NRHEG High School

2026-2027

Registration Manual

General Information for Students and Parents

The registration manual lists graduation requirements that have been established by the NRHEG School Board and the State of Minnesota. The manual is subject to change, particularly the standards and credits as may be required by changes in federal education related legislation, state law, or school board action.

It is essential that you are familiar with the requirements for graduation. It is in a student's best interest to plan as far in advance as possible for their high school experience. There is a four-year planning sheet at the end of this manual. Each student is asked to complete the four-year plan, which will then be kept in the counseling office for future reference. The four-year plan is not intended to "lock" students into a four-year program. A student's plan can be changed. The four-year plan is a tool that will assist students in meeting graduation requirements and college entrance requirements or other needs for after high school.

Registration for high school classes is an important process. The high school staff is available for advice and help in the planning process. The high school counselor meets with each grade to go through the entire manual, explain the registration process and go through graduation and college entrance requirements. The counselor is also available for individual appointments to help students/parents with registration.

All registrations must be approved, with a signature, by the student registering as well as by a parent or guardian.

NRHEG High School Graduation Requirements

Students must enroll in a minimum of 48 semester credits during their four years of high school. To graduate, students must complete a minimum of 48 semester credits. Below is a list of required classes and the number of elective credits you must register for.

Ninth Grade

English 9	2 credits
Civics/Human Geography	2 credits
Geometry	2 credits
Earth Science	2 credits
Physical Education	1 credit
Computer Apps I	1 credit
Electives	2 to 4 credits

Tenth Grade

English 10	2 credits
American History	2 credits
Algebra I or Algebra II	2 credits
Biology	2 credits
Health/Physical Education	2 credits
Electives	2 to 4 credits

Eleventh Grade

English (Choices)	2 credits
Algebra II (or college credit math option)	2 credits
World History (or AP Euro History option)	1 credit
Money Mgmt./Careers	1 credit
Chemistry or Physics	2 credits
Electives	4 to 6 credits

Twelfth Grade

English (Choices)	2 credits
Government/Economics	2 credits
Electives	6 to 8 credits
Chemistry or Physics (if not taken in 11th grade)	2 credits

In addition to the credits outlined above, students must also have the following: A) Two credits of the arts. To meet this requirement, students can choose from Band, Choir, Guitar, all art classes,Woods I and II, Plant Science I and II and Metals.

High School Testing

The State of Minnesota requires all public schools to offer the following tests to every high school student:

- Grade 9, Citizenship Test
- Grade 10, MCA Reading Test, MCA Science Test
- Grade 11, MCA Math Test, ACT college entrance test

While the tests listed above must be offered to all students, many juniors and seniors may also need to take the accuplacer test (used by all Minnesota community and technical colleges) and may choose to retake the ACT test. See the counseling office for more information.

College Credit Opportunities

Students, there are four ways you can earn college credit by taking courses here at NRHEG. These opportunities are possible through Articulated courses, the College Now program, Advanced Placement and the Health Science program explained below.

1) **Articulated courses** are certain courses students can take in high school and receive credit or partial credit for those courses at various Minnesota Technical and Community Colleges. This is a way for students to save time and money in their future technical or community college program. For more information, go to www.ctecreditmn.com. At this website, students can create an account for themselves, which will keep track of their articulated credit earned. The articulated courses for 2026-2026 are Child Development and Culinary Arts in the FACS department, and the following Ag classes: Ag Mechanics, Ag Power and Electrification, Animal Science, Natural Resource Science, Plant Science, Welding II and Metals. **These courses are indicated in the manual with a double asterisk ** by their title.** Any student in grades 10-12, regardless of GPA and class rank, can earn articulated credit by taking one of these classes.

2) The **College Now Program** allows students the opportunity to earn college credit through Southwest Minnesota State University for certain classes taken here at NRHEG. For students not planning to attend Southwest State after high school graduation, the College Now courses transfer to other colleges or universities on the same basis as all other Southwest State courses. To enroll in College Now courses, students must meet the following criteria: a) Be ranked in the top 1/3 of your class at the end of your sophomore year, or in the top ½ of your class at the end of your junior year. b) Be ready to take on a rigorous course of study that will require more work and good study skills.

   There are three College Now courses being offered in 2026-2027; College Algebra, College Trigonometry and Calculus are open to both juniors and seniors.

3) **Advanced Placement** is a program sponsored by the College Board. Students must meet the same criteria as the College Now program in order to take an AP course. Most colleges will accept AP courses for college credit if a student has passed the end of year AP test. AP courses at NRHEG for the 2026-2027 is European History, which will fulfill the World History credit requirement needed for graduation.

4) See below for information on the **Health Science Academy** program.

Registration Guidelines

Students, be certain that you have registered for at least six classes each semester, plus two alternate choices. You are encouraged to take seven classes each semester unless you need and will use a study hall to get work done. Complete the registration form for each semester, have a parent/guardian sign the form, and return the form to the counseling office by the due date.

Drop/Add

We will conduct drop/add during the first **TWO** days of both semesters. High school students (grades 9-12) will be allowed to drop and add elective classes to meet graduation requirements and to best prepare for their future plans. Requests for certain teachers will only be considered when the switch would involve moving from a larger class to a smaller class. Students who drop a class after the first two weeks of each semester will receive a grade of "WF" (withdrew failing) on their transcript. Students who drop a year-long class after first semester will receive the grade they earned first semester, and a grade of "WF" will be entered on their transcript for 2nd semester. Students must get a parent signature to drop a year-long class, or to drop any class after the normal drop-add period. There will be no schedule changes throughout the year, including at the quarter. The school administration reserves the right to consider exceptions to these rules on a case by case basis which presents circumstances that are rare and/or unique.

Tutor and Teacher Assistant Programs

The tutor and teacher assistant programs are available to juniors and seniors who have not failed any classes the previous year. Placement is not guaranteed. Students can earn ½ credit per semester for being a tutor/teacher assistant.

College Entrance Requirements

As you are making your course plans for next year and your four-year plan, keep in mind the following requirements/recommendations for college entrance.

Four-year colleges: Most four-year colleges, including the Minnesota State University System, require the following courses to be taken in high school:

English – Four years
Social Studies – Three years
Science – Three years
World Language – Two years
The Arts (includes music) or World Culture – One year
*Math – Three years (Geometry, Algebra I, Algebra II) required. A fourth year is recommended.

The University of Minnesota requires four years of math.

The ACT or SAT college entrance test is often test optional. The ACT is much more commonly used throughout the Midwest. All students will have the opportunity to take the ACT in March or April of their junior year. Having a class rank at least in the top half of your class is also very important for admission to a four-year college.

Two-year colleges: Most two-year colleges simply require a high school diploma for general admission. However, many majors/programs at technical and community colleges do have certain course requirements in order to get into the major/program. Also, students must score at satisfactory levels on the "Accuplacer" college placement test in order to take college level classes.

For all post-high school plans: It always helps your chances of being admitted to the college of your choice and your chances of winning scholarship money if you've been active in a variety of activities and demonstrated positive leadership in school and your activities.

CURRICULUM GUIDE

English

English 9 — 2 Sems.
Grade 9 — Required

Vocabulary, Composition, Literature and Grammar
Speaking, Drama and Literature, Novel and Short Stories

English 10 — 2 Sems.
Grade 10 — Required

Composition, Grammar, Drama and Literature
Speech Communication, Research for Communication, Drama and Literature

Junior and Senior English Choices

(Students must complete at least one reading oriented and one writing oriented course among the four semesters of Jr./Sr. English that are required for graduation.)

Myths and Monsters *(Reading Oriented)* — 1 Sem.
Grades 11, 12

This exposes students to a wide range of mythologies, tales of fantastical creatures and monsters, and modern interpretations of classic tales. (Pederson)

Great Authors *(Reading Oriented)* — 1 Sem.
Grades 11, 12

Familiarizes students with great and famous authors and their works from a variety of historical periods. Student analysis of these works will be part of the curriculum. Possible authors to review include Twain, Poe, London, Wells, Bradbury, Steinbeck, Orwell, Vonnegut, Lee, Wilder, Grisham, and Christie. (Barnes)

Great Authors II *(Reading Oriented)* — 1 Sem.
Grades 11, 12
Prerequisite: Great Authors

This course will deepen students' understanding and appreciation of literature as an art form as well as strengthen students' ability to read short stories, poems, novels and drama for meaning. Possible authors to review include those in Great Authors I as well as Shakespeare, Chaucer, Crighton, Dickens, Verne, and Lewis. (Barnes)

Theatre and Drama Basics *(Writing Oriented)* — 1 Sem.
Grades 11, 12

Students will read, act out, critique, and write a variety of plays and speeches. Students will also analyze and create some examples of modern propaganda and complete film reviews. (Pederson)

Creative Writing *(Writing Oriented)* — 1 Sem.
Grades 11, 12
Max Students: 25

Challenges students to create original written works in a variety of styles including fairy tales, short stories, memoirs, poetry, parody, satire, and children's literature. (Barnes)

Exploration Writing *(Writing Oriented)* 1 Sem.
Grades 11, 12

Students will learn about different research and citation methods and apply them to a wide range of writing assignments using topics of their choice. (Pederson)

Everyday Communication *(Writing Oriented)* 1 Sem.
Grades 11, 12

Offers students a chance to build and strengthen skills in a wide range of spoken and written communication styles. Areas covered will include resume writing, interviewing, public speaking and persuasion, critical reading and research writing. (Barnes)

Nonfiction Reading (*Reading Oriented)* 1 Sem.
Grades 11, 12

Students will read, analyze, critique, and discuss a variety of nonfiction topics from a variety of sources. The types of sources may include but are not limited to: videos, movies, letters, textbooks, diary entries, legal documents, encyclopedias, blogs, articles, and websites. (Pederson)

AP English
Grades 11, 12

AP English Literature and Composition is organized by genre and includes units on Short Fiction, Drama, Longer Fiction, and Poetry**(CR1)**. It closely follows the requirements described in the Course and Exam Description (CED), including the fundamentals of literary analysis and introductory college composition. Each week students discuss and engage in a variety of writing activities focusing on argumentation, interpretation, analysis, rhetorical strategies, exposition, structure, and style. Students read and study a variety of novels, plays, poems, and short stories from ancient Greece to the present. The course focuses on the experience of literature, the interpretations of literature, the evaluation of literature, and writing to develop stylistic maturity and sophistication. Students will practice their writing through numerous timed essays, which have the opportunity for revision, as well as longer essays that require outside research and APA formatting. Students will also practice oral communication skills through literary presentations and participating in and facilitating discussions. The AP English Literature and Composition course is intended to give you the experience of a typical introductory-level literary analysis course in college. The course includes intensive study of representative works from various genres, periods, and cultures, concentrating on works of recognized literary merit. Texts are college-level readings. Some of the readings will be of a mature subject matter. If students or their parents have concerns about these readings, they should not hesitate to contact me. (Barnes)

Social Studies

Civics 1 Sem.
Grade 9 Required

Civics: county, state and local government.

Human Geography 1 Sem.
Grade 9 Required

The study of people, locations and environments throughout the world.

American History 2 Sems.
Grade 10 Required

Events leading up to, including and after the Civil War.
The industrial growth of America to the West as well as a growing urban nation.

World History 1 Sem.
Grade 11 Required

Study of the development of humans and their path to a civilized society.
Study of different civilizations and their political, religious and culture structures.

American Government 1 Sem.
Grade 12 Required

Study of the Federal Government System.

Economics 1 Sem.
Grade 12 Required

Study of socio-economics and the American economic system.

Psychology 1 Sem.
Grades 11, 12 Elective

Psychology will cover the basic terminology and concepts of the human mind. Students will be involved in interpreting and predicting human behavior. Students will develop an understanding of the importance of interpersonal communication in personal and professional life. Careers involving psychology will also be discussed and related to the course material. These careers will range from medical to counseling.

Sociology 1 Sem.
Grades 11, 12 Elective

Sociology will cover the basic terminology and concepts of human behavior in different societies. Students will be involved in interpreting beliefs and values of societal groups. Students will also study how human behavior differs not only in the United States, but also around the world.

The Holocaust 1 Sem.
Grades 11, 12 Elective
Max Students: 28

An in-depth analysis of world history's greatest tragedy. The course will discuss the rise of Nazism and the persecution of Jews as well as the legacy of hate and intolerance. Students will learn the ideas behind inclusion, tolerance and cultural diversity.

AP European History (Advanced Placement Class) 2 Sems.
Grades 11, 12 Elective

This is a college level course on European history that introduces students to the cultural, economic, political and social developments that have shaped Europe and the rest of the world since 1450. Students will seek to understand the principal themes of European history, analyze historical evidence and historical interpretations, and express historical understanding in writing. The major areas of study will include the age of Napoleon, the industrial revolution, the beginning of the 20th century, world war I and II, the cold war and the modern western world. This course will count as fulfilling the world history credit required for graduation.

Pop Culture
Grades 11,12 1 Sem.
Elective

Over the course of the semester, we will examine music, film, television, and video games, to see how they change our culture and how societal changes, major world events, and more changes popular culture. Popular culture influences and is influenced by the people in society. Pop culture affects different aspects of our daily lives, including how we talk, how we interact with each other, how we think, and what we listen, play, and watch. WE also affect what becomes popular through societal values, our geographical location, and our heritage. Starting in the early 1900's, we will listen to music, watch films, and explore video games all the way up to the present day to see how our popular culture has changed, through a compare and contrast method. The course will also explore how brands, celebrities, and companies use popular culture to spread their influence and sell their products to consumers.

Mathematics

(Students at all levels of high school math will need a TI-83 or TI-84 graphing calculator!)

Geometry 2 Sems.
Grade 10, 11, 12 Required

This course places an emphasis on student investigation and discovery to find geometric relationships through cooperative learning. Students will study a wide range of topics including two- and three-dimensional figures, inductive and deductive reasoning and proof writing, and trigonometry. **Students will need a TI-83 or TI-84 graphing calculator for this class.**
Second semester continuation of the above.

Algebra I 2 Sems.
Grades 9, 10, 11, 12 Required

A full year course in algebra from a modern standpoint. Int. Algebra provides a foundation for the upper level mathematics courses. Equations and inequalities of the 1st and 2nd degree are explored as well as introducing data analysis. **Students will need a TI-83 or TI-84 graphing calculator.**
Second semester continuation of the above.

Algebra II 2 Sems.
Grades 10, 11, 12 Required

Prerequisite: Int. Algebra
This course further explores the topics introduced in Int. Algebra including linear and quadratic equations and inequalities, exponents and radicals. We will cover the math standards required by the state of Minnesota that were not covered in Int. Algebra and Geometry. **Students will need a TI-83 or TI-84 graphing calculator for this class.**
Second semester continuation of the above.

College Algebra (College Now Class) 1 Sem.
Grade 11, 12 Elective

Prerequisite: Algebra II with a grade of B- or higher. For seniors choosing to take College Algebra, it is highly recommended that you scored at least a 22 or higher on the math portion of the ACT test.
A study of the concepts of algebra at a college level. Topics include: equations and inequalities; polynomial, rational, exponential and logarithmic functions and their graphs; and systems of linear and

non-linear equations. **Students will need a TI-83 or TI-84 graphing calculator for this class.**

College Trigonomtry (College Now Class) 1 Sem.
Grade 11, 12 Elective

Prerequisite: College Algebra

A study of both right-triangle trigonometry and circular functions with an emphasis on real-life applications. Topics include: writing and solving trigonometric equations; graphing and interpreting graphs of trigonometric functions; reading and proving trigonometric identities; and writing and using vectors. **Students will need a TI-83 or TI-84 graphing calculator for this class.**

Calculus (College Now Class) 2 Sems.
Grade 12 Elective

Prerequisite: College Algebra and College Trigonometry

This course is a study in differential and integral calculus. Topics include an introduction to limits and continuity, derivatives and their applications, integrals and their application, anti-derivatives and the Fundamental Theorem of Calculus, as well as an introduction to differential equations using slope fields and Euler's Method. There is an emphasis on conceptual understanding and working with functions represented graphically, numerically, and analytically. The graphing calculator is used extensively. **Students will need a TI-83 or TI-84 graphing calculator for this class.**

Second semester continuation of the above.

Science

Earth Science 2 Sems.
Grade 9 Required

This laboratory science course is an introduction to chemistry and physics principles. Students will be using lab equipment and other resources to investigate the characteristic properties of matter and energy. This course has an emphasis on laboratory safety, metric system measurement, scientific report writing, and use of mathematics in science.

Second semester continuation of the above.

Biology 2 Sems.
Grade 10 Required

This class covers cell structure, simple genetics, invertebrates and the vertebrates. This class will study all animal phylum. Structure and functions of the animal systems will be demonstrated by dissections of several animals. The use of taxonomic keys will be used to identify insects and other animals.

Continuation of the above.

Human Anatomy 2 Sems.
Grades 11, 12 Elective

Prerequisite: Earth Science and Biology

This semester of Human Anatomy will cover the skeletal, muscular, circulatory, and reproductive systems. Both the structure and functions will be covered.

A continuation of first semester, systems covered will be: digestive, nervous, endocrine, respiratory, lymphatic and immune.

Chemistry 2 Sems.
Grades 11, 12 Elective

Prerequisite: Earth Science and Biology

Chemistry is the study of materials, their composition and structure, and the changes they undergo. By studying chemistry, students will be able to understand the nature of the materials around them and the many practical benefits of chemistry in our society. Students will learn how to think scientifically and solve problems through use of scientific processes. They will have opportunities to engage in scientific work through laboratory and other hands-on activities. Students enrolling in Chemistry should have good working knowledge of Algebra.

Second semester continuation of the above.

Physics 2 Sems.
Grades 11, 12 Elective

Prerequisite: Earth Science and Biology.

A study of motion, mechanics, wave theory, sound, optics, electricity, thermodynamics, and modern physics. A laboratory class, students should plan to stay in this course for the full year. Students need a solid background in Algebra.

Continuation of the above

Physics in Agriculture 2 Sems
Grades 11, 12 Elective

Prerequisite: Earth Science & Biology

A study of the required physics standards for graduation but in a non-traditional setting. Students will study the necessary principles of physics through units in welding, combustion engines, electrical wiring, renewable energy, and other career based and skill based units of study.

Forensic Science 1 Sem.
Grades 11, 12 Elective

Forensic Science is a semester-long course that introduces students to the application of science to investigate crimes and examine evidence from crime scenes. In this lab-based course, you will apply what you have learned in science and math to the field of crime scene investigation.

Health Science Academy

WHAT: A unique opportunity for interested NRHEG Juniors and Seniors to participate in a health careers program designed to help high school students prepare for a variety of health care related occupations. The program consists of both coursework (potential college credit courses, "Health Science Technology" and "Medical Terminology") and practical, hands-on clinical experiences.

WHEN and WHERE: Participating students would be enrolled in the program throughout the year during the 1st period of the day. One day each week students will be doing the clinical experiences from 8:00 to 9:00 am at the Waseca-Mayo Clinic and Hospital in Waseca, and the other four days each week students will be working on their online Medical Terminology and Health Science courses.

WHO: Interested juniors and seniors with at least a 3.0 GPA may apply. A total of 50 students can be accepted into the Academy from Waseca, NRHEG, JWP, WEM and other area schools. The Academy instructors make the decisions regarding which students are accepted.

HOW: Students who qualify and pre-register for the class in February will get a link to an online application from the counseling office in April or May.

OTHER CONSIDERATIONS: Students are completely responsible for transportation to and from the clinical experience site. The school district will not be providing transportation for this opportunity. There will be a minimal fee for the program ($20 - $30) for a required scrubs uniform and other possible materials. Some of the clinical experiences may be available at the New Richland Care Center. Juniors accepted into the academy will have the opportunity to take further courses in the program their senior year.

Students interested in taking the Health Science Academy program should indicate "Health Science Academy", registration number 34, on their registration form. It is a year-long class.

Business

Computer Applications I ** — 1 Sem.
Grade 9 — Required
Max Students: 24

Computer Applications I is an introductory course that covers the operation of the personal computer hardware and software (Microsoft 365). The course is an overview of a personal computer operating system, word processing (Word/Docs), spreadsheet (Excel/Sheets), and presentation (PowerPoint/Slides). Students will create many types of personal and business communications, professional looking reports, charts, and multimedia presentations. Students will apply technology applications to solve and/or present solutions to problems and will develop skills with file management and network use. This course is an articulated course and may qualify for credits at participating community or technical colleges for students earning a grade of B (85%) or higher.

Computer Applications II **- Certification — 1 Sem. (Offered every other year)
Grades 10, 11, 12 — Elective
Prerequisite: Computer Applications I
Max Students: 20

Computer Applications II focuses on developing advanced skills in word processing, spreadsheet, and presentation productivity software applications. Students will develop professional production documents in Word, Excel, and PowerPoint in preparation for the Microsoft Office Specialist certification exams in these applications. These could include: occupational reports, multi-column newsletters, resumes, and business correspondence in Word, professional-looking budgets, financial statements, sales invoices, and inventory records in Excel, and professional-grade sales presentations, employee training, instructional materials, and slide shows in PowerPoint. Students will also learn database objects including tables, relationships, data entry forms, multi-level reports, and multi-table queries. Students will apply technology applications to solve and/or present solutions to problems and will develop skills with file management and network use. This course is an articulated course and may

Money Management/Careers 1 Sem.
Grade 11 Required

Money Management will help students develop financial literacy knowledge and skills to prepare them for life after high school. Strong, well-rounded skills in personal finance impact individual choices that directly influence occupational foals and future earnings potential. Topics will include establishing a budget, earning a living, saving and investment options (stocks, bonds, real estate, etc.), selecting and using credit options, personal income tax planning and filing, financial problem solving and decision making, banking organization services options, and managing risk through insurance. A financial management simulation (Reality Day) will be used. Guest speakers on specific unit topics will enhance student learning.

Introduction To Business 1 Sem.
Grades 9, 10, 11, 12 Elective

Students will explore the world of business through topics that include finance, management, ethics, legal forms of business and operations as well as marketing. Students will be able to demonstrate an understanding of contemporary concepts and basic principles of effective business practices. Through an introduction to business foundations in our free-market system, students develop a comprehensive view of business trends, the role of government, society, and our global economy that all contribute to successful business operations. Current industry issues will provide insights for case students and entrepreneurial analytics. Students will gain insights on consumer buying decisions, human resources, and financial management through preparation of a business plan and professional job seeking 13 materials for careers in business.

Accounting I: Foundations ** 1 Sem.
Grades 10, 11, 12 Elective

This course introduces the fundamental accounting principles and procedures used in businesses. Content includes business transactions and the accounting equation, transactions that affect assets, liabilities, and owner's capital, transactions that affect revenue, expenses, and withdrawals, recording transactions in a general journal, posting journal entries into general ledger accounts, the six-column worksheet, financial statements for a sole proprietorship and completing the complete accounting cycle simulation for a sole proprietorship. Guest speakers from accounting/finance firms will enhance student learning. This course is an articulated course and may qualify for credits at participating community or technical colleges for students earning a grade of B (85%) or higher.

Hospitality and Tourism 1 Sem.
Grades 9, 10, 11, 12 Elective

This course introduces a wide range of topics in the hospitality, travel, and tourism industry: hotel and restaurant management, travel and tourism options, Cruise ships, airlines, resorts and theme parks, restaurant and food service, and events planning. Job shadowing, industry tours, student participation in simulations when possible.

Marketing Media 1 Sem.
Grades 9, 10, 11, 12 Elective

In this course, students will discuss the topic of Marketing and its principals as well as how it related to media while working with different types of platforms.

Health

Health — 1 Sem.
Grade 10 — Required

Health will involve studying almost all the organ systems, including the digestive, cardiovascular, respiratory, reproductive, endocrine, immune, urinary and integumentary systems. Pregnancy, birth, and childhood will also be covered. Personal care, exercise and lifelong fitness skills will be implemented as well. Community health education and the prevention of injuries and violence are also part of the class.

Art Education

Graphic Arts — 1 Sem.
Grades 9, 10, 11, 12 — Elective

This course will be an introduction to the graphic arts. We will study the history of the art form and some of the methods and techniques used in graphic arts. Design projects could include brochures, cut letters, product packaging, posters, logos, and school spirit sayings displayed around the school.

Ceramics I — 1 Sem.
Grades 9, 10, 11, 12 — Elective

This course is a study of clay, which will include different hand-building techniques. Students will be introduced to different techniques that can be used on white ware such as glazes, opaque stains and underglazes.

Ceramics II — 1 Sem.
Grades 9, 10, 11, 12 — Elective

Prerequisite: Ceramics I

Hand building and "throwing" on the wheel will be part of this class. We will broaden our knowledge of painting techniques and the history of the wheel. Ceramic projects could include a container with a lid, a mobile and various projects from the wheel.

Photography — 1 Sem.
Grades 9, 10, 11, 12 — Elective

Photography is designed to help you understand camera and media exploration. Various techniques will be taught that will help you improve your creative photography skills.

Drawing/Painting I — 1 Sem.
Grades 9, 10, 11, 12 — Elective

This is a course designed for the student who likes to draw and/or paint. Several drawing and painting mediums will be used such as pencil, watercolor, pastel, and acrylic. Drawings of nature, portraits, and landscapes are examples of some of the drawings included in the course. Different styles and techniques will be studied.

Drawing/Painting II — 1 Sem.
Grades 9, 10, 11, 12 — Elective

This is designed for the student who wants to further develop their drawing and painting skills. The student will create more elaborate work and compositions. Interior and exterior compositions. Working in pastels, watercolor, and acrylics.

Digital Media 1 Sem.
Grades 11, 12 Elective

This semester-long high school elective course will use lecture, videos, hands-on learning, and community experts to introduce students to computer applications for photos and design such as Adobe Photoshop and Adobe In-Design. Panther News episodes and original videos designed and produced by students will be created using Windows Movie Maker, IMovie, video animation including Claymation, Object Motion, and Pixelation, in addition, to digital music production. Web page design may be included using a variety of programs. Students in this course will also assist with the pre-production of the yearbook.

World Languages

Spanish I 2 Sems.
Grades 9, 10, 11, 12 Elective

This year long course introduces the student to the Hispanic language and culture. It is designed to help students acquire the four basic skills associated with language learning: listening, speaking, reading and writing. The course focuses on oral proficiency, stressing conversation through speaking and listening. The study of Spanish and Latin American culture is covered as well as the geography of the Spanish-speaking world. Several Hispanic holidays and activities will be introduced to the students.
Second semester continuation of the above.

Spanish II 2 Sems.
Grades 10, 11, 12 Elective

Prerequisite: Spanish I

Spanish II is a continuation of Spanish I. Students will learn a more extensive vocabulary as well as advanced grammar. More emphasis is placed on the skills of reading and writing. Oral proficiency conversational skills of listening and speaking however continue to be introduced and reinforced. The study of culture and geography are emphasized in this course due to the importance of cultural understanding to world language learning. The Hispanic culture and customs will be celebrated through various activities.
Second semester continuation of the above.

Spanish III 2 Sems.
Grades 11, 12 Elective

Pre-requisite: Spanish II

This class will strengthen the student's knowledge and fluency in the written language and broaden the appreciation of Hispanic culture and civilization. The goal is to provide an opportunity for the student to improve on the four skills of listening, speaking, reading and writing that were introduced in Spanish I and II. A more advanced form of writing is studied as well as the beginning of literary study. Various activities are planned to promote cultural awareness.
Second semester continuation of the above.

Industrial Technology

Woods I — 1 Sem.
Grades 9,10,11, 12 — Elective
Max Students: 15

Woods I will introduce students to basic fundamentals of woodworking including the properties of different kinds of woods, planning and designing a project, and learning to use common tools in the woodworking process including the table saw, time saver sander, table routers, compound miter boxes as well as a variety of hand tools. Each student will have the opportunity to complete a project or multiple projects in the class and the students are responsible for the cost of materials for their projects. Shop safety is stressed and students will have to pass safety tests before they will be allowed to work on their project.

Woods II — 1 Sem,
Grades 9, 10, 11, 12 — Elective
Max Students: 15

Prerequisite: Woods I

This class will introduce students to intermediate fundamentals of woodworking including the properties of different kinds of woods, planning and designing a project, and learning to use common tools in the woodworking process including the table saw, time saver sander, table routers, compound miter boxes as well as a variety of hand tools. Students will also learn how to use framing and finish air nailers safely. They will also have the opportunity to use latest battery powered tools. Each student will have the opportunity to complete a project or multiple projects in the class and the students are responsible for the cost of materials for their projects. Students will also have an opportunity to work on class projects such as picnic tables and lawn furniture. Shop safety is stressed and students will have to pass safety tests before they will be allowed to work on their projects.

Construction Trades — 1 Sem.
Grades 10, 11, 12 — Elective
Max Students: 15

Prerequisite: At least one previous shop class

This class will introduce students to complex fundamentals of building trades. Each student will have the opportunity to complete a project or multiple projects in the class and the students are responsible for the cost of materials for their projects. Students will also have an opportunity to work on class projects such as, storage sheds, picnic tables and lawn furniture. They will also learn how to construct a garage and home. In addition, they will learn how to build a foundation and pour a concrete floor for a home and garage. Shop safety is stressed and students will have to pass safety tests before they will be allowed to work on their projects.

Music Education

Concert Band — 2 Sems.
Grades 9, 10, 11, 12 — Elective

Prerequisite: Jr. High Band

Concert Band is for students with prior instrumental musical knowledge. The purpose is to give students a solid music education based on participation in rehearsal and performance. Pep band and marching band are also a part of being in concert band with jazz band another possibility for interested students. Lessons are required of all students and will focus on individual technique and improvement of advanced musical abilities. Attendance at all scheduled events is mandatory.

Second semester continuation of the above.

Concert Choir — 2 Sems.
Grades 9, 10, 11, 12 — Elective

The concert choir will perform four concerts a year and other selected performances. Attendance at all scheduled events is mandatory.
Second semester continuation of the above.

Guitar — 1 Sem.
Grades 9,10,11,12 — Elective

Guitar class is a semester-long class that teaches you the basics of guitar. You will learn how to play songs, how to be a musician, and work on writing your own music. During the second semester, we will learn how to be a part of a band by learning drums, bass, and guitar parts for your favorite songs. You will learn the skills to learn any song you would like to, and how to work as a team to create a full band!

Family and Consumer Sciences

(Course names followed immediately by **** are Articulated courses**. See page 4 for more information.)

Foods I: Fundamentals of Food Preparation — 1 Sem.
Grades 9, 10, 11, 12 — Elective

Fundamentals of Food Preparation is an introductory course valuable for all students. Bring your appetite to this hands-on cooking class as we learn about the basics of selecting, handling, and preparing food for best results in nutrition, health, and flavor. Materials covered are especially relevant for students interested in careers related to nutrition or the food service industry, as well as those who wish to learn the basics of food preparation. Major course topics include: factors that influence food choices, food safety and sanitation, measuring and equivalents, nutrition across the lifespan, nutrition for athletes, various food preparation techniques, and professional culinary plating. Students will use their acquired culinary skills to create a variety of delicious dishes throughout the semester. Participation and teamwork in the foods lab are required. This course builds a foundation for materials covered in Culinary Arts and Hospitality.

ProStart 1 — Food Handlers Certification
Grades 10, 11, 12 — Year
Prerequisite: Fundamentals of Food Preparation/Prostart I — Elective

Welcome to Prostart 1, where high school culinary meets real world industry. If you're ready to take things to the next level, ProStart will help prepare you for training programs and occupations in the hospitality field. This course offers students an opportunity to receive the Food Handlers Certification, which is required for persons working in food service. This certification can offer students higher pay in introductory positions in the food service industry. Major topics in this course are: introduction to the hospitality industry; food safety and personal hygiene, sanitation and safety, industry regulations, food handler's certification and testing, basic culinary skills, professional knife skills, food preparation techniques, and real world applications. We will use advanced techniques in candy making, as well as preparing a variety of food dishes using dry, moist and combination cooking methods. Participation, teamwork, and professionalism are required in this course.

ProStart 2 ** (Combined with ProStart I)
Grades 10, 11, 12 Year
Prerequisite: **ProStart 1** Elective

In Prostart 2 students will take their culinary skills to the next level by focusing on restaurant management and the operating side of business. Students will develop their own business models, organize, design and plan a menu to include creative new dishes, calculate food cost analysis in menu planning, design a venue in which to serve their creations and may even cater a few events in the community. Participation, teamwork, and professionalism are required in this course.
This course offers articulated credit from South Central college. Students who have completed all requirements of the Prostart program (completion of prostart 1 & 2) are awarded an industry-recognized certificate - the Prostart National Certificate of Achievement. Students who receive the certificate are eligible for NRAEF scholarship opportunities and course credits at some of the country's leading hospitality and culinary arts colleges and universities.

**Articulated credit: awarded upon the completion of both ProStart 1 and ProStart 2

ProStart 3
Grades 11 and 12 Year
Prerequisite: ProStart I and II Elective

Students will apply their knowledge and management skills learned in level two by taking on the responsibility of managing and operating the schools concessions. Students will be responsible for supply inventory management, costing supplies, creating menus, setting pricing, ordering from distributors, and staff scheduling. Students in level three will continue building on their catering knowledge by taking the lead on planning and executing catering events. Coursework for level three will include the ServeSafe food Managers text and Managers exam. This Certification allows students to apply for management positions in the industry.

International Cuisine 1 Sem.
Grades 9, 10, 11, 12 Elective

The International Cuisine course uses activities and food labs to highlight and explore the connection between a culture and its associated foods. This course will cover history, climate, and topography as they relate to each region's dietary customs, cuisines and cooking methods. By investigating cultural, spiritual, and social influences on food choices, learners will gain an awareness and understanding of diverse populations within American society. We will also analyze world hunger and examine personal and global changes that can be made to help combat this societal issue. Because international foods and elements of culture have such far-reaching influence in the hospitality industry, this course is a must for those either already working in food preparation or planning a career in the hospitality industry.

Housing and Interior Design 1 Sem.
Grades 9, 10, 11, 12 Elective

Housing and Interior Design is an introductory course essential for those students interested in a career within the housing, architecture, interior design, or furnishings industry. This course will allow students to earn a credit in art, while also learning valuable skills. Students will learn about homes as environments for lifelong growth and development, criteria to use when selecting a home, the process followed to purchase one, the components and systems within the home, trends in housing, and the design aspects of selecting furniture. Students will Identify the elements and principles of design within housing and interior design; create a floor plan using architectural symbols; place furniture based on principles of design, traffic flow, activity and existing architectural features; and apply housing and interior design knowledge, skills and processes to create a specific final design project.

Child and Human Development** 1 Sem.
Grades 9, 10, 11, 12 Elective

Child and Human Development is an introductory course for all students interested in careers working with children, areas of healthcare, human services, or social services. This course includes the study of human development from conception, including the birthing process, growth and development of children, child care giving and nurturing, support systems for parents and caregivers, child health and wellness best practices, special conditions affecting children, the aging process through death, and career exploration in child and human development. A significant class element is the opportunity to care for the "Baby Think it Over" (electronic) baby simulator. These computerized models simulate real babies, allowing learners the experience of providing care for an infant in the real world environment. Learners will also participate in service learning through introductory laboratory/field experiences with children in the preschool. This course provides a foundation for post-secondary and continued education in all career areas related to children, child development, nurturing of children, and human aging.

Early Childhood Careers 1 Sem.
Grades 9, 10, 11, 12 Elective

If you love working with children and are thinking about a career in early childhood education, elementary education, child psychology, sociology or social services, this is an important course for your future. Major topics include career paths in early childhood education, developmental theories, planning education spaces, management of child care operations, employability skills within the field, observation of and reflection regarding child developmental stages, and an overview of the Child Development Associate (CDA) degree requirements. Learners will have the opportunity participate in service learning through introductory laboratory/field experiences working with children in our own community. Possible opportunities include working with children in the preschool classroom, volunteer work through community programs, helping with activities offered by community education, and a parent night out hosted by the class.

Interpersonal Relationships 1 Sem.
Grades 9, 10, 11, 12 Elective

Family and Interpersonal Relationships is especially relevant for students interested in careers that require close interaction with people. During this introductory course, the learner will obtain knowledge and skills helpful in developing and maintaining healthy relationships. Learners will investigate inherited and acquired traits that affect personal identity, personality, and self-esteem. Learners will analyze steps typically taken in the decision-making process. Major elements of the course have to do with the transition from adolescence to adulthood, including relationship development within family, relationship development beyond the family, and understanding the components of healthy relationships. The learner will have the opportunity to discuss diverse family structures and examine the impact of societal, demographic, technological, and economic pressures which affect relationships. Learners will examine coping techniques to strengthen families and relationships against crisis and stress.

Life Smarts 1 Sem.
Grade 12 Elective

Are you ready to get Life Smart? This is a fun, fast paced course that gives you the skills you need to "Adult." This program's broad curriculum, developed by the National Consumers League, covers essential elements of everyday life: personal finance, health and safety, technology, the environment, and consumer rights and responsibilities; its curriculum is sponsored by the American Better Business Bureau (BBB). Life Smarts helps students address important issues like buying a car, managing credit cards, marketplace safety, avoiding scams, consumer rights laws, filing complaints with companies, renting a home or apartment, home safety, and what to do in emergencies. This unique program provides a variety of optional enrichment experiences for youth including online, state, and national competitions. Life Smarts is designed to help students develop critical thinking skills and expand leadership through service learning and teamwork.

Agriculture Education

Garden and Landscape
Grades 9, 10, 11, 12
This is a SUMMER course
TBD Garden and Landscape is a summer course that will allow students hands-on experience in maintaining both gardens for the production of food and landscapes. The course will be a non-traditional offering with no specific class hours or schedule, instead catering to the needs, interests, and availability of the students enrolled. Students will have a set number of hours they will need to complete. This will be a pass/fail course worth 60 hours (1 quarter) of class credit time.

Ag Mechanics** 1 Sem.
Grades 9, 10,11, 12 Elective

This class is a combination of a small engines class and a selection of units on power systems. Students will learn the basics of small gas engines, including diagnostics, maintenance and repair.

Ag Power and Electrification** 1 Sem.
Grades 9,10,11, 12 Elective
Max Students: 20

Students will spend the majority of this class learning the basics of electrical wiring. Upon completion that should have the skills to wire the majority of circuits found in any household. Further class time will be spent on other agricultural power systems.

Welding I 1 Sem.
Grades 9, 10, 11, 12 Elective
Max Students: 20

In this class students will learn welding processes. Fusion and braising welding skills will be developed on electrode welders, oxy-acetylene and MIG.

Metals 1 Sem.
Grades 10, 11, 12 Elective
Max Students: 20

Prerequisite: Completed Welding class with a "C" or better
This class will further explore the various technologies in metal working. Students will learn to use a TIG welder, CNC plasma cutter, and various metal bending and manipulation tools. Previous welding experience in a school welding course is required. Time for projects will be made available during this class. This course can count as an art credit.

Welding II** 1 Sem.
Grades 9, 10, 11, 12 Elective

Prerequisite: Completed Welding with a "C" or better

This class will be a continuation of the Welding class with more advanced welds performed and more advanced technology used. Students will learn to use the TIG welding, the plasma cutter, and the CNC plasma cutter. There will be time at the end of this course to work on small welding projects at the student's discretion.

Plant Science I** 1 Sem.
Grades 9, 10, 11, 12 Elective
Max Students: 24

This wide ranging course will cover everything from gardening and greenhouse management to landscape design to floriculture. Students will learn about plant growth and development, how to raise garden crops, how to design and install landscapes, marketing and production of floral arrangements and more. This course is highly hands on and will involve a good deal of time outdoors and in the greenhouse working on the school gardens, grounds, and plant projects. This course can count as an art credit and science credit. Students need to earn a "C" or better in this class to qualify for the Plant Science II class.

Plant Science II 1 Sem.
Grades 10, 11, 12 Elective

This class is for students who have completed Plant Science I with a grade of "C" or better and who wish to continue to learn the topics in that course. It will be held in conjunction with the Plant Science class, but the students will have additional levels of requirements and projects to complete.

Natural Resource Science** 1 Sem.
Grades 9, 10, 11, 12 Elective
Max Students: 24

This class will deal with the natural resources of Minnesota including wildlife, soils and water. Class lab activities will include soil sample tests, water tests, basic environmental science, forestry and wildlife management. Trips to local resources will be planned when possible. This class fulfills 1 credit of the 6 science credits required for graduation.

Animal Science** 1 Sem.
Grades 9, 10, 11, 12 Elective
Max Students: 24

The focus of this course will be on the animal industry. This includes but is not limited to dairy cattle, beef cattle, swine, sheep, goats, horses, fish, dogs and cats. Students will learn the basics of nutrition and management, veterinary care, housing, marketing, and selection. Each industry will be examined to better educate students on the animal industry as a whole.

Ag Economics 1 Sem.
Grades 11, 12 Elective
Max Students: 24
(Note: To receive Economics credit this course must be taken as a senior)

The world of ag business will be used as a foundation to teach students the basics of both running a successful business of any type and the principles of economics involved. Students will cover topics in record keeping, marketing, decision making, sales and service, business planning, and those economic principles involved in both local and global trade. Students planning on owning their own farm business or other private business should consider this course.

Physics in Agriculture 2 Sems
Grades 11, 12 Elective

Prerequisite: Earth Science & Biology

A study of the required physics standards for graduation but in a non-traditional setting. Students will study the necessary principles of physics through units in welding, combustion engines, electrical wiring, renewable energy, and other career based and skill based units of study.

Physical Education

Students need to complete two (2) courses between their 9th and 10th grade year to meet Minnesota State Physical Education requirements. One (1) tier one course is required before registering for a tier two (2) course.

Tier 1 classes:

Team Sports
Grades 9-12 1 Sem.

This class will focus on invasion and net/wall games with a focus on teamwork, cooperation and competitive gamesmanship. Games played will include, but are not limited to basketball, football, soccer, kickball, softball, dodgeball, volleyball. Effort and participation are critical aspects in accomplishing the standard driven work.

Leisure Activities
Grades 9-12 1 Sem.

This class will be a slower paced experience focusing on activities for a lifetime. Games played will include, but are not limited to badminton, golf, and bowling. Many activities will be focused on individual performance.

Weights and Fitness 1 Sem.
Grades 9-12

This class will be focused on an introduction to the weight room and physical fitness. Fitness and training concepts will be explored. Participation and an interest in bettering one's physical fitness are a must.

Aerobic Fitness 1 Sem.
Grades 9-12

This class will explore the simple aspects of fitness, like walking. The focus will be on physical fitness through low impact experiences. A fitness/walking log will be kept.

Tier 2 classes: (Students must have taken at least one tier 1 class)

Coaching and Reffing
Grades 11, 12 1 Sem.

This class will focus on the competitive games played that require coaches and refs and how they work. A focus on the need for both and how to successfully be involved in that aspect.

Speed and Strength

This class is for sophomores and juniors heavily interested in increasing their speed and strength. The focus will be on impactful workouts to improves one's physical and athletic performance.

Team Games

This class will focus on all the fun physical education games, with an upperclassmen focus.

REACH 1 Sem.

Grades 9-12 Elective

REACH is a program that is a support class for students in Grades 9th-12th grade. The REACH class focuses on Relationships & Respect, Education & Enthusiasm, Accountability, Character and Hard Work. Students will work on setting personal, family and academic goals, will be able to have daily support in academics, social emotional, relationships and more. Discussions are held weekly on various topics including mental health, character education, and service projects.

Work Experience

12th grade only

Work Experience is a credited course whose objective is to provide students with work related skills that they can carry forward into any career should they choose to forgo traditional post-secondary education in lieu of entering the workforce. The majority of the classroom component will be completed through online units and assessments. Certain assessments such as the job interview component will require in person time but any such requirement will be done with the student's work schedule and commitments in mind.

Education Career Academy

This two-semester course sequence introduces high school students to teaching and the educational landscape. Students explore educational theories, classroom management, and culturally responsive teaching through hands-on activities and teaching practice. They examine how schools' function, investigate diverse education careers, and develop professional skills including resume writing, job searching, and interview preparation. The program helps students gain real-world experience and confidently explore career pathways in education.

Engineering Career Academy **NEW**

This four-course sequence trains students in modern industrial systems and automation. Students learn electricity and electronics basics, including circuit analysis and troubleshooting. The program covers programmable logic controllers (PLCs) for creating and editing control programs, sensor technologies for monitoring systems, and fluid-powered devices used in industrial machinery. Through hands-on labs, students develop practical skills in troubleshooting, system design, and maintenance while emphasizing safety, technical writing, and problem-solving.

Health Science Academy

This program prepares students for healthcare careers through foundational and specialized courses. Students learn essential workplace skills, medical terminology, and communication for healthcare settings. The program offers multiple pathways: Basic Nursing leading to state Nursing Assistant certification through classroom study, lab skills, and clinical rotations; Sports Medicine focusing on injury prevention and athletic care; and Anatomy and Physiology providing in-depth study of body systems and their functions. Students gain practical knowledge in patient care, medical documentation, and healthcare technology to build a foundation for various health science careers.

Information Technology Career Academy

This program prepares students for IT careers through online coursework in web development, cybersecurity, programming, and computer hardware. Students learn to create websites using HTML, CSS, and SEO methods, while gaining cybersecurity skills in threat recognition, network defense, and firewall management. The curriculum includes programming fundamentals using Alice and JavaScript, plus practical experience assembling computers, installing operating systems, and troubleshooting hardware and software issues. Upon completion, students are prepared for the Palo Alto Networks PCCET certification with practical skills in programming, cybersecurity, web development, and IT support.

education career
ACADEMY
Inspiring today's learners to be tomorrow's leaders s
A program of SCSC

Fall Semester
The World of Teaching Explore 1 HS Semester Credit
Prerequisite: None

This course provides high school students with an introduction to the wide world of teaching and the skills and knowledge needed to become effective teachers in any environment or situation. The coursework is a combination of assignments, observations, reflections, teaching practice, interviews, videos, quizzes, and projects. It has a focus on culturally responsive teaching & learning, literacy, and social emotional learning. The course also covers various aspects of teaching, including educational theories, classroom management, lesson planning, and fostering an inclusive learning environment.

Throughout the course, students will have opportunities to apply what they learn, gaining proficiency in teaching others as well as learn the steps required to become a licensed teacher.

Important:
It's not a comprehensive teacher preparation course at the collegiate level for people who have already decided to become teachers.

Spring Semester
The World of Teaching Advanced 1 HS Semester Credit
Prerequisite: The World of Teaching Explore

Students will continue to embark on a comprehensive exploration of the educational landscape, delving into the history and societal impact of schools while identifying the diverse roles within them.
From principals to cafeteria staff, the curriculum immerses learners in understanding the multifaceted dynamics of school environments. The first half of the course serves as a deep dive into the structure and function of schools, laying the groundwork for subsequent career-focused units. By examining potential job

roles such as counselors, teachers, and technology specialists, students gain insight into the varied responsibilities and contributions within educational institutions.
Students will also focus on preparing for careers in education, honing practical skills for entering the teaching profession. Through activities aimed at resume building, job search strategies, and navigating certification processes, learners acquire essential tools for launching their educational careers.
With an emphasis on interview techniques and connecting with schools, this course equips students with the confidence and know-how to embark on their path toward impactful roles in education. Students will emerge with a clearer understanding of the educational landscape and the steps needed to pursue their career aspirations in teaching and related fields.

Please call with questions or enrollment assistance ~ 507.389.1889

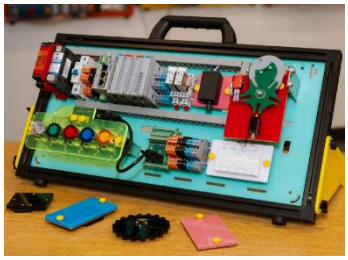
Where innovation meets precision. Preparing students to design, build, and power the technologies of tomorrow.

Junior Year

Fall Semester

Electronics in Action

1 HS Semester Credits
3 South Central College Credits



Senior Year

Fall Semester

Sensors in Action

1 HS Semester Credits
3 South Central College Credits

Spring Semester

Mechatronics in Action

1 HS Semester Credits
3 South Central College Credits

Spring Semester

Power Under Pressure

1 HS Semester Credits
3 South Central College Credits

NextGen Manufacturing & Engineering Academy Course Descriptions

Electronics in Action (MECA 1122 Electricity - Devices and Circuits I)
3 SCC Credits, 1 HS Semester Credit
This course provides an exploration of the basics in electricity and electronics. Topics include an overview of direct current, circuit laws, components, and use of test equipment. Students learn the basic technique of troubleshooting electric circuits, including measurement techniques, analysis of faults, and repair procedures. Teamwork, critical thinking, and problem solving are emphasized. Hands-on experience and practical applications are included.

Mechatronics in Action (MECA 1250 Mechatronics Systems Operations I)
3 SCC Credits, 1 HS Semester Credit
This course will provide the students with the principles of programmable logic controllers (PLC) hardware and fundamental sequence control systems. The student will gain essential knowledge necessary to create and edit basic PLC programs that will include timers, counters and special function blocks. As well as gaining an understanding of interfacing discrete input-output (I/O). The student will also perform fundamental PLC troubleshooting procedures. Technical writing skills and safety procedures will be implemented throughout the course

Sensors in Action (MECA 2110 Sensors and Control)
3 SCC Credits, 1 HS Semester Credit
This course will provide students with the principles of measurement and control systems. The student will gain an understanding of different sensor technologies used to measure and detect physical properties used in a variety of electromechanical, electrohydraulic and electro pneumatic systems. The student, through lab work, will also learn how to use and troubleshoot sensors used in open and closed loop control systems. Technical writing skills and safety procedures will be implemented throughout the course

Power Under Pressure (MECA 2120 Fluid Power I)
3 SCC Credits, 1 HS Semester Credit
This course provides the basics of fluid powered devices and systems found in modern industrial machinery and automation. Topics include proper safety procedures, basic laws of fluid mechanics, standard symbols, pumps, control valves, control assemblies, actuators, maintenance procedures, and switching and control devices. At the completion of this course, the student will be able to apply basic laws of fluid mechanics to design and specify characteristics of a pneumatic system; select and size actuators and control valves and match the pneumatic components with its American National Standards Institute (ANSI) symbol. Upon

completion of this course, the student should be able to identify long-term symptoms associated with a lack of preventive maintenance of pneumatic components while demonstrating good safety practices including lock out procedures. Technical writing skills and safety procedures will be implemented throughout the course.

South Central College

South Central Health Science Career Academy

SCSC South Central Service Cooperative

Junior Year		Senior Year	
Semester 1	*Semester 2*	*Semester 1*	*Semester 2*
Health Science Technology 2 HS Semester Credits 4 South Central College Credits	**Medical Terminology** 2 HS Semester Credit 3 South Central College Credits	**Basic Nursing** – available Semester 1 OR Sem 1 HS Semester Credit/1 credential Nursing Assistant Registry (NAR) Credential E	
		Sports Medicine Introduction 1 HS Semester Credit	**Sports Medicin Injury Preventi** 1 HS Semester
		Anatomy & Physiology Introduction 1 HS Semester Credit	**Anatomy & Phy Discovering Fo** 1 HS Semester

High STEP Health Science Academy

Most classes are available in a blended format with a partnering industry site or fully online. Please call with qu assistance ~ 507.389.1889.

Health Science Career Academy Course Descriptions

Health Science Technology (SCC -Health Care Core Foundations HC1525)
4 SCC Credits/2 HS Semester Credits Cohort, 1 HS Semester Credit Online Prerequisite: None Format: Blended or Online Fall Semester, Junior Year
This course prepares healthcare professionals to work efficiently in various healthcare settings. It focuses on developing essential workplace skills such as accountability, responsibility, and effective communication. The course also emphasizes healthcare ethics, legal issues, safety standards, and personal wellness for healthcare professionals. It is a part of the Minnesota Health Care Core Curriculum and provides a foundation for exploring careers in mental health.
Medical Terminology (SCC – Medical Terminology HC1000)

3 SCC Credits/2 HS Semester Credits Cohort, 1 HS Semester Credit Online Prerequisite: None Format: Blended or Online Spring Semester, Junior Year

Medical Terminology for Healthcare Professionals is a comprehensive course designed to provide students with a strong foundation in the language of medicine. This course will teach students the essential skills and knowledge to understand, use, and communicate medical terminology effectively in various healthcare settings. By the end of the period, students will be proficient in building, spelling, pronouncing, and analyzing medical terms. They will also gain a deep understanding of the body systems' major structures, functions, and medical specialties.

Basic Nursing

1 HS Semester Credit Prerequisite: Health Science Technology Format: Blended Fall or Spring Semester, Senior Year

This course fulfills federal and state requirements to be eligible for the state test to become an NA-R. It covers basic human needs and the health/illness continuum. The course prepares students to perform basic nursing skills safely, which is essential to function as a Nursing Assistant. Minnesota State Colleges and Universities have developed this 80-hour curriculum. Students will participate in online curriculum studies, laboratory skills, and clinical rotations to gain hands-on experience. Upon course completion, students will be qualified to take the Competency Evaluation at an approved Minnesota Technical College test site. Optional First Aid / CPR Training available.

Sports Medicine: Introduction

1 HS Semester Credit Prerequisite: Health Science Technology Format: Online Fall Semester, Senior Year

Looking for a career in sports medicine? It's a broad field that includes nutrition, healthy lifestyle, fitness, anatomy, biomechanics, and exercise. Explore popular career paths, day-to-day duties, emergency care for athletes, and legal obligations. Get started in this fascinating field today.

Sports Medicine: Injury Prevention

1 HS Semester Credit Prerequisite: Sports Medicine: Introduction Format: Online Spring Semester, Senior Year

Get ready to take your knowledge of human biomechanics to the next level with Sports Medicine 1b: Injury Prevention. You'll expand your understanding of the human body, learn how to evaluate, and prevent injuries and become an expert in keeping athletes functioning at their peak. Let's hit the field of sports medicine!

Anatomy and Physiology: Introduction

1 HS Semester Credit Prerequisite: Health Science Technology Format: Online Fall Semester, Senior Year

Learn how to understand the human body by studying anatomy and physiology. Discover the functions and diseases of skeletal, muscular, nervous, and cardiovascular systems, as well as cell structure and processes.

Anatomy and Physiology: Discovering Form and Function

1 HS Semester Credit Prerequisite: Anatomy and Physiology: Introduction Format: Online Spring Semester, Senior Year

Explore more body systems and their interrelation. Learn about lymphatic, immune, respiratory, digestive, urinary, and endocrine systems, reproductive systems, genetics, and accurate patient documentation. Understand the technology used in healthcare.

South Central Information Techr
Career Academy

Junior Year

Semester 1

Discover IT!
1 HS Semester Credits/
4 SCC Credits

Cybersecurity Foundations I
1 HS Semester Credit

Semester 2

Create a Website
1 HS Semester Credit/
3 SCC Credits

Cybersecurity Foundations II
1 HS Semester Credit

1 credential:
PCCET Credential

Cybersecurity Foundations I & II can be taken Junior or Senior Year.

Senior Year

Semester 1

Javascript Rocks!
1 HS Semester Credits/
4 SCC Credits

Semester 2

Build IT!
PSEO - SOUTH
COLLEGE
PC Hardware a
Essentials COM

1 HS Semester
Credits

1 credential
A+ Certificat

All classes are available fully online. Please call with questions or enrollment assistance. 507.389.1889.

4 SCC Credits/1 HS Semester Credit **Prerequisite: None** **Format: Online** **Fall Semester, Junior Year**

This course introduces the student to the world of information systems. Students will explore the history of computing, career opportunities in information technology, computer concepts as they apply to a business environment, basic web page development, command-line interfaces, file management principles, computer numbering systems, and database principles. Students will also receive initial exposure to computer programming and algorithms using problem analysis, pseudo-code and entry level programming languages.

Create a Website

Web for Business **COMP1140**
3 SCC Credits/1 HS Semester Credit **Prerequisite: None** **Format: Online** **Spring Semester, Junior Year**

This course approaches developing websites from a business point of view. As a result of this course, students will understand the underlining of the web technology and be able to create and publish web pages according to the World Wide Web Consortium standards. Students will utilize Hyper-Text Markup Language (HTML) and Cascading Style Sheets (CSS) to build, and Search Engine Optimization (SEO) methods to promote a website. No previous experience with HTML or programming is required.

Cybersecurity Foundations I

1 HS Semester Credits **Prerequisite: None** **Format: Online** **Fall Semester, Junior or Senior Year**

Cybersecurity Foundations introduces students to the cybersecurity and networking concepts they must understand to be able to recognize and mitigate attacks against networks and mission-critical infrastructure. Students will learn: · Cybersecurity ethics · Cybersecurity careers · The nature and scope of today's cybersecurity challenges. · Detailed information about next-generation cybersecurity approaches. · Knowledge of interconnected technologies. · Security methodologies, technologies, and concepts used to implement a secure network environment. Examine threat vectors, vulnerabilities, and risks. · Strategies for network defense. · The ability to plan, design, implement, and troubleshoot network infrastructure environments.

Cybersecurity Foundations II

1 HS Semester Credits **Prerequisite: Cyber Foundations I** **Format: Online** **Spring Semester, Junior or Senior Year**

Cybersecurity Foundations II students will evaluate cybersecurity principles and demonstrate how to secure a network computing environment through the application of security controls. Students will apply strategies for network defense and the concepts of next-generation cybersecurity by installing, configuring, and managing firewalls for the defense of enterprise network architecture. Additional topics students will explore are the basics of personal security awareness, cryptography, digital forensics, network attacks and network defense. Upon completion of the Cybersecurity Foundations I & II courses, students will be prepared for the Palo Alto Networks Certified Cybersecurity Entry-level Technician (PCCET) exam.

Javascript Rocks!

Programming Fundamentals **COMP1130**

4 SCC Credits/1 HS Semester Credit **Prerequisite: COMP1120** **Format: Online** **Fall Semester, Senior Year**

Programming Fundamentals is designed to be a person's first exposure to the world of computer programming. This course covers how to design and implement a computer program, writing a program that will make different types of decisions, how to solve problems using computer programs that remember things, make decisions, and perform repetitive tasks. The course uses both Alice and JavaScript to help the student meet these objectives. Alice is a 3-D programming environment from Carnegie Mellon University designed to teach programming concepts. It is an enjoyable and easy-to-use programming environment that assists the student in making 3-D, animated movies. JavaScript is a popular language used by web browsers to get input from the user. JavaScript teaches client-side scripting. This course is part of the Web Programming Certificate and the AAS Information Systems programming degree at South Central College. You will need to have a basic understanding of (X)HTML for the second half of this course which uses JavaScript. A minimum typing speed of 20-35 wpm is recommended.

Build IT!

PC Hardware and Software Essentials **COMP1200**

4 SCC Credits/1 HS Semester Credit **Prerequisite: None** **Format: Online** **Spring Semester, Senior Year**

PC Hardware and Software Essentials provides an in-depth survey of computer hardware and operating systems. This course is designed for students who want to pursue careers in IT and students who want to gain practical knowledge of how personal computing devices (including tablets and smartphones) are managed and maintained. It covers a broad range of topics, which include security, networking, troubleshooting, client-side virtualization, and the responsibilities of an IT professional. Through hands-on activities and labs, students learn how to assemble and configure a computer, install operating systems and software, diagnose hardware and software problems, and perform necessary repairs. Emphasis is placed on practical experience to help students develop fundamental computer skills. The course helps students prepare for CompTIA's A+ certification.

Four Year Plan

Ninth Grade

English 9
Civics
Geometry
Earth Science 9
Physical Education

_____
_____

English 9
Human Geography
Geometry
Earth Science 9
Computer Applications I

_____
_____

Tenth Grade

English 10
American History
Biology
Algebra I or II
Health

_____
_____

English 10
American History
Biology
Algebra I or II
Physical Education

_____
_____

Eleventh Grade

English Choice
World History or AP Euro History
Algebra II or College Alg./College Trig.
Chemistry or Physics (11th or 12th grade)

_____
_____
_____
_____

English Choice
Money Mgmt./Careers
Algebra II or College Alg./College Trig
Chemistry or Physics (11th or 12th grade)

_____
_____
_____
_____

Twelfth Grade

English Choice
American Government
Chemistry or Physics (11th or 12th grade)

_____
_____
_____
_____
_____

English Choice
Economics or Ag Econ.
Chemistry or Physics (11th or 12th grade)

_____
_____
_____
_____
_____

(Gr. 9-12) Two credits of the arts: _____ _____
(Choose from band, choir, guitar, all art classes, woods I and II, metals and plant science I and II)

Elective Class List For 2026-2027

Course Name & Number	Grades	Page
Myths and Monsters	11-12	5
Great Authors	11-12	5
Great Authors II	11-12	5
Creative Writing	11-12	5
Theatre & Drama Basics	11-12	5
Non-Fiction Reading	11-12	6
Everyday Communication	11-12	6
Exploration Writing	11-12	6
AP English	11-12	6
Psychology	11-12	7
Sociology	11-12	7
The Holocaust	11-12	7
AP European History	11-12	7
Pop Culture	11-12	8
*College Algebra	11-12	8
*College Trigonometry	11-12	9
*Calculus	12	9
Human Anatomy	11-12	9
Chemistry	11-12	10
Physics	11-12	10
Agriculture in Physics	11-12	10
Forensic Science	11-12	10
Health Science Academy	11-12	10
Computer Applications II	10-12	11
Intro. to Business	9-12	12
Accounting I	11-12	12
Hospitality & Tourism	9-12	12
Marketing Media	10-12	13
Graphic Arts	9-12	13
Ceramics I	9-12	13
Ceramics II	9-12	13
Photography	9-12	13
Drawing/Painting	9-12	13
Drawing/Painting II	9-12	13
Digital Media	11-12	14
Spanish I	9-12	14
Spanish II	10-12	14
Spanish III	11-12	14

Course Name & Number	Grades	Page
Woods I	9-12	15
Woods II	9-12	15
Construction Trades	9-12	15
Concert Band	9-12	15
Concert Choir	9-12	16
Guitar	9-12	16
Foods I	9-12	16
**ProStart I	9-12	16
**ProStart II	10-12	17
Prostart III	11-12	17
International Cuisine	9-12	17
Housing & Interior Design	9-12	17
**Child/Human Development	9-12	18
Early Childhood Careers	9-12	18
Interpersonal Relationships	9-12	18
Life SMARTS	9-12	19
Garden and Landscape	9-12	19
**Ag Mechanics	9-12	19
**Ag Power and Electricity	9-12	19
**Welding I	9-12	19
**Welding II	9-12	19
Metals	10-12	20
**Plant Science I	9-12	20
Plant Science II	9-12	20
**Natural Resource Science	9-12	20
**Animal Science	9-12	20
Ag Economics	11-12	20
Physics in Agriculture	11-12	21
Team Sports	9-12	21
Leisure Activities	9-12	21
Weights & Fitness	9-12	21
Aerobic Fitness	9-12	21
Coaching & Reffing	9-12	21
Speed and Strength	9-12	22
Team Games	9-12	22
Academy Courses	9-12	22-29
REACH	9-12	22
Work Experience	12	22

*College Now Class

**Articulated Class

Registration Form

Name_____ Present Grade __8_
(Last, First)

YOU MUST HAVE CLASSES LISTED IN LINES 6 & 7 AND ALTERNATE CHOICES

Class	Class
1. English 9	1. English 9
2. Civics	2. Human Geography
3. Geometry	3. Geometry
4. Earth Science 9	4. Earth Science 9
5. Computer Apps I	5. Phy. Ed:
6._____	6._____
7._____	7._____

Alternate Choice 1. _____

Alternate Choice 2. _____

Alternate Phy. Ed Choice: _____

Parent/Guardian Signature_____

Student Signature_____

Date due in Science class: _____

(The registration manual is available to view or print on the Counseling office page of the NRHEG secondary school website.)

Green

Registration Form

Name_____ Present Grade 9
(Last, First)

YOU MUST HAVE CLASSES LISTED IN LINES 6 & 7 AND ALTERNATE CHOICES

Class	Class
1. English 10	1. English 10
2. American History	2. American History

3. Circle one (if you took Alg. I in 8th grade you will take Alg. II): Algebra I or Algebra II

4. Biology	4. Biology
5. Health	5. Phy. Ed:
6._____	6._____
7._____	7._____

Alternate Choice 1. _____

Alternate Choice 2. _____

Alternate Phy Ed Choice: _____

Parent/Guardian Signature_____

Student Signature_____

Date Due in Earth Science: _____

(The registration manual is available to view or print on the Counseling office page of the NRHEG secondary school website.)

Yellow

Registration Form

Name_____ Present Grade 10
(Last, First)

1. English: Students must complete at least one reading oriented and one writing oriented course among the four semesters of Jr./Sr. English that are required for graduation. Please indicate your top two English choices for next year, and your top two alternate choices.

Preferred English Choices	**Alternate** English Choices
_____	_____
_____	_____
Class	Class

2. Circle One Choice: World History or AP World Hist. 2. Money Mgmt. and Careers

3. Circle One Choice: Algebra II or College Algebra/Trigonometry

Circle one: Chemistry or Physics or complete these courses in 12th grade

4. _____	4. _____
5._____	5. _____
6._____	6._____
7._____	7._____

Alternate Choice 1. _____

Alternate Choice 2. _____

Parent/Guardian Signature_____

Student Signature_____

Date Due in American History: _____

(The registration manual is available to view or print on the Counseling office page of the NRHEG secondary school website.)

Blue

Registration Form

Name_____ Present Grade 11
(Last, First)

1. English: Students must complete at least one reading oriented and one writing oriented course among the four semesters of Jr./Sr. English that are required for graduation. Please indicate your top two English choices for next year, and your top two alternate choices.

Preferred English Choices

_____

_____

Alternate English Choices

_____

_____

Class

2. American Government

3. _____

4. _____

5._____

6._____

7._____

Class

2. Circle one: Economics *or* Ag Economics

3. _____

4. _____

5. _____

6._____

7._____

Alternate Choice 1. _____

Alternate Choice 2. _____

Parent/Guardian Signature_____

Student Signature_____

Date Due to Liz: _____

(The registration manual is available to view or print on the Counseling office page of the NRHEG secondary school website.)

White