an award in addition to their high school diploma.

By March 1 of each year, a district must provide up-to-date information on the district's website, and in materials that are distributed to parents and students, about the program--including information about enrollment requirements and the ability to earn postsecondary credit--to all pupils in grades 8, 9, 10, and 11.

Students must meet the PSEO eligibility requirements and abide by participation limits. However, if a school district determines a pupil is not on track to graduate, they may still continue to participate in PSEO.

### **How to Enroll in PSEO**

Interested and eligible 11th- and 12th-grade students should contact the postsecondary institution to find out their eligibility requirements, which courses are offered and what the application process is at that institution. [Access the list of Participating Postsecondary Institutions](#) for a list of schools and their contact information. Interested and eligible public 10th-grade students should contact the postsecondary institution to find out which Career and Technical (CTE) courses are offered and what the application process is at that institution.

To assist the district in planning, students are required to inform their district of their intent to enroll in PSEO courses during the following school year by May 30. Students should seek Counseling from their high school counselor to determine if PSEO is the right fit for them and their academic plan. Interested students must complete the *Notice of Student Registration Form* each semester.

### **PSEO State-Approved Early/Middle College Programs**

PSEO State- Approved Early/Middle College Programs allow eligible students to earn a high school diploma while also earning post secondary credits or conferring a degree or credential including a certificate, diploma or an associate’s degree. Students are considered eligible if they are enrolled in a core school day State-Approved Alternative Program (SAAP) under the graduation incentives program as defined by MDE. Access a [list](#) of currently approved PSEO State-Approved Early/Middle College Programs in Minnesota.

### **PSEO for 10th Graders to take Career and Technical Education (CTE) courses**

Legislation allows eligible 10th-grade students to enroll initially in one Career and Technical Education (CTE) course through PSEO. If the student earns a “C” or higher grade in this first course, she/he is eligible to take additional CTE courses while in 10th grade. In order to be eligible, a 10th-grade student must have met the proficiency level of “meets or exceeds” on the 8th-grade MCA reading test. If the student did not take the MCA, another reading assessment accepted by the enrolling postsecondary institution can be substituted.

The Minnesota Department of Education has developed a Policy entitled: Minnesota Department of Education Alternative Eligibility Options Policy for 10th Grade Students with a Disability who wish to Participate in Career and Technical Education Classes through the Postsecondary Enrollment Options Program. Look online to access the policy, procedures, and the Modification Request Form.

### **Transportation Reimbursement for Qualified Students**

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. Look online to access the Postsecondary Enrollment Options Mileage Reimbursement Program Instructions. If you have any questions regarding the mileage reimbursement for low-income students' participation in the PSEO program, contact your school counselor.

## **Concurrent Enrollment Options**

*Concurrent Enrollment contact person at NUHS- Amanda Frank (A-K)*

NUHS offers Concurrent Enrollment courses through Minnesota State University- Mankato (MSU-Mankato), Southwest Minnesota State University- Marshall (SMSU), And Bemidji State University (BSU). Concurrent enrollment courses are at no cost to the family.

### **Grades Eligible**

9, 10, 11 and 12 (priority is given to 11th and 12th graders)

**11th and 12th Graders (PSEO and Concurrent Enrollment):** Any public, nonpublic, home school or American Indian-controlled tribal contract or grant student classified as an 11th or 12th grader who meets residency requirements outlined in the Residency Guidelines. These students, if accepted by a postsecondary institution, may enroll in nonsectarian courses or programs at that postsecondary institution. Each participating college and university sets its own requirements for admission into PSEO or courses and programs.

**9th and 10th Graders (Concurrent Enrollment):** Any public or American Indian-controlled tribal contract or grant student classified as a 9th or 10th grader may apply to enroll in nonsectarian concurrent enrollment courses through courses according to agreements if, 1) the school district and the eligible postsecondary institution providing the course agree to the students' enrollment or 2) if the course is a world languages course available to 11th and 12th grade students and consistent with Minnesota Statutes, section 120B.022 governing world language standards, certificates and seals.

### **MSU Requirements**

Grade 12

- You rank in the Top 50% of your high school class OR
- You have a GPA of at least a 3.0 (on a 4.0 scale) OR
- You achieve a 21 or higher composite score on the ACT exam (and have a 2.7 or higher GPA)

Grade 11

- You rank in the Top 67% of your high school class OR
- You have a GPA of at least a 3.3 (on a 4.0 scale) OR
- You achieve a 24 or higher composite score on the ACT exam (and have a 2.7 or higher GPA)

Grades 9 & 10

- Have approval from the university President AND score in the 90<sup>th</sup> percentile rank on a **nationally** normed test, such as the ACT, OR
- Be in the top 10% of their class

## **SMSU Requirements**

Grade 12

- Top 1/2 of class and 3.0 GPA or higher

Grade 11

- Top 1/3 of class and 3.0 GPA or higher

Grades 9 & 10

- Must score in the 90<sup>th</sup> percentile rank on the ACT in the curriculum area they wish to take a class, be in the top 10% of their class and meet all prerequisites to the concurrent enrollment course.

## **Bemidji State Requirements**

Grade 12

- 2.8 GPA **AND**
  - Must be in the top 50% of their class**OR**
  - Score at or above the 50th percentile on a nationally standardized test (ACT or SAT)

Grade 11

- 2.8 GPA **AND**
  - Must be in the top third of their class**OR**
  - Score at or above the 70th percentile on a nationally standardized test (ACT or SAT)

\*\*Additionally, priority is given to students in Grades 11 and 12. If the course is full, students in grades 9 and 10 will not be able to take the course.

## **Credit Conversion**

Concurrent Enrollment credits are calculated for high school credit at .5 high school credit per college credit. For example, if a Concurrent Enrollment course is valued at 4 credits, a student will earn 2 high school credits for the successful completion of that course.

## **College Study Time**

College study time runs in conjunction with Concurrent Enrollment. Students who register for 4 or more college credits may utilize 1 hour of college study time; this acts as an open hour, giving more time to study for college classes. If students are interested in taking an overload, please talk to your counselor.

## **Advanced Placement (AP) Courses**

*Advanced Placement contact person at NUHS- Ryan Ziemer*

New Ulm High School has advanced courses that allow students an opportunity to earn college credit by taking a test at the end of the year. Students who earn a 3, 4 or 5 on the AP test are generally granted college credit in college.

### **Grades Eligible**

NUHS offers AP courses for students in grades 10, 11 and 12

### **Eligibility Requirements**

Each course may have a different prerequisite. Check the registration book when registering for these courses to ensure eligibility.

## **College Level Entrance Program (CLEP)**

*CLEP contact person at NUHS- Ryan Ziemer or Amanda Frank*

CLEP exams are tests that can be taken in an attempt to test out of college general education courses. Passing a CLEP test will earn a student college credit at all Minnesota State Colleges and Universities (MNSCU schools) as well as many other colleges and universities. There are 33 subject areas and each test is approximately 90 minutes (except English Composition which is 120 minutes). CLEP tests cost \$90 and the testing site may charge an additional fee. More information can be found on the [College Board Website](#).

## **Online Educational Options**

*Online education contact person at NUHS- Ryan Ziemer or Amanda Frank*

Online courses are available in multiple ways. Two key points when making a decision to take an online course. First, if a student registers for an online course, they must replace an existing course. Online courses must be part of an approved program by the Minnesota Department of Education. Second, if a student takes an online course, in addition to their existing full schedule of courses, they are responsible for the additional financial components of the added class. This process must be completed by the deadlines listed on the “Schedule changes for grades 9-11” or “Schedule changes for grade 12” sheet in the front of this booklet.



## **Course Levels**

Courses will be classified as Level I, II or III and each will have specific requirements to meet in order to retake a summative assessment which does not have a rubric. Course levels will be documented on the course syllabus.

**Level I** - Course is eligible for retakes and students have an opportunity to go back and complete course work for work assigned prior to the initial assessment.

\*Identified as a grade 9 or 10 course, or 9 - 12 grade course with no prerequisite, unless it is an honors or AP course.

**Level II** - Course is eligible for retakes only if formative work for the unit is submitted prior to the summative assessment.

\*Identified as courses available only to grade 11 & 12, all honors courses (including grade 9 and 10 honors courses), and all grade 9 - 12 courses with a prerequisite.

**Level III** - College in the Schools (CIS), Advanced Placement (AP), or other advanced courses which are not eligible for retake, or the course has shared and specific retake policies with the cooperating institution and/or college instructor.

\*Identified as all Concurrent & AP Courses.

# COURSE INFORMATION

## Grades 9-12

### AGRICULTURE / INDUSTRIAL TECHNOLOGY (AG/IT)

(All Courses Qualify for CTE and CTE Pathway)

#### **102 - NATURAL RESOURCES Level 1 Course**

**Grades 9-12 Elective 1 Credit**  
**Prerequisites: None**

This course focuses on fish and wildlife management, outdoor recreation, advanced hunter training, Ecology, Biomes, Ecosystems, Habitats, Carrying Capacities, and Symbiosis. Large Game Animal, Small Game, Upland Game Bird, Waterfowl, and Fish Identification will also be covered. Boone & Crockett Antler scoring, and hands-on projects are a part of this class. Guest speakers, field trips, and projects from all areas of natural resources and resource management will add interest to active learning. This course would begin to prepare students for careers in the DNR, forestry, wildlife management, and fisheries areas.

#### **103 - ADV. NATURAL RESOURCES Level 2 Course**

**Grades 9-12 Elective 1 Credit**  
**Prerequisite: Natural Resources**

The advanced continuation of this course from Wildlife & Fisheries will conclude with managing and conservation practices of our Natural Resources; with DNR requirements and environmental aspects of energy and outdoor recreation. Highlights include, survival skills/kit construction, navigation skills (compass/GPS and use of DRONE Technology), management of environmental issues, soil and water management, Fossil Fuels, Alternative Fuel Resources utilization of greenhouse wind turbine & solar energy, and a field trip for Anaerobic Digestion (methane fuel) to a local dairy farm will be included. Adv. Natural Resources will incorporate weather exploration of tornadoes, hurricanes, lightning and the water, carbon, and nitrogen cycles. Tours will include local state parks, wetlands, and DNR headquarters. Students will spend time in outdoor classroom areas experiencing the natural resources in the local area and applying the concepts learned in the course. This course prepares students for careers in the DNR, forestry, wildlife management, and fisheries areas and interested in becoming ecologists, biologists and pollution control specialists, or conservation officers.

#### **104 - HORTICULTURAL SCIENCE Level 1 Course**

**Grades 9-12 Elective 1 Credit**  
**Prerequisite: None**

Give your green thumb a workout in this fun and exciting course! Horticulture is designed to give students a background in horticultural science and the many career opportunities in the nursery, garden, and floral design industries. Course time will be spent in the classroom and greenhouse completing numerous projects and activities. Students will gain skills to grow and care for a wide range of plants, create their own flower arrangements for special occasions, and much more. Throughout the semester topics will include plant anatomy, propagation, identifying pests and diseases, and marketing garden products.

**105 - LANDSCAPE & GREENHOUSE MGMT**  
**Level 1 Course**

**Grades 9-12 Elective 1 Credit**  
**Prerequisite: None**

This offering focuses on the Landscape/Nursery career areas in plant science and the application of associated arts and sciences relating to the plant industry, landscape, & landscape design, turf management & nursery management areas. This class will have the opportunity to attend tours and field trips to see how course learning is applied to real-world projects. Students will utilize greenhouse management skills to raise flowers and work with hydroponics and aquaponics. Students will be utilizing landscape design concepts and principles, through scale drawing and drafting, along with CAD software programs. Furthermore, students will be outdoors constructing landscapes, applying concepts and conducting experiments.

**106 - ANIMAL SCIENCE**  
**Level 1 Course**

**Grades 9-12 Elective 1 Credit**  
**Prerequisite: None**

Animal Science focuses on the cutting edge science of animal agriculture. Animal science is approached from traditional to nontraditional domesticated animals and care practices. Animal Agriculture will be studied through domesticated livestock species and small animals. Meat & Food Science will be studied through wholesale and retail food products (cooking meats labs), Dairy Products (milk, cheese, ice cream labs) and animal by-products used in society. Students will learn technical and scientific concepts through Animal Anatomy & Physiology, Livestock Evaluation Techniques, Animal Health & Welfare, Animal Nutrition & Digestion, Animal Reproduction and Embryo Transfer practices will conclude the semester. This course provides great knowledge of personal animal care and related careers. Students will have the opportunity to earn college credit through the articulation agreement. See your AG/IT Teacher for information.

**107 - VETERINARY SCIENCE & GENETICS**  
**Level 1 Course**

**Grades 9-12 Elective 1 Credit**  
**Prerequisite: None**

Veterinary Science focuses on the field of small and large animal veterinary medicine. Students will be able to try hands-on veterinary technician skills including animal restraints, vaccinating, suturing, and wound wrapping. Coursework will also include administering animal health care procedures, diseases, anatomy & physiology. Biotechnology is explored through the basics of science and today's emerging genetic engineering and career opportunities. Students will also study animal genetics, reproduction, and breeding. Students interested in becoming a veterinarian, vet assistant, vet technician, or working in livestock care should consider taking this course.

**114 - WELDING TECHNOLOGY**  
**Level 1 Course**

**Grades 9-12 Elective 1 Credit**  
**Prerequisite: None**

Welding is designed for students to gain knowledge and skills that are key to a vast number of careers. Essential learning, experience and skill development are gained through arc welding, oxyacetylene welding, plasma cutting, and wire feed (MIG) welding. In addition, the most rapidly growing TIG (Tungsten Inert Gas) welding method is a component of this course. Learning is enhanced through the use of online resources, community experts and instructional visits to business using these practices. Students also share their skills through school and community service work. Students will have the opportunity to earn college credit through an articulation agreement.

**116/116Y - ADVANCED WELDING/FABRICATION**  
**Level 2 Course** (Location: CTE center)

**Grades 10-12 Elective 2 Credits**  
**Prerequisite: Welding Technology**

This offering is for those individuals who desire to continue building their mechanical skills preparing for their career pathway. The student and instructor will create an individual personalized learning curriculum based on the student's interests, abilities and aptitude. Students will then select projects that will expose them to blueprint reading, design and advanced processes of a construction project. Advanced skills in welding procedures, advanced application of power tools, product design and fabrication, cost and price analysis, along with emerging technologies are key aspects of this class. Instruction is directly connected to individual and team projects. A proficient working knowledge in and about the various mechanical disciplines is a key outcome of this class. Learning is enhanced through the use of online resources, community experts and instructional visits to business using these practices. Students also share their skills through school and community service work. Students will have the opportunity to pursue certain Welding Certifications if their skills allow.

**122/122Y - INTERNSHIP EXPERIENCE**  
**Level 2 Course**

**Grades 11-12 Elective 1 Credit**  
**Prerequisite: Individual Transportation**

Do you want to be successful in your higher education and the next stage of your life? Are you missing the link that connects the classroom to a career opportunity? If so, then you should consider taking this course! Self-motivated students who are interested in taking charge of their career development will gain valuable experience in a career they are interested in. During the semester, students will work with the instructor to find placements that fit their career interests. This class will meet in person for the first two weeks of the semester and the last week of the semester. In between, students will be at the internship site each day during the class period. While in class, students will develop their career plan, study workplace safety & regulations, and have leadership opportunities. Students will also prepare for job seeking by developing their resume, cover letter, and interviewing skills. Students can take this course for two semesters.

**126 - INTRO TO MECHANICS**  
**Level 1 Course**

**Grades 9-12 Elective 1 Credit**  
**Prerequisite: None**

An introductory course for students to study small engines and automotive maintenance. Students will learn small engine theory, disassemble, reassemble and test run small gas engines. Students will perform small gas engine troubleshooting, basic maintenance and repair tasks. The second part of the course will cover automotive systems, and basic maintenance tasks. In this course, students will explore post-secondary opportunities and careers in related fields.

**127/127Y - SMALL ENGINES/ATV REPAIR**  
**Level 2 Course** (Location: CTE center)

**Grades 10-12 Elective 2 Credits**  
**Prerequisite: Intro To Mechanics**

After completing mechanics, students in this class will have an opportunity to further develop their skills and knowledge of small engines. Students will go in depth into the small engine systems and complete more advanced repair jobs. In this course, advanced students will have the opportunity to work on Eagle Enterprise projects developing their skills and gaining experience on the job.

**128/128Y - AUTO MECHANICS**  
**Level 2 Course** (Location: CTE center)

**Grades 10-12 Elective 2 Credits**  
**Prerequisite: Intro To Mechanics**

After completing mechanics, students will further develop their skills and knowledge in the automotive industry. Students will advance their knowledge of automotive systems and complete more advanced repair jobs. Basic auto body skills including body panel dent removal, welding, and painting will also be covered. In this course, students will spend time in a local business developing their skills and gaining experience on the job.

**129/129Y - AUTO BODY**  
**Level 2 Course** (Location: CTE center)

**Grades 10-12 Elective 2 Credits**  
**Prerequisite: Intro To Mechanics**

After completing mechanics, students will further develop their skills and knowledge in the automotive industry. Students will advance their knowledge of automotive systems and complete more advanced repair jobs. Basic auto body skills including body panel dent removal, welding, and painting will also be covered. In this course, students will spend time in a local business developing their skills and gaining experience on the job.

**130 - AGRICULTURAL ECONOMICS**  
**Level 2 Course**

**Grade 11-12 Required 1 Credit**  
**Prerequisite: None**

*\*Meets state and district Economics requirements.*

Agricultural Economics (Ag Econ) focuses on the fundamental economic principles and their application in production, distribution and marketing of food and business management, marketing and finance; veterinary business management; community ag economic development, retail sales, and consumption of food from farm to fork; environmental policy and planning; and international trade and development. The class will involve exploration of careers in ag sales via guest speakers and other audio visual aids. Other topics include building and refining sales abilities, delivering effective sales presentations and closing the sale, utilizing principles of market research including market segmentation methods along with scarcity, supply and demand, money management and banking. Agricultural Economics involves integrated networks of partnerships, competitors, support services, and government regulations that have evolved out of traditional food supply chains.

**131 - INTRO TO THE TRADES**  
**Level 1 Course** *\*Required for CTE Pathway*

**Grades 9-12 Elective 1 Credit**  
**Prerequisite: None**

The Introduction to the Trades course will provide a career exploration opportunity for students into high skill, high wage, and high demand building trade occupations. Topics lasting approximately 2 weeks will include but are not limited to: Surveying, electrical, plumbing, floor layers, drywall/painting, HVAC, brick/block layers, and large equipment operators. Students will get an opportunity to look at careers in these areas, as well as get a hands-on opportunity to experience these trades.

**132/132Y - CARPENTRY**  
**Level 2 Course** (Location: CTE center)

**Grades 10-12 Elective 2 Credits**  
**Prerequisite: Basic Woods**

During CARPENTRY I students will be introduced to the basic skills of carpentry and rough framing and the construction industry. Students will be completing units in safety, proper material handling, estimating, maintaining power tools and hand tools, blueprint reading, blueprint drawing, wall and floor framing, and window and door installation. Students will also complete units on concrete forming, and exterior finishes, including roofing. Students will also have time to explore careers and jobs in this industry, including carpenters, estimators, masons, and roofers.

**135 - RESIDENTIAL MAINTENANCE**  
**Level 1 Course**

**Grades 9-12 Elective 1 Credit**  
**Prerequisite: None**

This course will cover repair of roofs, gutters, walls, floors, furniture, water and waste systems, electrical systems, heating and cooling systems, insulation, and mechanical applications that relate to interior and exterior home maintenance. These experiences will expose the student to the trades, professions, and career opportunities related to the maintenance and repair of all structures and systems that are common to daily living. In addition, this class will look at houses from an inspection viewpoint when buying a home. Through exposure, demonstration, and hands-on experiences, the student will become a better educated consumer, will become more self-sufficient and less dependent on the use of costly outside service providers, and will gain the knowledge of the structure and various systems that need repair and maintenance as opposed to the commonly referred practice of a "throw away society".

Careers relating to this course will be looked at including carpentry, floor layers, cement workers, painters, etc. Field trips and guest speakers will be an integral part of this class. This class is project based.

**136 - METALS I**  
**Level 1 Course**

**Grades 9-12 Elective 1 Credit**  
**Prerequisite: None**

Metals Fabrication is a hands-on course which includes practical experiences in the fabrication of products. Students begin with a basic understanding of metallurgy, then students will construct a variety of projects using a variety of skills as well as develop mechanical and problem solving aptitude. Projects will be created through metal manufacturing, using metal breaks, spot welding, plasma CNC, pipe fitting, and soldering. Students will also be introduced to the machinery necessary to manufacture metals. A CAD unit will also be incorporated into this class. This class will provide students with practical applications for those students interested in pursuing a career in the metal industry, engineering or manufacturing.

**137 - METALS II**  
**Level 2 Course** (Location: CTE center)

**Grades 10-12 Elective 2 Credits**  
**Prerequisite: Metals I**

This course is designed to acquaint students with industry practices. Metals II is a semester class that dives into using CAD (Computer Aided Drafting) & CAM (Computer Aided Manufacturing) software to create projects. From there, students will complete projects using the CNC Lathe and MILL, as well as the Plasma Table. Students will also advance their knowledge of metal characteristics, like how heating and cooling changes the molecular structure of metal. Advanced safety measures and maintenance of equipment are also covered.

**140 - BASIC WOODS**  
**Level 1 Course**

**Grades 9-12 Elective 1 Credit**  
**Prerequisite: None**

Basic Woods introduces the student to the woodworking industry. We will be looking at some of the foundational practices of the industry. Included in this course are units on Safety, Measurement, Blueprint reading, Project layout, various types of woods and wood joinery techniques, and typical finishes for wood projects. Each student will become accustomed to working with both hands and power tools safely. Each student will be completing 5 projects during the semester. Major emphasis will be on learning how to safely operate power machines and the many operations that can be performed with them. Project selection, plan designs, cost calculations, and project production will be a major part of the class. Students will write a technical paper at the conclusion of their self-designed project.

**142/142Y - ADVANCED WOODS/CABINETRY**  
**Level 2 Course (Location: CTE center)**

**Grades 10-12 Elective 2 Credits**  
**Prerequisite: Basic Wood**

Advanced Wood Technology is a course designed for students who desire to continue building their skills and preparing for a career pathway in this field. The focus will change from a beginning woodworking project to building cabinets, vanities, and desks. The student and instructor will create an individual personalized learning curriculum based on the student's interests, abilities and aptitude. Students will then select projects that will expose them to blueprint reading, design and advanced processes of a construction project. During this course students will have the experience of designing, estimating cost, building and finishing a project. Instruction is directly connected to individual and team projects. A proficient working knowledge in and about the various mechanical disciplines is a key outcome of this class. Learning is enhanced through the use of online resources, community experts and instructional visits to business using these practices. Students also share their skills through school and community service work.

**145 - CAD (Computer Aided Design)**  
**Level 1 Course (Location: CTE center)**

**Grades 9-12 Elective 2 Credits**  
**Prerequisite: None**

This course provides students with a broad introduction into 2-dimensional and 3-dimensional Computer-Aided Design (CAD) and modeling with a focus on construction and architecture-specific applications. Students will learn how to use industry-leading CAD software programs including SolidWorks, AutoCAD, Fusion 360, and ENroute. Understanding of these programs will allow students to model construction projects, and then create and distribute basic, industry-standard architectural drawings. Students will learn how to 3D print their drawing to have physical prototypes.

**146 - MECHATRONICS/ROBOTICS**  
**Level 1 Course (Location: CTE center)**

**Grades 9-12 Elective 2 Credits**  
**Prerequisite: None**  
(Not available for 2023-2024 School Year)

Mechatronics will introduce students to automated systems and components commonly used in engineering and manufacturing. Students will use training systems to learn about electronics, mechanics, pneumatics, hydraulics, robotics, and computer control systems to create simulated automated manufacturing production systems. Fluid power principles and applications of hydraulics and pneumatics are enhanced through fluid power experiments and investigations, community resources, and online training. This course is designed for students interested in engineering and manufacturing. Course work will include career exploration as related to course content.

**148 - CROPS & SOILS**  
**Level 1 Course**

**Grades 9-12 Elective 1 Credit**  
**Prerequisite: None**

Crops and soils will introduce students to the in-demand careers available in agronomy. Crop production is the #1 agriculture industry in Minnesota, and during this course all aspects about crop production will be covered including soils, plant nutrition, fertilizer, weed and pest management, and precision agriculture. Planting, Harvesting, and Marketing of Specific Crop Studies will include: Corn, Soybeans, Alfalfa, Oil Crops, Legumes, and Cereal grains.

**149Y - EAGLE ENTERPRISES**  
**Level 2 Course** (Location: CTE center)  
**area of interest and complete student application form (Available in the Counseling Office).**

**Grades 11-12 Elective 4 Credits**  
**Prerequisite; Completed CTE course(s) in**

Eagle Enterprises is a student-led business that strives to offer opportunities for students to get involved in projects and eventually lead projects themselves all while gaining credit towards graduation. It is a year-long four credit class that meets for two hours each day. This course offers more than standard classroom instruction. Students will gain real-life experiences of problem-solving, running a business and working in professional career roles. Students will be expected to follow the 10 Essentials of Career Success at all times. At the end of this experience, students will have a portfolio and a career plan for their future. Positions available include: marketing, finance, project manager, CAD designer, woodshop carpenter, job-site carpenter, metal fabrication, small engines, floral/greenhouse, graphic design (shirt making & printing).



## ART (FINE ARTS)

### **150 - ART FOUNDATIONS**

**Grades 9-12 Elective 1 Credit**

#### **Level 1 Course**

**Prerequisite: None**

Art Foundations is our introductory class to the different disciplines of Art such as drawing, painting, sculpture, pottery and crafts. Units of study will focus on the elements of art as we relate them to art of the past and create your own works. Students will gain skills in drawing, painting, art criticism and judgment. Art Foundations is the prerequisite for the advanced level courses of Drawing and Painting, Digital Art and Pottery/Sculpture.

### **153 - DRAWING & PAINTING**

**Grades 9-12 Elective 1 Credit**

#### **Level 2 Course**

**Prerequisite: Art Foundations**

This is an art course for the student with a particular interest or ability in the fine art areas of drawing and painting. The drawing and painting materials of pencil, ink, pastel, watercolor, tempera, acrylic and mixed media will be used. Students will use a variety of supports such as drawing and illustration boards, paper and painting canvases. Color, color theory and proper techniques of watercolor and acrylic painting will be learned. The works of past and modern artists will be studied in historical and cultural contexts to further understand the use of the elements of art and principles of design in the creation of drawings.

### **156 - DIGITAL ART**

**Grades 9-12 Elective 1 Credit**

#### **Level 2 Course**

**Prerequisite: Art Foundations**

In Digital Art students will learn to apply the elements of art and principles of design studied in Art Foundations and create meaningful works of art using digital technology and Affinity Photo software. Students will learn about digital photography, computer application and artistic considerations in the practical application of digital media as they explore the job expectations and creative aspects of the graphic designer and the art forms they produce. Students will use Affinity Photo software as a dark room to correct their photographs as well as tools for creating original art for use in advertisements, CD covers, posters and stand-alone works of art. Students will gain appreciation for art as a means of communication and expression, and will further develop their skills in art criticism and judgment as they experience the new world of digital imagery.

### **158 - ADVANCED DIGITAL ART**

**Grades 10-12 Elective 1 Credit**

#### **Level 2 Course**

**Prerequisite: Digital Art**

In Advanced Digital Art, students will expand on their knowledge and abilities using digital media in programs such as Affinity Photo, iMovie, and Stop Motion among others. Students will explore the career fields of Graphic Design, Illustration, Advertising and Media Productions and create works that would be typical in those professions. Many of the concepts learned in Digital Art will be expanded upon as well as further exploration in the areas of Photography, web design, graphics, and video production and editing.

**160 - POTTERY/SCULPTURE**  
**Level 2 Course**

**Grades 9-12 Elective 1 Credit**  
**Prerequisite: Art Foundations**

Pottery/Sculpture is a semester course in which students will explore the history and purpose of 3-dimensional art, which is art viewed in the round, different from 2-dimensional art like drawing and painting. The student will gain a solid understanding of the medium of clay, its historical and cultural perspectives, and the process through which the artist takes it to completion of an art form. Emphasis will be on basic hand building techniques of slab, coil, pinch and mold construction, and proper glazing and firing. The sculptural techniques of modeling, carving and assembling will be explored by doing sculptures in each method. It is the prerequisite for the Advanced Pottery/Sculpture semester course listed below.

**162 - ADVANCED POTTERY/SCULPTURE**  
**Level 2 Course**

**Grades 10-12 Elective 1 Credit**  
**Prerequisite: Pottery/Sculpture**

In this semester class students interested in clay and sculpture will have a chance to acquire some advanced skills in wheel and handwork. Some time will be spent perfecting hand building skills and using clay as a material for sculpture. Some projects will be of a functional nature, meaning they will be useful as well as decorative. Some will focus more on artistic merit and expression. The different types and methods of sculpture learned in the previous class will be further explored in freestanding and relief sculpture using some materials in addition to clay.

**166 - ADVANCED ART**  
**Level 2 Course**

**Grades 11-12 Elective 1 Credit**  
**Prerequisite: Art Foundations and 2 upper level art classes.**

Students that have shown a strong ability and interest in Art are invited to take this independent study course. The student and instructor will create an individualized curriculum based on the student's interests, abilities and creativity. Students will have a chance to explore and expand their skills in mediums they have had success within the earlier classes such as pottery, drawings and paintings or digital media as well as explore other mediums not covered in class. Students considering going onto further education in the creative fields of art and design are encouraged to take this class to help develop their skills, creativity and explore more advanced mediums and projects as well as prepare a professional portfolio.

**630/630Y - FINE ARTS AIDE**  
**Level 2 Course**

**Grades 10-12 Elective 1 Credit**  
**Prerequisite: Complete Student Information form (Available in the Counseling Office).**

Fine Arts Aide (FAA) Program for Exceptional Learners is a unique opportunity for students of varying ability levels and backgrounds to come together on equal terms through fine arts activities. This will include, vocal music, instrumental music, and Visual Arts. Your role and responsibility as a FA Aide is to offer practical experiences to our exceptional learners. This program provides opportunities for students to work and learn together in ways that support all learners in a caring environment. This course focuses on engaging in fine art activities alongside peers with and without disabilities, while helping to foster important social relationships.

# BUSINESS

(All Courses Qualify for CTE and CTE Pathway)

## **200 - INTRO TO BUSINESS Level 1 Course**

**Grades 9-12 Elective 1 Credit**  
**Prerequisite: None**

This is a basic business course designed to familiarize students with the topics and activities associated with business in the real world. Students will gather a basic understanding of general business, entrepreneurship, business communications, marketing, finance and accounting, supply chain, management, human resources, sales, and business technology. The students in this class run the New Ulm High School store (Eagle's Nest) to learn skills to be successful in the workforce. Students also have the opportunity to create a robust business plan. Overall, this course gives students a broad exposure to business operations and a foundation for the other business courses.

## **204 - ACCOUNTING I Level 1 Course**

**Grades 9-12 Elective 1 Credit**  
**Prerequisite: None**

The primary focus of Accounting I is to learn the rules and procedures of accounting for profit-motivated businesses. Students will be introduced to the language of business and basic accounting principles. Students will complete an accounting cycle for a sole proprietorship. The course is recommended for students interested in business careers after high school, students majoring in business at a post-secondary institution, students interested in starting their own business, and students who want to understand financial information for their own personal use.

## **205 - ACCOUNTING II Level 2 Course**

**Grades 9-12 Elective 1 Credit**  
**Prerequisite: Accounting I**

Students will focus on advanced accounting skills and competencies that include strategic thinking, risk analysis, teamwork, and leadership. The interpretation and use of data will be evaluated using financial reports which impacts our businesses, legal and environmental systems. There are excellent career opportunities for accountants; students will explore career opportunities using partnerships with businesses.

## **214 - INTRO TO LAW Level 1 Course**

**Grades 9-12 Elective 1 Credit**  
**Prerequisite: None**

Are you addicted to crime scene television? Have you ever thought about pursuing a career in a law-related field? In this course, students will learn about criminal law, civil law, property law, and legal aspects of credit and debt. Students will tour the Law Enforcement Center, have many law related career speakers, and participate in debates. Students also have the opportunity to experience a Mock Crime Scene and use their problem-solving skills to solve the crime.

**220 - MARKETING**  
**Level 1 Course**

**Grades 9-12 Elective 1 Credit**  
**Prerequisite: None**

If you want to find out how companies like Nike, Coke, General Mills, and other successful companies and organizations accomplish their goals, this is the class for you. It will explore the activities involved in the foundations and functions of marketing products, services, images, and ideas. Students will learn about the 4 P's of marketing: product, price, place, and promotion. This course is project-oriented and will include an in-depth look into marketing. Each student will develop a resort business of their dreams. They will start with a vision board, develop a marketing plan, and their end result will be a full-blown website to showcase their resort.

**222 - PERSONAL FINANCE**  
**Level 1 Course**

**Grades 9-12 Elective 1 Credit**  
**Prerequisite: None**

This course will teach students basic survival skills in managing your personal finances. This class will prepare students for life in understanding the practical skills of economics and personal finance. Students will learn basic money management skills by preparing a budget, maintaining a checking account, and preparing tax forms. As consumers, students will learn how to make responsible decisions regarding spending, savings, investing, and the wise use of credit. Other topics covered will be house purchasing, auto purchasing, and insurance. Knowing, understanding, and applying these concepts will benefit students in both their personal and career lives.

**224 - BUSINESS ECONOMICS**  
**Level 2 Course**

**Grades 11-12 Required 1 Credit**  
**Prerequisite: None**

*\*Meets state & district Economics requirement*

This course will give students a greater understanding of economics ranging from the viewpoint of the individual, consumer, or small business owner to the global economy. The course topics will include a full introduction to economics, supply, demand, market prices, the consumer, businesses and their resources, government, banking, economic stability, the global economy, and personal finance. If you are considering a career in business, this is a great class to explore and meet your Economics requirement.

# COMPUTER SCIENCE

(All Courses Qualify for CTE and CTE Pathway)

**230 - COMPUTER & TECHNOLOGY ESSENTIALS**      **Grades 9-12**      **Elective**      **1 Credit**  
**Level 1 Course**      **Prerequisite: None**

Have you ever struggled using a Google application for a project that was assigned to you? Do you struggle typing your assignments and papers because you do not have a background in typing? If you answered yes to either of these questions, then this is the class for you! This course is designed for students who would like to learn more about Google Apps, keyboarding, and 10-key. Significant time will be spent learning how to effectively utilize Google Docs, Sheets, Slides, Forms, Sites, Drawings, Drive, and more! There will also be time spent to improve your keyboarding and 10-key skills, which is a must for most businesses. Additional mini units may include: Pixlr, block coding, Tinkercad, and html/CSS design. These mini units provide a snapshot of future courses you could enroll in. *It is strongly recommended that all students complete this course to gain a fundamental understanding of the basic technology available to them before graduation.*

**254 - BASIC**      **Grades 9-12**      **Elective**      **1 Credit**  
**Level 1 Course**      **Prerequisite: None**

This class will cover the basic history of computers, programming ethics, documentation and basic programming structures. The main language used for programming in this class is Python, an open source powerful yet simple language to learn. No previous knowledge of a programming language is necessary. Most concepts will be used in problem solving lab activities. Emphasis will be placed on the problem solving and thinking process. Skills in text and graphic programming will be developed. The student will have an opportunity to create a variety of programs that are interesting, challenging, and fun.

**258 - JAVA**      **Grades 9-12**      **Elective**      **1 Credit**  
**Level 2 Course**      **Prerequisite: Basic I or Pass Test**  
(Not available for 2023-2024 School Year)

This course is designed to give the student an opportunity to learn one of the most popular object oriented programming languages used today. The programmer will be able to manipulate these objects to solve a wide variety of problems. The programmer will get experience working with decision structures, data management, and applets. This course is designed for students interested in working with computers and who have an interest in pursuing a technical career in computers.

**260 - ANDROID**      **Grades 9-12**      **Elective**      **1 Credit**  
**Level 2 Course**      **Prerequisite: Basic I or Pass Test**  
(Not available for 2023-2024 School Year)

This course is designed to give the student an opportunity to learn object oriented programming through the writing of apps for android devices. Students, through lab activities, will learn and write apps that will run on Android devices. While previous knowledge of JAVA is not required, it is recommended to take 258-JAVA prior to taking this course. This course may be the first step towards an interesting and rewarding career in mobile computer programming.

## ENGLISH

**300 - ENGLISH 9A**  
**Level 1 Course**

**Grade 9**      **Required**      **1 Credit**  
**Prerequisite: None**

Students will improve language skills through reading, writing, and speaking. The primary focus of writing will include personal narrative, literary analysis, and persuasive essays. Reading units include: fiction and literary nonfiction - analysis of plot, characterization, point of view, setting, mood, imagery, theme, and symbol; and read and analyze *Speak* and *The Hobbit*. Students will review parallel structure, fragments and run-on sentences, consistent verb tense, pronoun usage, and dialogue punctuation. Vocabulary study will include using context clues and learning common prefixes and root word meanings. Successful completion of this course is required for graduation.

**300.5 - HONORS ENGLISH 9A**  
**Level 2 Course**

**Grade 9**      **Required**      **1 Credit**  
**Prerequisite: None**

This course is offered to highly motivated students who are looking for a challenging and fast-paced curriculum. Students who enroll in this class should be strong readers and writers and have a desire to excel within the English curriculum. Students should have earned a B+ or higher in previous English classes. Although the curriculum is similar to English 9A, units and tests will be explored in greater detail. Reading units include: fiction and literary nonfiction focusing on plot development, characterization, point of view, setting, mood, imagery, theme, symbol; the drama *Romeo and Juliet*; and the choice of a classic novel. Vocabulary study will include using context clues and learning common prefix and root word meanings. Although students will be expected to have competent knowledge of grammar, usage and mechanics, parts of speech and correcting common errors will be reviewed. Students should be prepared to write 4 essays per semester, as well as read 30-35 pages of daily reading. A summer reading assignment may be required.

**301 - ENGLISH 9B**  
**Level 1 Course**

**Grade 9**      **Required**      **1 Credit**  
**Prerequisite: None**

Students will improve language skills through reading, writing, and speaking. The primary focus of writing will include a poem, myth, and persuasive essays. Reading units include: fiction and nonfiction focusing on author's style; language of poetry; classical mythology; an abridged version of *The Odyssey*; *The Wizard of Oz* and *Romeo and Juliet*. Vocabulary study will include using context clues and learning common prefix and root word meanings. Successful completion of this course is required for graduation.

**301.5 - HONORS ENGLISH 9B**  
**Level 2 Course**

**Grade 9**      **Required**      **1 Credit**  
**Prerequisite: None**

This course is offered to highly motivated students who are looking for a challenging and fast-paced curriculum. Students who enroll in this class should be strong readers and writers and have a desire to excel within the English curriculum. Students should have earned a B+ or higher in previous English classes. Although the curriculum is similar to English 9B, units and tests will be explored in greater detail. Reading units include: fiction and nonfiction focusing on author's style and voice; language of poetry; classical mythology; *Heroes, Gods, and Monsters*; *The Odyssey*; and *Something Wicked This Way Comes*. Students will practice strategies for writing effective sentences. Vocabulary study will include using context clues and learning common prefix and root word meanings. Although students will be expected to have competent knowledge of grammar, usage and mechanics, parts of speech and correcting common errors will be reviewed. Students should be prepared to write 4 essays per semester, as well as read 30-35 pages of daily reading.

**302 - ENGLISH 10A**  
**Level 1 Course**

**Grade 10**      **Required**      **1 Credit**  
**Prerequisite: None**

Students will improve language skills through reading, writing, and speaking. The primary focus of writing will include literary analysis, compare/contrast, and cause/effect. Students can expect to read several short stories, essays, poems, and the novel *Of Mice & Men*. Students will expand their communication skills through introduction and survival speeches. Students will also critically analyze audio, print, and visual media and their effects on society. Finally, students will also study sentence types as well as basic grammatical and mechanical rules in addition to vocabulary development.

**302.5 - HONORS ENGLISH 10A**  
**Level 2 Course**

**Grade 10**      **Required**      **1 Credit**  
**Prerequisite: None**

Students will improve language skills through reading, writing, and speaking. The primary focus of writing will include literary analysis, compare/contrast, and cause/effect. Students can expect to read five major works of literature: *Of Mice & Men*, *The Importance of Being Earnest*, *Julius Caesar*, *Animal Farm*, and *The Lord of the Flies*. Students will expand their communication skills through an introduction speech and dramatic reading. Students will also critically analyze audio, print, and visual media and their effects on society. Finally, students will also study sentence types as well as basic grammatical and mechanical rules in addition to vocabulary development. This course is offered to highly motivated students who are looking for a challenging and fast-paced curriculum. Students who enroll in this class should be strong readers and writers and have a desire to excel within the English curriculum. Students should have earned a B+ or higher in previous English classes. Students should be prepared to write 4 essays per semester, as well as read 30-35 pages of daily reading during novel units. A summer reading assignment may be required.

**303 - ENGLISH 10B**  
**Level 1 Course**

**Grade 10**      **Required**      **1 Credit**  
**Prerequisite: None**

In this survey course, students become acquainted with American literary heritage through a variety of traditional and contemporary American Literature. Students should expect to read, discuss, listen, and write about the issues explored in these works in shaping American culture and identity. Both individual and group work will be done in this class. The units covered include Early American Writing, American Romanticism, Transcendentalism, Southern Gothic, Realism, and Harlem Renaissance. All students will read *The Crucible* and *To Kill a Mockingbird*.

**303.5 - HONORS ENGLISH 10B**  
**Level 2 Course**

**Grade 10**      **Required**      **1 Credit**  
**Prerequisite: None**

In this survey course, students become acquainted with American literary heritage through a variety of traditional and contemporary American Literature. Students should expect to read, discuss, listen, and write about the issues explored in these works in shaping American culture and identity. Both individual and group work will be done in this class. The units covered include Early American Writing, American Romanticism, Transcendentalism, Southern Gothic, Realism, and Harlem Renaissance. All students will read *The Crucible* and *To Kill a Mockingbird*. This course is offered to highly motivated students who are looking for a challenging and fast-paced curriculum. Students who enroll in this class should be strong readers and writers and have a desire to excel within the English curriculum. Students should have earned a B+ or higher in previous English classes. Students should be prepared to write 4 essays per semester, as well as read 30-35 pages of daily reading during novel units. A summer reading assignment may be required.

**310 - CONTEMPORARY LITERATURE**  
**Level 2 Course** \*\*Modern Literature Category

**Grades 11-12**      **Elective**      **1 Credit**  
**Prerequisite: None**

A variety of contemporary literature will be used in this class to encourage reading for enjoyment. Students should expect to read, discuss, listen, and write about the issues explored in these books. You can expect to read roughly 7 young adult novels, which is about 25-35 pages of reading per night with 15-25 minutes of in-class reading time per day. Novels will be accompanied by a variety of study guides, quizzes, and tests to gauge reader comprehension as well as small and large group discussions, projects, and essays to challenge the reader to search each novel for a deeper understanding and to draw out themes in young adult literature.

**318 - CREATIVE WRITING**  
**Level 2 Course** \*\*Writing II Category

**Grades 11-12**      **Elective**      **1 Credit**  
**Prerequisite: None**

Students will write creatively in various forms, including: short stories, poetry, flash fiction, and creative non-fiction. Students will also complete a unit studying a creative writing author. Students will read several models of successful writing in addition to receiving instruction about each genre which will help to develop their voices and ideas in their own writing.





**340/340E - JOURNALISM** **Grades 11-12 Elective** **1 Credit**  
**Level 2 Course** \*\*Writing II Category **Prerequisite: None**  
*\*The early bird option of this course will take place before school hours*

Students in this course will work together to create an online news publication which will cover various aspects of the New Ulm High School campus. Members of this publication team will maintain a multimedia web page that aims to reflect the digital age we live in through the eyes of the Eagle student body. Photography, videography, technology, research, writing; sports, fine arts, culinary arts, industrial arts; a good story: if any of that (and much more) interests you, consider Journalism.

**342 - VOCATIONAL TECHNICAL WRITING** **Grades 11-12 Elective** **1 Credit**  
**Level 2 Course** \*\*Writing I Category **Prerequisite: None**

The focus of this course is to study technical writing, which is the type of writing students will be responsible for in the workplace. Students will demonstrate their writing abilities through various forms of writing, including a memo, formal email, resume, writing instructions, status report, career research slide show, career research paper, brochure, flier, personal web page, newsletter, PSA/commercial (storyboard, script, video), and a unique jobs study. Students will also read *Into the Wild*. Presentations will also be a part of the class. Students will study basic grammar, usage, and mechanics to avoid common errors and improve their writing. This course is recommended for students planning to enter the workforce, military, or 2-year/4-year college after high school.

**344 - RESEARCHING AND WRITING** **Grades 11-12 Elective** **1 Credit**  
**Level 2 Course** \*\*Writing I Category **Prerequisite: None**

Students will learn the research process from selecting a topic, evaluating and selecting a variety of credible sources, taking notes, developing a thesis statement and outline, synthesizing ideas, citing sources internally and externally following both MLA and APA formats, and presenting their ideas to a specific audience. Students will research for informative, persuasive, and literary analysis purposes in this course. This course is highly recommended for students planning to attend 4-year and 2-year colleges.

**346/347 - WRITING APPRENTICE I/II** **Grades 11-12 Elective** **1 Credit**  
**Level 2 Course** \*\*Writing II Category **Prerequisite: Researching and Writing**

This course introduces students to the theory and practice of tutoring students. Students will develop an in-depth understanding of the writing process, learn strategies for strengthening writing skills, study communication skills necessary for working with peers on academic and creative writing, and learn how to conduct successful one-on-one and online conferences. Students will complete assignments that include reading scholarly articles on the art of writing, reflecting on the writing process, journaling about their Writing Center experience, and composing a traditional paper for submission. Students must have strong communication and time management skills; and be motivated to complete work both independently and work collaboratively with peers and teachers. This course is recommended for students wanting to gain a greater understanding of grammar, usage, and mechanics.

## Concurrent Enrollment Courses: English

**1300/1300E - GLOBAL PERSPECTIVES (LIT 150)**  
**Level 3 Course** \*\*World Literature Category

**Grade 10-12 Elective 1.5 Credits**  
**Duration: One Semester (3 College Credits)**  
**Prerequisite: SMSU PSEO Requirements**  
**\*\*Research & Writing strongly recommended**

This course is an introduction to literature through the study of works past and present which explore both the nature of humanity and humanity's relation to the world. The course will introduce students to literature from primarily outside the United States to enable cross-cultural comparisons. Students will be expected to read all texts outside of class, while in-depth text analysis will be done through quizzes, daily assignments, and in class through discussion. Major assessments include a literary analysis, several projects, and a final presentation. Does not count toward a Literature major.

**1301 - ACADEMIC WRITING (ENG 151)**  
**Level 3 Course** \*\*Writing II Category

**Grade 10-12 Elective 2 Credits**  
**Duration: One Semester (4 College Credits)**  
**Prerequisite: SMSU PSEO Requirements**  
**\*\*Research & Writing strongly recommended**

Eng 151 Academic Writing is the primary entry-level writing class for all SMSU students and is one of the core first-year liberal arts classes. ENG 151 serves as a beginning point for helping students engage in the LAC goal to "communicate effectively." Towards this end, ENG 151 will enable students to determine a writing purpose, generate ideas to support a topic, determine an audience, develop a focus, and organize a written text, beginning with more personal, or "reflective" writing and moving on to expository writing and argument. At least three of these papers will involve a research component using proper MLA citation and format, through which students begin to learn how purpose and audience affect the content, language, and form of a written text.

**1305/1305E/1305N - PUBLIC SPEAKING (CMST 102)**  
**Level 3 Course** \*\*Performance Category

**Grades 10-12 Elective 1.5 Credits**  
**Duration: One Semester (3 College Credits)**  
**Prerequisite: MSU PSEO Requirements**  
**\*\*Research & Writing strongly recommended**

*\*This course is offered as an early bird course, night course, and during the school day*

Public Speaking is an introductory course in the theory and practice of public speaking with the emphasis on the speaker-audience relationship. Skills include analyzing the speaking situation, choosing appropriate topics, conducting research, organizing ideas, utilizing evidence, delivering speeches effectively, and developing the ability to critically listen. Students will be expected to give speeches, type outlines, conduct research, complete homework, and take exams.

# FAMILY AND CONSUMER SCIENCE

(All Courses Qualify for CTE and CTE Pathway)

**400 - FASHION AND DESIGN**  
**Level 1 Course**

**Grades 9-12 Elective 1 Credit**  
**Prerequisite: None**

This course starts out with exploring the principles and elements of design. Students will study fashion throughout history, iconic fashion designers and their influences as well as other factors in the fashion industry. The wide range of fabric/textile products and their characteristics will be studied. Students will create designs and different projects during the semester. Careers and the opportunities in the fashion, design & retail industry are also explored.

**402 - BASIC FOODS**  
**Level 1 Course**

**Grades 9-12 Elective 1 Credit**  
**Prerequisite: None**

You are what you eat! Students will learn the true meaning of this statement as they study basic nutrition and food preparation through food preparation labs and experiments. This class includes food safety and sanitation, basic food preparation terms, meal management, food purchasing, and basic food preparation techniques. "Hands-on" food labs include preparations of quick-breads, fruits, vegetables, pasta, rice, eggs, cookies, soups & poultry. We will explore the kitchen and gain knowledge of cooking & shopping for one's self, a family, or a small group in a healthy manner. Our final project is a family meal with a guest.

**404 - INTERNATIONAL FOODS**  
**Level 2 Course**

**Grades 10-12 Elective 1 Credit**  
**Prerequisite: Basic Foods**

Students have the opportunity to have a culinary tour of other countries through the International/Cultural foods class. This class explores foods from around the world and their influences. The class will have input on which countries and their cuisines will be explored. Cultural influences on the food, geography, and climate influences on foods as well as preparation styles are part of the class. Labs will involve cooking techniques and traditions of that region or country. We will also explore multiple cuisines across America.

**405 - ADVANCED FOODS**  
**Level 2 Course**

**Grades 10-12 Elective 1 Credit**  
**Prerequisite: Basic Foods**

The Advanced Foods class focuses on multiple units including dairy & sauces, yeast breads, beef, pork, seafood & fish, vegetarian cooking, soups and salads, desserts, additives in food, food-related health disorders, and careers and etiquette. One or two entertainment projects will be done during the semester. The sanitation and safety program ServSafe: Food Handler will be taught and students will have the opportunity to earn a certification towards employment in the food industries such as restaurants and grocery stores by taking the Food Handler certification test. This certification can lead to higher salaries and give you an edge over other applicants in the hiring process. Laboratory experiences that emphasize industry practices and develop basic industry skills are a required component of this course

**406 - CULINARY ARTS**  
**Level 2 Course**

**Grades 10-12 Elective 1 Credit**  
**Prerequisite: Basic Foods**

This is a course that is designed to help the students understand what it is like to be in the culinary arts and hospitality careers. It explores the rules and regulations of the industry and the basic skills needed to be a chef. The course is based on the ProStart program. The students will learn the skills by practicing knife skills, presentations, serving, professionalism, and all cooking methods. Laboratory experiences that focus on the food industry are a required component of this course. All students who have not taken the ServSafe: Food Handler unit in a previous class, will be required to complete ServSafe.

**407 - PASTRY AND DESIGN**  
**Level 2 Course**

**Grades 10-12 Elective 1 Credit**  
**Prerequisite: Basic Foods**

This offering focuses on the pastry and baking industry. We examine the food science of the ingredients used in the fine art of baking and pastry making. Students will utilize culinary skills as they create baked goods to include a variety of breads, pies, cakes, creative cookies, gingerbread houses, cheesecakes, and the art of cake decorating. Students will be utilizing artistic and baking principles, through product development and creation. Career speakers related to the pastry and design industry and potential field trips may be part of the course.

**408 - INTERIOR DESIGN AND HOUSING**  
**Level 1 Course**

**Grades 9-12 Elective 1 Credit**  
**Prerequisite: None**

Interior Design and Housing is an introductory course for those students interested in academic enrichment or a career within the housing, interior design, or furnishings industry. This course addresses the selection and planning of designed spaces to meet the needs, wants, values and lifestyles of individuals, families, clients, and communities. We will study architecture, furniture styles and changing technology in the home. Housing decisions, resources and options will be explored including factors affecting housing choices and the types of housing available, green living. Students will also learn about the process of selecting a rental vs. buying a home and the legal contracts these choices involve.

**410 - RELATIONSHIPS**  
**Level 1 Course**

**Grades 9-12 Elective 1 Credit**  
**Prerequisite: None**

This course will focus on many factors about how we communicate and get along with others to include personality styles & communication styles. We will look at our self image, esteem and character, how we communicate with others and lifespan relationships. It includes identifying the many types of relationships we have in our life: friends, siblings, parents, co-workers, supervisors, spouses, neighbors, etc... It will help us recognize problems that develop in relationships and how to effectively work through differences. Skills in evaluating and following safety guidelines in online relationships will be studied. Identifying qualities that are part of healthy relationships and warning signs of unhealthy relationships are key to living a rewarding life. We will learn about the stages in family life, as well as gain an understanding of other cultures to help us see situations from others perspective and develop mutual respect. Speakers will be featured in some units such as online relationships, and handling difficult or abusive situations.

**414 - CHILD DEVELOPMENT**  
**Level 1 Course**

**Grades 9-12 Elective 1 Credit**  
**Prerequisite: None**

Child Development will study children from a career and parenting perspective to develop an understanding of childhood and the skills necessary when working with children both in the family setting and as a career. We will focus on roles and responsibilities in child care and how children develop from conception through early school age. We study the 5 areas of development: physical, intellectual, social, moral, and emotional growth of children. Theories about human development will be discussed. Students will learn about the important skills needed to help children become well adjusted individuals. Our course will have guest speakers on subjects related to our units.

## MATHEMATICS

### Calculator Policy:

*All mathematics courses require scientific calculators. We suggest a Texas Instrument 30-XIIS or above or a similar regression-capable calculator. See your math teacher with questions. Texas Instrument 83 Plus graphing calculators may be available in the classroom for special projects, but not for student daily use.*

#### **512 - FUNDAMENTALS OF ALGEBRA A** **Level 1 Course**

**Grades 9-12**                      **1 Credit**  
**Prerequisite: Administrative Placement Only**

Fundamentals of Algebra A is designed as a supplemental mathematics course. It will provide a bridge, necessary to be successful in the district required mathematics courses. This course assists in filling the voids of Grade 8 Algebra as the students prepare to take Geometry and Algebra II. It includes the basic concepts of algebra, operations, variables, integers, equations, inequalities, exponents, and graphing in a coordinate plane. See calculator policy.

#### **513 - FUNDAMENTALS OF ALGEBRA B** **Level 1 Course**

**Grades 9-12**                      **1 Credit**  
**Prerequisite: Administrative Placement Only**

This course is a continuation of Fundamentals of Algebra A. It is an introduction to terms and concepts which will be taught in Geometry and Algebra II. It includes a fundamental study of rational expressions, systems of equations, the use of exponents, factoring, polynomials, and quadratic equations, the introduction to logic and proofs, introduction to angle relationships, perpendicular and parallel lines and planes, congruent triangles and similar polygons. See calculator policy.

#### **514 - GEOMETRY A** **Level 1 Course**

**Grades 9-12**    **Required**                      **1 Credit**  
**Prerequisite: None**

It is recommended that Geometry be taken before or at the same time as Algebra II. This course includes the introduction to logic and proof. The student will also study angle relationships, perpendicular and parallel lines and planes, congruent triangles and polygons. See calculator policy.

#### **514.5 - HONORS GEOMETRY A** **Level 2 Course**

**Grades 9-12**    **Required**                      **1 Credit**  
**Prerequisite: None**

This course includes the introduction to logic and proof. The student will also study angle relationships, perpendicular and parallel lines and planes, congruent triangles and polygons. Students taking this course will be challenged to understand and apply concepts beyond the regular Geometry A course, which it replaces. See calculator policy.

#### **515 - GEOMETRY B** **Level 1 Course**

**Grades 9-12**    **Required**                      **1 Credit**  
**Prerequisite: Honors/Geometry A**

This semester of geometry includes similarity, circles, areas, angles, coordinate geometry, surface areas, volumes, transformations, and a brief view of trigonometry. See calculator policy.

**515.5 - HONORS GEOMETRY B**  
**Level 2 Course**

**Grades 9-12**    **Required**    **1 Credit**  
**Prerequisite:**    **Honors/Geometry A**

This semester of geometry includes similarity, circles, area, angles, coordinate geometry, surface areas, volumes, transformations, and a brief view of trigonometry. Students taking this course will be challenged to understand and apply concepts beyond the regular Geometry B course, which it replaces. See calculator policy.

**516 - ALGEBRA IIA**  
**Level 1 Course**

**Grades 9-12**    **Required**    **1 Credit**  
**Prerequisite:**    **None**

This course will explore mathematical statements, variables, axioms, solving equations and related problems. Other areas studied are inequalities, functions, graphs, factoring, radicals, irrational numbers, quadratic equations, and exponents. The student may take this course simultaneously with Geometry. See calculator policy.

**516.5 - HONORS ALGEBRA IIA**  
**Level 2 Course**

**Grades 9-12**    **Required**    **1 Credit**  
**Prerequisite:**    **None**

This course will explore mathematical statements, variables, axioms, solving equations and related problems. Other areas studied are inequalities, functions, graphs, factoring, radicals, irrational numbers, quadratic equations, complex numbers and exponents. Students taking this course will be challenged to understand and apply concepts beyond the regular Algebra IIA course, which it replaces. See calculator policy.

**517 - ALGEBRA IIB**  
**Level 1 Course**

**Grades 9-12**    **Required**    **1 Credit**  
**Prerequisite:**    **Honors/Algebra IIA**

This semester includes complex numbers, rational equations and factors, sequence and series, and exponential and logarithmic functions. See calculator policy.

**517.5 - HONORS ALGEBRA IIB**  
**Level 2 Course**

**Grades 9-12**    **Required**    **1 Credit**  
**Prerequisite:**    **Honors/Algebra IIA**

This semester includes rational equations and factors, sequence and series, and exponential and logarithmic functions. Students taking this course will be challenged to understand and apply concepts beyond the regular Algebra II B course, which it replaces. See calculator policy.

**522 - PROBABILITY & STATISTICS**  
**Level 1 Course**

**Grades 9-12**    **Required**    **1 Credit**  
**Prerequisite:**    **None**

This course will focus on basic concepts of statistics and probability, including measures of center, variability, and rank; reliability; correlation; sampling; randomness; permutations; combinations; and distributions. This course would be useful for a student considering a career in a technical field, engineering, or any scientific field. See calculator policy.



**524 - ALGEBRA III**  
**Level 2 Course**

**Grades 10-12 Elective 1 Credit**  
**Prerequisite: Geometry AB and Algebra II AB**

This course is recommended for students considering any post-secondary school. The material covered provides a bridge between Algebra II and College Algebra, as well as preparing students for required graduation tests and post secondary placement tests. Topics to be covered include quadratic functions, polynomials, geometric sequences & series, exponential functions, logarithmic functions, and trigonometry.

### **Concurrent Enrollment Courses: Mathematics**

**1501Y - MATH 2471 (Calculus I)**  
**Level 3 Course**

**Grades 10-12 Elective 3.5 Credits**  
**Duration: Two Semesters (5 College Credits)**  
**Prerequisites: College Algebra (Math 1170),**  
**Trigonometry (Math 1180), and BSU PSEO**  
**Requirements**

The purpose of this course is to provide students with a sound knowledge of differential calculus including derivatives, rules of differentiation, integration, techniques of integration and application of calculus.

**1503 - TRIGONOMETRY (Math 1180)**  
**Level 3 Course**

**Grades 10-12 Elective 1.5 Credits**  
**Duration: One Semester (3 College Credits)**  
**Prerequisites: College Algebra (Math 1170)**  
**and BSU PSEO Requirements**

The purpose of this course is to provide students with a sound knowledge of trigonometry. Both circular functions and right triangles will be covered along with trigonometry identities, equations, and applications.

**1504/1504E - COLLEGE ALGEBRA (Math 1170)**  
**Level 3 Course**

**Grade 10-12 Elective 2 Credits**  
**Duration: One Semester (4 College Credits)**  
**Prerequisite: Geometry AB and Algebra IIAB**  
**and BSU PSEO Requirements**

A study of the fundamental concepts of algebra. Topics include: equations and inequalities, polynomial, rational, exponential, and logarithmic functions and their graphs; and systems of linear and nonlinear equations.

## MUSIC (FINE ARTS)

### **604/605 - CONCERT BAND Level 2 Course**

**Grades 9-12 Elective 2 Credits**  
**Prerequisite: Prior band experience preferred**

Students will improve their instrument playing skills and general music knowledge through daily instruction and playing. Students will develop musicianship through playing a variety of styles of music. Students will share their music through concerts and performances throughout the school year. Members of the concert band are also members of the New Ulm Marching Eagles during the early fall season and the Eagles Pep Band during the fall and winter season. Requirements for the class include weekly individual lessons, occasional sectionals, participation in Marching and Pep Band and several performances, with some of those being at off-site locations. This band participates in the Minnesota State High School League contests.

### **610/611 - CONCERT CHOIR Level 2 Course**

**Grades 9-12 Elective 2 Credits**  
**Prerequisite: Audition. (Students will be**

**evaluated on their skill level and ability, specifically: vocal quality and maturity, reading ability, and overall musicianship. Students will be placed in an ensemble based on the results of their audition, as well as the needs of the ensemble.)**

This choir is chosen yearly by audition. The size and makeup of the choir is determined by the available talent and balance needed to perform music of a high caliber. Previous singing experience is strongly recommended. Requirements for the class include a minimum of 3 voice lessons per grading period, occasional sectionals, and several performances, with some of those being at off-site locations. This choir participates in the Minnesota State High School League choral contest.

### **612/613 - BEL CANTO (Women Only) Level 1 Course**

**Grades 9-12 Elective 2 Credits**  
**Prerequisite: None**

This choir is composed of 9-12 grade women. The size and makeup of the choir is determined by the available talent and balance needed. The choir will focus on the fundamentals of singing along with basic musicianship. The choir will learn and perform a variety of music from classics to pop. Requirements for the class include a minimum of 3 voice lessons per grading period, occasional sectionals, and several performances, with some of those being at off-site locations. Previous singing experience is recommended but not required.

### **616/617 - MEN OF NOTE (Men Only) Level 1 Course**

**Grades 9-12 Elective 2 Credits**  
**Prerequisite: None**

This choir is composed of 9-12 grade men. The choir will focus on the fundamentals of singing with a changing voice along with basic musicianship. The choir will learn and perform a variety of music from classics to pop. Requirements for the class include a minimum of 3 voice lessons per grading period, occasional sections, and several performances, with some of those being at off-site locations. Previous singing experience is recommended but not required.

**620/621 - BAND/CHOIR COMBINATION****Grades 9-12 Elective 2 Credits****Level 2 Course****Prerequisite: Audition. (Students will be****evaluated on their skill level and ability, specifically: vocal quality and maturity, reading ability, and overall musicianship. Students will be placed in an ensemble based on the results of their audition, as well as the needs of the ensemble.**

This course offers select students the opportunity to participate in concert band and concert choir during the same period of the day. Emphasis will be placed on the area that will be performing and/or competing. The instructors will determine which class has priority and for which period of time. Students will have the same requirements and opportunities of each class. See class descriptions for both Concert Band and Concert Choir.

**630/630Y - FINE ARTS AIDE****Grades 10-12 Elective 1 Credit****Level 2 Course****Prerequisite: Complete Student Information form (Available in the Counseling Office).**

Fine Arts Aide (FAA) Program for Exceptional Learners is a unique opportunity for students of varying ability levels and backgrounds to come together on equal terms through fine arts activities. This will include, vocal music, instrumental music, and Visual Arts. Your role and responsibility as a FA Aide is to offer practical experiences to our exceptional learners. This program provides opportunities for students to work and learn together in ways that support all learners in a caring environment. This course focuses on engaging in fine art activities alongside peers with and without disabilities, while helping to foster important social relationships.

## OTHER

**Oll Online Vendor** **Grades 9-12** **1 credit**  
**Prerequisite: None**

By selecting this course you are indicating your intention to take an online course through a Minnesota Department of Education Approved Online Vendor. This would mean you will be a part time student with an online district (not a full time NUHS student).

**001A/001B - College Study Time** **Grades 11-12** **0 credits**  
**Prerequisite: Enrolled in CE credits**

This offering is for Juniors and Seniors on track for graduation and taking college in the school classes. The number of college credits a student is taking will dictate the periods in which a student may take College Study Time. See your counselor for the availability of this course in your schedule.

**008/009 - PSEO** **Grades 10-12** **1 credit**  
**Prerequisite: Meet College PSEO criteria**

By selecting this course you are indicating your intention to take PSEO courses either part time or full time next school year. Your counselor will meet with you.

**540/541 - Guided Study** **Grades 9-12 Elective** **1 Credit**  
**Level 1 Course** **Prerequisite: None**

This course is designed to aid students in developing skills necessary to be successful at all levels of learning. Basic skills in test taking, note taking, homework management are just a few skills emphasized throughout the course curriculum. (This class is offered on a pass/fail basis; a passing grade is the equivalent of a C for a student's GPA.)

**416 - SURVIVAL** **Grades 10-12 Elective** **1 Credit**  
**Level 1 Course** **Prerequisite: None**

This course is designed to teach a variety of skills that students will use in their daily life after graduating from high school. General topics include money management and finances, basic budgeting, saving, debt, investing, online banking, insurance, consumer rights & responsibilities, bargain shopping, first apartment furnishing basics & understanding rental contracts/leases, employment skills: job application, job interviewing, handling customers, networking, accepting feedback constructively, basic cooking, and opportunities to handle some unseen events such as changing a car tire, jump starting a car, car basics, textile care, ironing a shirt, sewing on buttons.

**772 - CAREER EXPLORATION**  
**Level 2 Course**

**Grades 11-12 Elective**  
**Prerequisite: None**

**1 Credit**

This course is designed to help students investigate a variety of possible future careers and to acquire the skills needed to pursue their dream profession. To help students narrow their career search, they will be taking personal interest surveys, aptitude tests, values surveys, and personality assessments allowing them to identify their abilities and strengths. From this reflective process, they will select several careers of interest. Students will then research these careers investigating their various educational needs, pay scales, working conditions, and job prospects. Students will learn about a variety of career fields as they listen to guest speakers, conduct interviews with local business people, and as they explore and conduct their own research. Students will also complete job applications, create resumes and cover letters and learn acceptable interview practices. Finally, students will learn to make sound financial decisions in savings and investing options, credit choices, and budgeting.

## PHYSICAL EDUCATION AND HEALTH

**650 - FOREVER FIT**  
**Level 1 Course**

**Grade 9-10    Required    1 Credit**  
**Prerequisite:    None**

Forever Fit is an introductory physical education class that is required for all students. This class will focus on improving the health-related components of fitness, including muscular strength, muscular endurance, cardiovascular endurance, body composition, and flexibility. The goal of Forever Fit is to promote living a healthy and active lifestyle beyond the classroom. We will introduce and explore a variety of different individual and team-based activities and sports, as well as incorporate different forms of fitness throughout the class. Additionally, the use of heart-rate monitors may be implemented throughout the course to help personalize learning and help students reach fitness-related goals.

**652 - HEALTH**  
**Level 1 Course**

**Grade 9-10    Required    1 Credit**  
**Prerequisite:    None**

This course offers the student the opportunity to view critical health issues and problems with emphasis on the role of the individual in society. The following units will be addressed: mental health, healthful nutrition, chemical use and abuse and human sexuality. There will also be a unit on first aid/safety and CPR, a lifesaving technique. Students will learn how the priority health areas are interconnected.

**652.5 - HEALTH/LUNCH**  
**Level 2 Course**

**Grade 10    Required    1 Credit**  
**Prerequisite:    Top 1/3 of class or**  
**Administration Approval**

\*This class is offered as a 25 minute class for the entire year during resource, allowing students to take an additional class during grade 10.

This course offers the student the opportunity to view critical health issues and problems with emphasis on the role of the individual in society. The following units will be addressed: mental health, healthful nutrition, chemical use and abuse and human sexuality. There will also be a unit on first aid/safety and CPR, a lifesaving technique. Students will learn how the priority health areas are interconnected.

**655 - HEALTHFUL LIVING**  
**Level 2 Course**

**Grades 11-12    Elective    1 Credit**  
**Prerequisite:    Health**

This course is designed to expand on the wellness concepts learned in Health Education, encouraging development of physical, mental, social and environmental health of the individual. The course ultimately fosters decision-making through a variety of instructional strategies. This class assists students in examining their personal level of wellness, which includes physical fitness, making good nutrition choices, and maintaining a healthy body composition. Students will apply principles of health and wellness when exploring effective ways to handle stress, determine personal risk for cardiovascular disease and cancer, make wise choices in drug use and avoiding abuse, protecting oneself against sexually transmitted diseases and identifying skills for developing and maintaining successful interpersonal relationships.

**656 - ADVANCED PHYSICAL EDUCATION**  
**Level 2 Course**

**Grades 10-12 Elective 1 Credit**  
**Prerequisite: Forever Fit**

In Advanced PE, students will get a more in-depth experience in a variety of traditional and non-traditional team and individual sports, along with improving their health and skill related components of fitness. This course is designed for the student who is interested in a competitive experience, and also has a desire to improve individual skills and knowledge of the fundamentals and strategies of the games. Program emphasis is placed on competing at a competitive level and developing not only physical fitness but also teamwork and sportsmanship. Activities included but not limited to are: fitness testing, tennis, flag football, soccer, speedball, volleyball, team handball, basketball, badminton, pickleball, ultimate frisbee, softball, nitro ball, eclipse ball, and sharbade.

**658//658Y - STRENGTH AND CONDITIONING**  
**Level 2 Course**

**Grades 10-12 Elective 1 Credit**  
**Prerequisite: Forever Fit**

Strength and Conditioning is an elective physical education class designed for students interested in a weight room-based fitness class. This class will focus on improving the health and skill-related components of fitness of each student. These components include muscular strength, muscular endurance, cardiovascular endurance, body composition, flexibility, speed, agility, power, coordination, balance, and reaction time. Units of study may include, but are not limited to, proper technique of exercises, fitness training principles, basic human anatomy, nutrition, and mental skills training. Students will be required to work on goal-setting, and will track their growth and progress throughout the course.

**660/660Y - PEOPEL AIDE**  
**Level 2 Course**

**Grades 10-12 Elective 1 Credit**  
**Prerequisite: Forever Fit and Complete Student Information form (Available in the Counseling Office).**

**The number of aides needed will be determined by the number of students enrolled with preference given to juniors and seniors who have not experienced this opportunity.**

PEOPEL (Physical Education Opportunity Program for Exceptional Learners) is a unique opportunity for students of varying ability levels and backgrounds to come together on equal terms through ongoing fitness, sports, leadership and wellness activities. Your role and responsibility as a PEOPEL aide is to offer practical experiences to our exceptional learners. This program provides opportunities for students to work and learn together in ways that support all learners and create an equitable, caring environment for all. This course focuses on the physical, intellectual and social growth of *all* participants. Engaging in physical activity and sport alongside peers with and without disabilities, helping to foster important social relationships.

**662/662Y - APPRENTICE****Grade 12 Elective 1 Credit****Level 2 Course****Prerequisite: Complete Student Information**

**form (Available in the Counseling Office), be on track for graduation, no excessive or unexcused absences. You must have your own form of transportation to be placed at the elementary/middle schools.**

This course is designed for seniors who may be interested in teaching or working with elementary students in the classroom, physical education, Art, music or STEM setting. The course meets for one semester and carries one credit. The purpose is to give students who have an interest in these areas some practical experience in working with a teacher and elementary children. Students who are accepted into the program will be assigned to an instructor at an Elementary School for one period each day and will assist in a variety of activities and tasks. It is expected that the student will be involved and active in the class activities. The class meets as a group on designated mornings from 7:30-7:50am.

**663/663Y - WOMEN'S STRENGTH AND CONDITIONING****Grades 10-12 Elective 1 Credit****Level 2 Course****Prerequisite: Forever Fit and Female**

Women's Strength and Conditioning is an elective physical education class designed for female students interested in a weight room-based fitness class. This class will focus on improving the health and skill-related components of fitness of each student. These components include muscular strength, muscular endurance, cardiovascular endurance, body composition, flexibility, speed, agility, power, coordination, balance, and reaction time. Units of study may include, but are not limited to, proper technique of exercises, fitness training principles, basic human anatomy, nutrition, and mental skills training. Students will be required to work on goal-setting, and will track their growth and progress throughout the course.

**665 - LIFETIME ACTIVITIES****Grades 10-12 Elective 1 Credit****Level 2 Course****Prerequisite: Forever Fit**

The activities selected in this course will foster a lifelong interest in physical recreation. This is not a competitive atmosphere, but rather an exploratory class where students can experience many different kinds of activities that can be performed at any stage of life, and learn the skills to be able to be successful at them. This course will also focus on improving their health related components of fitness. Some of the activities will take place off campus, and possibly outside of the normal school day, including Saturdays. There may be an additional cost incurred by the student for some activities. Activities may include: fitness testing, racquetball, spike ball, corn hole, canoeing, tennis, disc golf, aquatics, cross country skiing, wall climbing, winter survival (quinzee building), archery, badminton, pickleball, volleyball, wallyball, and bowling.



## MEDICAL SCIENCES

(Fulfills a Phy Ed/Health Graduation Requirement)

### **670 - INTRO TO SPORTS MEDICINE** **Level 2 Course**

**Grades 11-12 Elective 1 Credit**  
**Prerequisite: Health**

This course is designed for students who are interested in fields such as athletic training, physical therapy, medicine, nurse, fitness, physical education, physiology of exercise, kinesiology, nutrition, EMT, and other sports medicine related fields. This course provides students an opportunity for the study and application of the components of sports medicine, including but not limited to sports medicine related careers, medical terminology, anatomy and physiology, kinesiology, recognition, evaluation and immediate care of athletic injuries, injury prevention principles, the healing process, rehabilitation techniques, therapeutic modalities, taping and wrapping techniques, emergency procedures and sports nutrition.

### **672 - MEDICAL TERMINOLOGY/CAREERS** **Level 2 Course**

**Grades 11-12 Elective 1 Credit**  
**Prerequisite: Biology A/B**

This course will emphasize the origin and the basic structure of medical words, including prefixes, suffixes, word roots, combining forms and plurals. Knowledge of these terms will be extremely important in anyone thinking of going into a career in any medical field. Medical terminology offers a fast-paced exploration of pronunciation, spelling, and definition of many medical terms based on a body systems approach. This course will cover essentially ALL of the body systems including but not limited to the musculoskeletal system, integumentary system, endocrine system, nervous system, and the immune system. This course also provides students the opportunity to explore careers in health care. Instruction includes exposure to health careers, employability skills, and ethics as well as a field trip to the cadaver lab at SDSU. This class will include multiple guest speakers and a volunteering component with Allina, where you are leaving class once every week to work in the hospital with a variety of professionals in the field.

### **674 - DISEASES AND DISORDERS** **Level 2 Course**

**Grades 11-12 Elective 1 Credit**  
**Prerequisite: Biology A/B**

This course is designed to introduce students to common diseases and disorders of the human body. Included is the history of medicine, bioethics, medical terminology within each body system, common symptoms of diseases, routine diagnostic tests, and common therapies associated with diagnoses. The etiology (cause) of disease, common childhood diseases, genetic and developmental disorders, the effect of aging on the body, immune system diseases, and common mental health diseases and disorders are covered topics. This course is designed to encourage critical thinking and problem solving in a medical setting.

## SCIENCE

**698 - FUNDAMENTALS OF BIOLOGY A**  
**Level 1 Course**

**Grades 10-12**                      **1 Credit**  
**Prerequisite: Administrative Placement Only**

Biology is the study of living organisms, how they work, and how they interact with each other and their environment. The topics covered in the first semester include, the process of science, ecology, biochemistry, cells, and cell processes (osmosis, diffusion, active transport, photosynthesis, cellular respiration, fermentation).

**699 - FUNDAMENTALS OF BIOLOGY B**  
**Level 1 Course**

**Grades 10-12**                      **1 Credit**  
**Prerequisite: Administrative Placement Only**

This course is a continuation of Fundamentals of Biology A. Biology B will include study of heredity, DNA and its relevance to science and society, evolution, bacteria and viruses, and human body systems.

**700 - SCIENCE 9A**  
**Level 1 Course**

**Grade 9**                      **Required**                      **1 Credit**  
**Prerequisite: None**

Students will investigate and study the interactions between the four major Earth Spheres including the geosphere, atmosphere, hydrosphere, and biosphere in order to explain Earth's formation, processes, history, landscapes, and how and why earth changes over time. The course will also explore how current actions of humans are interacting with and affecting Earth's spheres leading to local and global changes. Topics to be addressed include, but are not limited to, science and engineering practices, measurement, mapping Earth's surface, minerals, rocks, plate tectonics, earthquakes, volcanoes, geologic time, meteorology, and Earth's place in the universe. Students will participate in laboratory exercises, small group activities, web-based investigations and simulations, class discussions, and projects.

**701 - SCIENCE 9B**  
**Level 1 Course**

**Grade 9**                      **Required**                      **1 Credit**  
**Prerequisite: None**

This course continues the topics from Earth Science A. Students will participate in laboratory exercises, small group activities, web-based investigations and simulations, class discussions, and projects.

**702 - BIOLOGY A**  
**Level 1 Course**

**Grade 10**                      **Required**                      **1 Credit**  
**Prerequisite: None**

Biology is the study of living organisms, how they work, and how they interact with each other and their environment. The topics covered in the first semester include, the process of science, ecology, biochemistry, cells, and cell processes (osmosis, diffusion, active transport, photosynthesis, cellular respiration, fermentation). Students will participate in laboratory exercises, small group activities, web-based investigations and simulations, class discussions, projects, and research.



**707 - MICROBIOLOGY AND BIOTECHNOLOGY**  
**Level 2 Course**

**Grades 11-12 Elective 1 Credit**  
**Prerequisite: Biology A/B**

This lab-oriented course is for students considering a career in the medical field or biotechnology (nurse, doctor, paramedic, veterinarian, X-ray technician, dentistry, clinical research, forensics, etc) or anyone interested in the biology of microorganisms. It will provide an introduction to bacteria, viruses, fungi, and molds, their impact on daily life (from food production to disease), and microbial genetics. Laboratory techniques will involve isolating, culturing, and identifying microorganisms, food production using microorganisms, and genetic modification of bacteria.

**708 - HUMAN ANATOMY & PHYSIOLOGY**  
**Level 2 Course**

**Grades 11-12 Elective 1 Credit**  
**Prerequisite: Biology A/B**

This advanced course will interest the student who wants to learn more about the human body, composition, and functions. The course is very useful for students planning a career in biology, phy ed or in a health related field (nurse, medical doctor, veterinarian, medical technologist, medical secretary, physical therapy, dentist, dental assistant, x-ray technologist, etc.) During the course, the student will study medical terminology, tissues, and the skeletal, muscular, nervous, circulatory, respiratory, digestive, urinary, and integumentary systems. A fetal pig will be dissected as well as a field trip to the cadaver lab at SDSU. Other labs will involve the use of blood pressure cuffs, stethoscopes, blood typing kits, and feature multiple dissections including hearts, lungs, and fetal pigs.

**710 - CHEMISTRY A**  
**Level 2 Course**

**Grades 10-12 Elective 1 Credit**  
**Prerequisite: Science 9B**

This class is recommended for students on a 4 year college or university path. Chemistry is a laboratory science course which includes scientific measurement and problem-solving, atomic structure, the periodic table, chemical names and formulas, equations and stoichiometry, thermochemistry, gas laws, chemical bonds, solutions, acids and bases, equilibrium, and organic chemistry. **The use of a scientific calculator is required.**

**710.5 - HONORS CHEMISTRY A**  
**Level 2 Course**

**Grades 10-12 Elective 1 Credit**  
**Prerequisite: Science 9B**

**\*\*It is recommended that only students with an interest in Chemistry and/or a B average in previous Science courses register for this course.**

Honors Chemistry A is an advanced, faster paced course than general Chemistry. Honors Chemistry is a laboratory science course which includes scientific measurement and problem-solving, atomic structure, the periodic table, chemical names and formulas, equations and stoichiometry, thermochemistry, gas laws, chemical bonds, solutions, acids and bases, equilibrium, and organic chemistry. **The use of a scientific calculator is required.**

**711 - CHEMISTRY B**  
**Level 2 Course**

**Grades 10-12 Elective 1 Credit**  
**Prerequisite: Chemistry A**

This course continues the basics started in Chemistry A, and includes the properties of acids and bases, general reactions, stoichiometry, redox reactions, thermochemistry, properties of gasses, and organic chemistry. **The use of a scientific calculator is required.**

**711.5 – HONORS CHEMISTRY B**  
**Level 2 Course**

**Grades 10-12 Elective 1 Credit**  
**Prerequisite: Honors Chemistry A**

*\*\*It is recommended that only students with an interest in Chemistry and/or a B average in previous Science courses register for this course.*

Honors Chemistry B is an advanced, faster paced course than regular Chemistry. This course continues the basics started in Honors Chemistry A, and includes the properties of acids and bases, general reactions, stoichiometry, redox reactions, thermochemistry, properties of gasses, and organic chemistry. **The use of a scientific calculator is required.**

**714 - PHYSICS A**  
**Level 2 Course**

**Grades 10-12 Elective 1 Credit**  
**Prerequisite: Algebra IIB with a C or better**

This class is recommended for students on a 4 year college or university path interested in any engineering field as a career or for anyone who has a curiosity about the physical world. It is a laboratory oriented class designed to explain the natural laws governing the universe, both on the small and large scale. First semester emphasis is in classical physics, also known as kinematics or the study of motion. Topics include Newton's laws of motion, forces, energy, momentum, and circular motion. **The use of a scientific calculator is required.**

**715 - PHYSICS B**  
**Level 2 Course**

**Grades 10-12 Elective 1 Credit**  
**Prerequisite: Physics A**

This course continues the foundation laid down in Physics A, with additional topics to be covered including; thermodynamics, light, sound, optics, electricity, magnetism, and modern day physics. Laboratory work continues to be a major component of the course. **The use of a scientific calculator is required.**

**716 - INVESTIGATING CHEMISTRY A**  
**Level 1 Course**

**Grades 10-12 Elective 1 Credit**  
**Prerequisite: None**

This course is for students who do **not** wish to pursue science after high school. It is also for those who want an introductory understanding of chemistry and the physical world. Investigating chemistry provides a broad survey of basic chemistry. The first semester examines chemical and physical properties, atomic structure and bonding, and chemical reactions. Throughout the year, the course makes use of laboratory investigations to develop the relationships between experiment and theory. This course will not fully prepare students for 4-year college or university-level science courses. **A scientific calculator is required.**

**717 - INVESTIGATING CHEMISTRY B**  
**Level 1 Course**

**Grades 10-12 Elective 1 Credit**  
**Prerequisite: Investigating Chemistry A**

The second semester continues with organic chemistry, the quantitative nature of chemical reactions, gaseous behavior, solutions, equilibrium, and acid-base chemistry. This course will not fully prepare students for 4-year college or university-level science courses. **A scientific calculator is required.**

**718 - INVESTIGATING PHYSICS A**  
**Level 1 Course**

**Grades 10-12 Elective 1 Credit**  
**Prerequisite: None**

This course is for students who do **not** wish to pursue science after high school. It is also for those who want an introductory understanding of physics and the physical world. Unlike Physics A, this course will use less mathematics and be more conceptual. It will explain the natural laws governing the universe. Laboratory investigations will cover topics including forces, energy, momentum, circular motion, and Newton's laws. This course will not fully prepare students for 4-year college or university-level science courses. **A scientific calculator is required.**

**719 - INVESTIGATING PHYSICS B**  
**Level 1 Course**

**Grades 10-12 Elective 1 Credit**  
**Prerequisite: Investigating Physics A**

This course continues the foundation laid down in Investigating Physics A, with additional topics to be covered including; thermodynamics, light, sound, optics, electricity, and magnetism. Use of computer simulations as well as hands-on lab activities will be required. This course will not fully prepare students for 4-year college or university-level science courses. **A scientific calculator is required.**

### **Concurrent Enrollment Courses: Science**

**1703/\*1703N/\*\*1703E - OUR NATURAL WORLD**  
**(BIO 100)**  
**Level 3 Course**

**Grades 10-12 Elective 2 credits**  
**Duration: One Semester (4 college credits)**  
**Prerequisite: MSU PSEO requirements**

*\*The night class is offered two nights per week (Monday and Wednesday evenings).*

*\*The early bird option takes place before school.*

Science courses in a college setting are very challenging. Take advantage of the opportunity to take this course in a setting you are already familiar with to ease the transition to college! This is a general education, introductory course offered through Minnesota State University, Mankato, designed for students **not majoring** in biology but planning to pursue a 4-year college degree. The focus is on basic biological principles with special emphasis on the human species. Included are topics on scientific problem solving, biodiversity, human and social aspects of biology, ecology, cellular processes and organ function, human reproduction, prenatal development and heredity. Topics will be covered through lecture, laboratory and small group discussions.

**1704/\*1704N/\*\*1704E GENERAL BIOLOGY I (BIO 105) Grades 10-12 Elective 2 credits**  
**Level 3 Course** **Duration: One Semester (4 college credits)**  
**Prerequisite: MSU PSEO requirements**

*\*The night class is offered two nights per week (Monday and Wednesday evenings).*

*\*The early bird option takes place before school.*

Science courses in a college setting are very challenging. Take advantage of the opportunity to take this course in a setting you are already familiar with to ease the transition to college! This is an introductory course designed for students who plan to major in a science field. Included are studies of biological processes at the sub-organismal level including cell chemistry, metabolism, reproduction, genetics and complex tissue physiology. Laboratory and discussion sessions stress problem solving and experimental design.

## SOCIAL STUDIES

**750 - AMERICAN HISTORY A**  
**Level 1 Course**

**Grade 9**      **Required**      **1 Credit**  
**Prerequisite: None**

This broad survey course will cover pre-colonial American History to 1918. Emphasis will be placed on the colonial era, the American Revolution, and the development of our governmental system through the constitutional convention. Additional units will review sectionalism leading to the Civil War and westward expansion. Students will study maps, charts, graphs, Supreme Court Cases, primary documents, and other artifacts to help them gain a more in-depth understanding of how these early developments in our country's history affected events yet to come. In addition to daily work and assessments, students should expect some writing assignments and historical inquiry projects.

**750.5 - HONORS AMERICAN HISTORY A**  
**Level 2 Course**

**Grade 9**      **Elective**      **1 Credit**  
**Prerequisite: None**

This is part one of a yearlong course that covers the same historical content and meets the American History A graduation requirement while also preparing students to take Advanced Placement and/or other College level classes in high school. There will be an emphasis on developing historical thinking skills, document analysis and academic writing skills. If you are planning on taking AP or college courses in the Social Studies department grades 10-12 this is a good starting point. Strong-performing students will have the opportunity to try and earn college credit by taking the AP US History exam in May. To be successful in this class, it is recommended that students have strong reading, writing and organizational skills.

**751 - AMERICAN HISTORY B**  
**Level 1 Course**

**Grade 9**      **Required**      **1 Credit**  
**Prerequisite: None**

Students in this course will study and examine the major events, important people, and social movements in the twentieth century and beyond. Focus will center on changes to American government and society through the New Deal and the Reagan Revolution. Additional focus will be given to the role of the United States in international affairs will include WWII, the Cold War, and the global struggle against terrorism. Students will study maps, charts, graphs, Supreme Court Cases, primary documents, other artifacts, and current events to help them gain a more in-depth understanding of how these events still impact us today. In addition to daily work and assessments, students should expect some writing assignments and historical inquiry projects.

**751.5 - HONORS AMERICAN HISTORY B**  
**Level 2 Course**

**Grade 9**      **Elective**      **1 Credit**  
**Prerequisite: None**

This is part two of a yearlong course that covers the same historical content and meets the American History B graduation requirement while also preparing students to take Advanced Placement and/or other College level classes in high school. There will be an emphasis on developing historical thinking skills, document analysis and academic writing skills. If you are planning on taking AP or college courses in the Social Studies department grades 10-12 this is a good starting point. Strong-performing students will have the opportunity to try and earn college credit by taking the AP US History exam in May. To be successful in this class, it is recommended that students have strong reading, writing and organizational skills.



**754 - WORLD HISTORY A**  
**Level 1 Course**

**Grade 10**      **Required**      **1 credit**  
**Prerequisite: None**

World History A is part one of a year-long survey course providing students the opportunity to explore recurring themes of the human experience common to civilizations around the globe from 10,000 B.C.E to 1450 C.E. The application of the themes of geography and an analysis of the cultural traits of civilizations and societies will help students understand the roots of significant events, ideas, movements, and phenomena. They further encounter the contributions and patterns of living in civilizations focused around continuity and change, exemplified by issues such as war and peace, internal stability and strife, and the development of institutions. To become informed citizens, students require the knowledge of the civilizations that have helped shape the development of the world we live in today. Students will follow human development from hunting and gathering through early ancient civilizations and medieval societies, to powerful pre-modern centralized states around the world.

**755- WORLD HISTORY B**  
**Level 1 Course**

**Grade 10**      **Required**      **1 credit**  
**Prerequisite: None**

World History B is part two of a year-long survey course providing students the opportunity to explore recurring themes of the human experience common to civilizations around the globe from 1450 C.E to Present. The application of the themes of geography and an analysis of the cultural traits of civilizations and societies will help students understand the roots of significant events, ideas, movements, and phenomena. They further encounter the contributions and patterns of living in civilizations focused around continuity and change, exemplified by issues such as war and peace, internal stability and strife, and the development of institutions. To become informed citizens, students require the knowledge of the civilizations that have helped shape the development of the world we live in today. Students will continue following the history of humanity from early exploration and trade to industrialization, imperialism, world wars, and globalization.

**756 - AP WORLD HISTORY A**  
**Level 3 Course**

**Grade 10**      **Required**      **1 credit**  
**Prerequisite: None**

This is part one of a year-long course in AP World History and is offered to highly motivated students who are looking for a challenging and fast-paced curriculum. Students who enroll in this class should be strong readers and writers. It is a rigorous, college-level course designed to explore human history from 10,000 B.C.E. to the present. We will emphasize the development of analytical and writing skills necessary for success on a collegiate level. To this end, the course devotes considerable time to the critical evaluation of primary and secondary sources, analysis of historiography (The principles, theories, or methodology of scholarly historical research and presentation) and inquiry into global connections that have shaped our present world. A special emphasis will be given to preparation for the National AP Exam, including historical writing through essay and document-based questions (DBQ) as well as objective evaluations. The primary prerequisites are motivation, time, devotion, and willingness to read, write, and think critically as well as extensively. The purpose of the course, however, extends beyond the possibility of earning college credit by providing students with the opportunity to develop skills and knowledge that will form a useful foundation for college studies.

**757 - AP WORLD HISTORY B**  
**Level 3 Course**

**Grade 10**      **Required**      **1 Credit**  
**Prerequisite: None**

This is part two of a year-long course in AP World History and is offered to highly motivated students who are looking for a challenging and fast-paced curriculum. Students who enroll in this class should be strong readers and writers. It is a rigorous, college-level course designed to explore human history from 10,000 B.C.E. to the present. We will emphasize the development of analytical and writing skills necessary for success on a collegiate level. To this end, the course devotes considerable time to the critical evaluation of primary and secondary sources, analysis of historiography (The principles, theories, or methodology of scholarly historical research and presentation) and inquiry into global connections that have shaped our present world. A special emphasis will be given to preparation for the National AP Exam, including historical writing through essay and document-based questions (DBQ) as well as objective evaluations. The primary prerequisites are motivation, time, devotion, and willingness to read, write, and think critically as well as extensively. The purpose of the course, however, extends beyond the possibility of earning college credit by providing students with the opportunity to develop skills and knowledge that will form a useful foundation for college studies.

**758 - HUMAN GEOGRAPHY**  
**Level 2 Course**

**Grades 11-12**      **Required**      **1 Credit**  
**Prerequisite: None**

This course will introduce students to concepts that will help them understand "the why of where." This course has six major themes: Map Interpretation, Population and Migration, Cultural Patterns, Political Patterns, Industrial and Economic Development, and Rural and Urban land use. Students will complete a project that analyzes two countries in depth in these areas. Current events and case studies are drawn from all world regions to help students better understand the world we live in today.

**764 - AMERICAN GOVERNMENT**  
**Level 2 Course**

**Grades 11-12**      **Required**      **1 Credit**  
**Prerequisite: None**

The goal of this course is to promote understanding and insight into the workings of the American system of government. The course is designed to show how public decisions are made and how the student can become involved in the decision making process. Students will learn about the U.S. Constitution, Federalism, individual rights, presidential primaries, elections, and the three branches of government. Issues and events affecting the governmental operations will be studied and discussed as they become newsworthy. Students interested in earning college credit should consider taking the College in The Schools Course, American National Government offered through SMSU.

**766 - PSYCHOLOGY**  
**Level 2 Course**

**Grades 11-12**      **Elective**      **1 Credit**  
**Prerequisite: None**

This course allows students to explore the human mind and why people do what they do. This course is recommended for all students interested in understanding human behavior and why people do the things they do. Attention will be devoted to psychological theories as they relate to nature versus nurture, chemistry of the brain, learning, consciousness, mental health, motivation, and personality types. Students are expected to participate in labs, group demonstrations, role-play, and numerous group activities. Students interested in earning college credit should consider taking the College in The Schools Course, Introduction to Psychology offered at NUHS through MSU - Mankato.

**768 - SOCIOLOGY**  
**Level 2 Course**

**Grades 11-12 Elective**      **1 Credit**  
**Prerequisite: None**

The students will look into the stages of human development and examine how socialization agents can affect child, teen, and adult development. This class will also look into such topics as folkways violations, dating, drug use, marriage, deviant behavior and their impact on society.

**769 - HISTORY THROUGH FILM**  
**Level 2 Course**

**Grades 11-12 Elective**      **1 Credit**  
**Prerequisite - American History A/B and**  
**World History A/B**

This is an elective course for students who are inquisitive about and interested in the study of history. While taking the course students will explore historical topics and periods using films, readings, & lectures. This course treats films as texts deserving the same skills of critical thinking and analysis as any other source used within a history course. Films will be chosen to cover a variety of themes including war, civil rights, and protests, politics, media, genocide/terrorism, sports, etc. Before viewing each film we will examine the significance of the time period and/or event and its impact through analyzing primary source accounts, newspaper and magazine articles, and secondary sources. After each film, there will be a project, debate, class discussion, essay or quiz. The class is designed to reveal that some films are valid historical sources, offering a glimpse into the social, political, and cultural-historical moment in which it was created, but also inaccuracies should be identified and evaluated.

**770 - ECONOMICS**  
**Level 2 Course**

**Grades 11-12 Required**      **1 Credit**  
**Prerequisite: None**

Economics is a course primarily concerned with identifying and clarifying the choices that we make as human beings. We study these choices because most of them involve the use of resources, and resources are scarce. In this course, you will learn about concepts such as supply and demand, opportunity costs, entrepreneurship, types of businesses, money and banking, and investment opportunities. You will also learn how the government is involved in the economy through taxes, spending, regulation, and the provision of various services.

**780 - AP HUMAN GEOGRAPHY**  
**Level 3 Course**

**Grades 11-12 Required**      **1 Credit**  
**Prerequisite: None**

*\*This course meets the Human Geography Graduation Requirement.*

This is a one-semester course that provides students a more in-depth college-level experience in geography and follows the AP course guidelines. Students will use analytic skills in the thematic areas of map interpretation, population and migration, Cultural Patterns, Political Patterns, Industrial and Economic Development, and Rural and Urban land use. Current events and case studies are drawn from all world regions to help students better understand the world we live in today. This course is designed to help students take the Advanced Placement Human Geography Test in May, which could earn them college credit. (This AP test consists of Multiple Choice and Short answer questions; there are no long essays.)

## **Concurrent Enrollment Courses: Social Studies**

**1751 - AMERICAN GOVERNMENT (POL SC 120)**  
**Level 3 Course**

**Grades 11-12 Required      2 Credits**  
**Duration: One Semester (4 College Credits)**  
**Prerequisite: SMSU PSEO Requirements**

*\*This course meets the American Government Graduation Requirement.*

This is a survey course of American government and politics, which offers a broad study of the nation's formal and informal political institutions; the U.S. Constitution; intergovernmental relations; electoral politics; and various debates about governance and politics in the United States. Students who meet the requirements will receive credit from Southwest State University. There will be an emphasis on how the governmental process works through analyzing current events. Students should be prepared to have significant reading assignments to be completed outside of class hours.

**1760/\*1760N EUROPEAN HISTORY (HIST 180)**  
**Level 3 Course**

**Grades 11-12 Elective      2 Credits**  
**Duration: One Semester (4 College Credits)**  
**Prerequisite: MSU PSEO Requirements**

This 4 credit college course meets either four days per week and examines European history from its origin to the seventeenth century. It is the first of a two-part western civilization sequence that the MSU-Mankato History Department offers at the freshmen level. This course is designed to kindle your interest in the past by revealing worlds and peoples whose accomplishments and activities, for better or worse, have deeply impacted our world today. Using a history detective approach through reading, studying, reflective writing, and discussions, we will attempt to propose and debate explanations for the history of preindustrial Europe focusing on Ancient Greek and Roman civilizations, the Middle Ages, Black Plague, Renaissance, Reformation, and overseas European expansion as it impacts us today.

**1766/1766N - INTRO TO PSYCHOLOGY (PSY 101)**  
**Level 3 Course**

**Grades 11-12 Elective      2 Credits**  
**Duration: One Semester (4 College Credits)**  
**Prerequisite: MSU PSEO Requirements**

*\*The traditional course is offered Monday - Thursday during regular school hours.*

*\*The night course is offered on Wednesday evenings from 6:00-8:30pm. The night classes will not be held on Wednesday of MEA break or when NUHS classes are not in session.*

Students successfully completing this course will earn four college credits from Minnesota State University Mankato. This ~~hybrid~~ course meets four days per week or and includes both interactive online course work and thought provoking classroom discussion. Introductory psychology will provide students a true college experience with the support of a highly trained high school teacher and college professor working cooperatively. Introductory psychology is a survey of all the major areas of psychology. Includes an orientation to the attitudes and methods of the psychologist, the physiological basis of behavior, nature vs nurture debate, growth and development, sensation, perception, conditioning, human learning, cognitive processes, social interaction, personality, conflict adjustment, methods of measurement, behavior disorders and applied psychology.

**1767/1767N - PSYCHOLOGY OF LEARNING (PSY 150) Grades 11-12 Elective 1 Credit**  
**Level 3 Course** **Duration: One Semester (2 College Credits)**  
**Prerequisite: MSU PSEO Requirements**

*\*The traditional course is offered Monday - Thursday during regular school hours.*

*\*The night course is offered on Wednesday evenings from 6:00-8:30pm.*

Has anyone ever taught you how to learn? If you are like the majority of students then the answer is, "no." You have spent years taking tests to measure learning, but do you know how to make the most of your learning in college? In this course we will look at what current learning science research in cognitive psychology tells us about how to best learn and remember. A strong emphasis will be made on applying the topics of: attention, learning strategies, remembering strategies, and time spent outside the classroom to ensure college success. This course will focus on identifying facts vs. misconceptions of how we learn and how our memory works. We will look at current fundamentals of learning science and apply those strategies and theories to learning and remembering in college. Students will also take the Learning and Study Strategies Inventory (LASSI) which is a student-self evaluation and prescription tool for understanding their own learning strengths and weaknesses. Students will use the LASSI program to develop personalized strategies for improving their own learning and getting ready for college.

## **WORLD LANGUAGES**

<b>800/801 - GERMAN IA/B</b>	<b>Grades 9-12</b>	<b>Elective</b>	<b>2 Credits</b>
<b>Level 1 Course</b>	<b>Prerequisite:</b>	<b>None</b>	

Connect yourself to the world by learning a second language! Students develop beginning communication skills. This German course offers the students a chance to learn everyday vocabulary, to study the grammatical structure of the foreign language, and to be able to communicate and express ideas in German. Oral class participation plus German culture are also stressed.

<b>802/803 - GERMAN IIA/B</b>	<b>Grades 10-12</b>	<b>Elective</b>	<b>2 Credits</b>
<b>Level 2 Course</b>	<b>Prerequisite:</b>	<b>German I</b>	

German II is a continuation of German IA/B. We will review the topics discussed in the first year and expand on them considerably. We will proceed from the simple sentence format to more complex structures, including the use of clauses and the past tense. We will continue to improve our pronunciation and conversational abilities, as well as begin to develop writing skills.

<b>804/805 - GERMAN IIIA/B</b>	<b>Grades 11-12</b>	<b>Elective</b>	<b>2 Credits</b>
<b>Level 2 Course</b>	<b>Prerequisite:</b>	<b>German II</b>	

German III focuses on reading short stories, writing short compositions and further improving the oral communication abilities of the student. Special attention will also be given to understanding the cultures of the German-speaking lands.

<b>810/811 - SPANISH IA/B</b>	<b>Grades 9-12</b>	<b>Elective</b>	<b>2 Credits</b>
<b>Level 1 Course</b>	<b>Prerequisite:</b>	<b>None</b>	

Spanish I gives the student a solid foundation of the Spanish language, with emphasis on vocabulary, pronunciation, basic grammar, and simple dialogue. Students will be encouraged to use Spanish as an everyday means of communication. This will be done with a variety of oral and written activities, guided readings, and games. Cultural components of the Spanish-speaking world will be introduced in context. Emphasis is on active participation. The objective by the end of the course is students will have obtained a Novice Mid proficiency or higher in all four modalities (reading, writing, listening and speaking), based on the ACTFL Proficiency Guidelines.

<b>812/813 - SPANISH IIA/B</b>	<b>Grades 10-12</b>	<b>Elective</b>	<b>2 Credits</b>
<b>Level 2 Course</b>	<b>Prerequisite:</b>	<b>Spanish I</b>	

Spanish II continues building students' proficiency in Spanish through readings and listening practice using comprehensible input. Activities and games will be used to demonstrate understanding of the target language. Students will experience an increase in writing and oral output, with more focus on grammatical accuracy. Cultural components of the Spanish-speaking world will be introduced in context. Emphasis is on active participation. The objective by the end of the course is students will have obtained a Novice High proficiency or higher in all four modalities (reading, writing, listening and speaking), based on the ACTFL Proficiency Guidelines.

## **Concurrent Enrollment Course: World Language**

**814/815 - SPANISH IIIA/B (SPAN 102)**  
**Level 3 Course**

**Grades 11-12 Elective 3 Credits**  
**Duration: Two Semesters (4 College Credits)**  
**Prerequisite: Span. II/MSU PSEO Requirements**

Spanish III is an intermediate class that focuses on furthering proficiency in Spanish with a goal of achieving Intermediate Low proficiency in all four modalities (reading, writing, listening and speaking), based on the ACTFL Proficiency Guidelines. The course includes cultural information about countries of the Spanish-speaking world. Emphasis is given to oral and written proficiency through thematic units, including such topics as cooking, travel, and narration of stories in the past. In addition to utilizing authentic materials, Spanish novels will be read and discussed in class. Class will be conducted exclusively in Spanish, with students expected to be active participants in the classroom.

**816/817 - SPANISH IVA/B (SPAN 201)**  
**Level 3 Course**

**Grades 11-12 Elective 3 Credits**  
**Duration: Two Semesters (4 College Credits)**  
**Prerequisite: Span. III Requirements**

Spanish IV is an intermediate class that focuses on furthering proficiency in Spanish with a goal of achieving Intermediate Mid in the four modes of communication, based on the ACTFL Proficiency Guidelines. It also includes a presentation of condensed cultural notes on countries of the Spanish-speaking world. Emphasis is given to oral and written proficiency through thematic units, including such topics as describing oneself and your interests, storytelling in the past, business, and the environment. In addition to utilizing authentic materials, Spanish novels will be read and discussed in class. Class will be conducted exclusively in Spanish, with students expected to ~~become~~ be active participants in the classroom.

## **College Partnerships with NUHS**

### **Concurrent Enrollment**

**Minnesota State University, Mankato (MSU)**  
**Southwest Minnesota State University (SMSU)**  
**And**  
**Bemidji State University (BSU)**

NUHS offers Concurrent Enrollment courses through MSU, SMSU, and BSU. Concurrent Enrollment courses are at no cost to the family. The concurrent courses offered at the high school are listed below. Descriptions for the courses can be found in the previous pages.

#### **MSU, Mankato**

Spanish III A/B (4 college credits)  
Public Speaking (3 college credits)  
Introduction to Psychology (4 college credits)  
European History to 1648 (4 college credits)  
Biology; Our Natural World (4 college credits)  
Biology; General Biology I (4 college credits)  
Psychology of Learning (2 college credits)

#### **SMSU, Marshall**

Academic Writing (4 college credits)  
Global Perspectives (3 college credits)  
American National Government (4 college credits)

#### **BSU, Bemidji**

College Algebra (4 college credits)  
Trigonometry (3 college credits)  
Calculus (5 college credits)

### **Articulation Courses**

Several courses offered at New Ulm High School qualify students to earn college level credit at several area Technical Colleges, Community Colleges and some Universities. NUHS students can earn these credits by completing the basic standards of the credit certificate at a "B" level. These credit certificates are called Articulation Agreements and are issued by NUHS teachers of articulated courses (listed in course description). They entitle students entering programs at participating postsecondary institutions to gain free credit for equivalent coursework already completed while in high school. These agreements can save students several hundred dollars in tuition costs and reduce the time spent in post secondary school. If you have any questions see the teachers of courses listed below:

Animal Science  
Small Engines

Welding  
Advanced Welding  
Crops and Soils

Culinary Arts  
Relationships  
Child Development



# **NUHS Traditional Credit Check Sheet**

## **46 credits are needed to graduate**

each course listed below is valued at 1.0 credit

34 of those credits are listed below as specific course requirements

and the rest of your credits (12 credits) are made up of taking whichever courses you choose.

### **English:** (8 Credits Required)

Grade 9

\_\_\_ English 9A or Honors English 9A

\_\_\_ English 9B or Honors English 9B

Grade 10

\_\_\_ English 10A or Honors English 10A

\_\_\_ English 10B or Honors English 10B

Grades 11-12

\_\_\_ World Literature or Global Perspectives

\_\_\_ Writing I: Voc. Wtg, Research & Wtg

*Pick one class from 2 out of 3 categories below*

\_\_\_ Modern Lit: Lit of Diversity or Contemporary Lit

\_\_\_ Writing II: Creative Wtg, Journalism, Academic Wtg, Wtg App

\_\_\_ Performance: Public Spk., Intro to Acting, or Theater Productions

**Total** \_\_\_ / 8 English Credits

### **Math:** (6 Credits Required)

Grade 9-12

\_\_\_ Geometry A or Honors Geometry A

\_\_\_ Geometry B or Honors Geometry B

\_\_\_ Algebra IIA or Honors Algebra IIA

\_\_\_ Algebra IIB or Honors Algebra IIB

\_\_\_ Probability/Statistics

\_\_\_ Math Elective (including Fund of Alg A/B)

**Total** \_\_\_ / 6 Math Credits

### **Social Studies:** (7 Credits Required)

Grade 9

\_\_\_ Am. History A or Honors Am. History A

\_\_\_ Am. History B or Honors Am. History B

Grade 10

\_\_\_ World History A or AP World History A

\_\_\_ World History B or AP World History B

Grades 11-12

\_\_\_ Human Geog. or AP Human Geog.

\_\_\_ American Government

\_\_\_ Economics, Ag Economics, or Business Econ

**Total** \_\_\_ / 7 Social Studies Credits

### **Science:** (6 Credits Required)

Grade 9

\_\_\_ Science 9A

\_\_\_ Science 9B

Grade 10-12

\_\_\_ Fund of Bio A or Bio A or Honors Bio A

\_\_\_ Fund of Bio B or Bio B or Honors Bio B

\_\_\_ Chemistry A/Invest. Chem A or

Physics A/Invest. Physics A

\_\_\_ Chemistry B/Invest. Chem B or

Physics B/Invest. Physics B

**Total** \_\_\_ / 6 Science Credits

### **Health/ PE:** (3 Credits Required)

Grade 9-10

\_\_\_ Forever Fit or PEOPEL Aide

Grade 9-12

\_\_\_ Health

Grade 10-12

\_\_\_ Phy Ed Elective

**Total** \_\_\_ / 3 Health/PE Credits

### **Fine Arts:** (2 Credits Required)

Grades 9-12

\_\_\_ Fine Art Elective (Visual Art or Music)

\_\_\_ Fine Art Elective (Visual Art or Music)

**Total** \_\_\_ / 2 Fine Art Credits

### **CTE:** (2 Credits Required)

\_\_\_ CTE Elective

\_\_\_ CTE Elective

**Total** \_\_\_ / 2 Fine CTE Credits

### **Credit Summary=** \_\_\_ / 46 Total Credits

\_\_\_ /8 English Credits

\_\_\_ /2 Fine Arts Credits

\_\_\_ /6 Math Credits

\_\_\_ /6 Science Credits

\_\_\_ /2 CTE Credits

\_\_\_ /7 Soc. Study Credits

\_\_\_ /3 Health/PE Credits

\_\_\_ /12 Elective Credits

# NUHS Career and Technical Pathway Credit Check Sheet

## 46 credits are needed to graduate

each course listed below is valued at 1.0 credit

27 credits are required by the Minnesota Department of Education

10-12 required credits are listed below in CTE requirements

7-9 credits are made up of CTE courses and other elective options

### **English:** (8 Credits Required)

Grade 9

\_\_\_ English 9A or Honors English 9A

\_\_\_ English 9B or Honors English 9B

Grade 10

\_\_\_ English 10A or Honors English 10A

\_\_\_ English 10B or Honors English 10B

Grades 11-12

\_\_\_ World Literature or Global Perspectives

\_\_\_ Writing I: Voc. Wtg, Research & Wtg

Pick one class from 2 out of 3 categories below

\_\_\_ Modern Lit: Lit of Diversity or Contemporary Lit

\_\_\_ Writing II: Creative Wtg, Journalism, Academic Wtg, Wtg App

\_\_\_ Performance: Public Spk., Intro to Acting, or Theater Productions

**Total** \_\_\_ / 8 English Credits

### **Math:** (6 Credits Required)

Grade 9-12

\_\_\_ Geometry A or Honors Geometry A

\_\_\_ Geometry B or Honors Geometry B

\_\_\_ Algebra IIA or Honors Algebra IIA

\_\_\_ Algebra IIB or Honors Algebra IIB

\_\_\_ Probability/Statistics

\_\_\_ Math Elective (including Fund of Alg A/B)

**Total** \_\_\_ / 6 Math Credits

### **Social Studies:** (7 Credits Required)

Grade 9

\_\_\_ Am. History A or Honors Am. History A

\_\_\_ Am. History B or Honors Am. History B

Grade 10

\_\_\_ World History A or AP World History A

\_\_\_ World History B or AP World History B

Grades 11-12

\_\_\_ Human Geog. or AP Human Geog.

\_\_\_ American Government

\_\_\_ Economics, Ag Economics, or Business Econ

**Total** \_\_\_ / 7 Social Studies Credits

### **Science:** (6 Credits Required)

Grade 9

\_\_\_ Science 9A (Earth and Space)

\_\_\_ Science 9B (Earth and Space)

Grade 10-12

\_\_\_ Fund of Bio A or Bio A or Honors Bio A

\_\_\_ Fund of Bio B or Bio B or Honors Bio B

\_\_\_ Invest. Chem A or Invest. Physics

\_\_\_ Invest. Chem B or Invest. Physics B

**Total** \_\_\_ / 6 Science Credits

### **Health/ PE:**

Not required by MDE

### **Fine Arts:**

May be replaced with CTE credits

### **CTE:** (8 required credits)

Grades 9-12

Required:

\_\_\_ Intro to Trades (required course)

\_\_\_ Woods/Mechanics/Welding/Metals\*\*

\*\* (choose at least one entry level course)

\_\_\_ CTE Elective

\_\_\_ CTE Elective

\_\_\_ CTE Elective

\_\_\_ CTE Elective

\_\_\_ CTE Internship/EE (Required) Grade 12

\_\_\_ CTE Internship/EE (Required) Grade 12

### **Elective Credits** (7-9 required credits)

\_\_\_ Elective      \_\_\_ Elective

\_\_\_ Elective      \_\_\_ Elective

\_\_\_ Elective      \_\_\_ Elective

\_\_\_ Elective      \_\_\_ Elective

\_\_\_ Elective

### **Credit Summary= \_\_\_ / 46 Total Credits**

\_\_\_ /8 English Credits

\_\_\_ /7 Soc. Study Credits

\_\_\_ /8 CTE Specific Credits

\_\_\_ /6 Math Credits

\_\_\_ /6 Science Credits

\_\_\_ /11 Electives