

NEW HAMPTON HIGH SCHOOL

2023-2024 COURSE HANDBOOK

Nondiscrimination Policy of the New Hampton Community School District

It is the policy of the New Hampton Community School District not to illegally discriminate in its education program, activities, or employment policies or procedures as required by Title VI and VII of the Civil Rights Act of 1964, Title IX of the Educational Amendments of 1972, Section 504 of the Federal Rehabilitation Act of 1973, and the Americans with Disabilities Act of 1990. Areas of nondiscrimination include, but are not limited to: age, color, creed, national origin, race, religion, marital status, sex, sexual orientation, gender identity, physical attributes, physical or mental ability or disability, ancestry, political party preference, political belief, socioeconomic status or familial status.

There is a grievance procedure for processing complaints of discrimination. Inquiries regarding NHCS D compliance with pertinent federal law should be directed to the High School Principal: Matt Manson, 710 W. Main St., New Hampton, Iowa 50659, (641)-394-2144, m_manson@new-hampton.k12.ia.us

INTRODUCTION

The purpose of this course handbook is to provide students and parents with the information necessary to plan an appropriate educational program. The handbook contains information about graduation requirements, grade-level registration information, suggestions for program planning, and descriptions of the courses offered at the high school. The registration process is extremely important. Decisions about course selections may have a dramatic effect on a student's future. Only a limited amount of time is available in high school. Students and parents should thoughtfully plan a student's program of study in order to use the time available in the most effective way. If possible, students and parents should project a program of study for all four years of schooling before deciding the year-to-year plan.

CONSIDERATIONS

1. Consider enrollment and graduation requirements. Make sure you enroll in the required courses.
2. Consider your plans for the future after high school. If there is a chance you will attend college, make sure you take classes which will help you prepare for that choice (beginning with the courses you select for your freshman year of high school.) Generally, four-year colleges expect entering freshmen to have four years of Language Arts and three years of Science, Mathematics, and Social Studies classes. Seek classes in high school which will require you to think sequentially and write effectively. If there is very little chance you will attend a four-year

college, many of the “college-prep” courses are still appropriate. National and state reports recommend that all students, even those intending to enter the workforce directly from high school, have a solid preparation in the basic competencies of reading, writing, communication, mathematics, science, reasoning, economics, and computer literacy, have the ability to engage in meaningful interpersonal relationships, cope with the requirements concerning attendance and punctuality, and willingly assume the responsibility of good citizenship for basic employment. (Source: First in the Nation in Education report, p. 21)

3. Consider your abilities and interests.
4. Consult with your parents, teachers, and school counselor.
5. Remember time is the most precious resource you have to spend. Do not spend valuable time following a program of study which is not consistent with your personal goals and values.

ENROLLMENT AND GRADUATION REQUIREMENTS

1. Enrollment Requirements

Students are expected to enroll in 6 classes a semester, not counting PE or Religion. The following classes help to satisfy the enrollment requirement:

- a. All Language Arts, Mathematics, Science, Social Studies, Agriculture Education, Family & Consumer Science, Art, Spanish, Special Education, Business Education, Industrial Arts, Vocal Music, Instrumental Music and courses through Iowa Big North.
- b. Physical Education is required each semester.

2. Graduation Requirements

Forty-eight (48) credits are required in order to graduate from New Hampton High School. Thirty-one (31) credits of the forty-eight credits are specified (required):

Language Arts - - - - - 8 credits

Including:

English 9 (2 credits)

English 10 (2 credits)

Junior Literature and Writing (2 credits) or IBN Research and Tech

Writing/IBN Analysis of Literature and two credits from the following electives:

English 12 Literature (1 credit), English 12 Writing (1 credit), Novels (1 credit), and Media Literacy (1 credit). Students may also take Composition I and II through NICC if they meet qualifying placement scores.

Science - - - - -6 credits

Including:

Physical Science (2 credits)

Biology (2 credits)

Chemistry or Environmental Science (2 credits)

If a student wishes to take additional science classes, they may choose from the following electives (2 credits for the full year) - Chemistry, Environmental Science, Physics, Anatomy and Physiology w/Lab I and II (college), Advanced Chemistry

Mathematics - - - - -6 credits

Three of the following subjects:

Transitional Mathematics (2 credits)

Algebra (2 credits)

Geometry (2 credits)

Advanced Algebra (2 credits)

Pre-Calculus (2 credits)

Calculus (1 credit)

Statistics (1 credit)

Social Studies - - - - - 6 credits

Including:

Civics (1 credit)

US History (2 credits)

Economics (1 credit)

US Government (1 credit)

And one credit from the following electives: (1 credit) - World Geography, World History, Contemporary Affairs, or Particular Topics in US History

Physical Education (½ credit per semester) - - - - - 4 credits

The Iowa law states that students who are physically able are required to participate in physical education for each semester in which they are enrolled in school. The law does provide several narrow exceptions to and excusals from this requirement. Below are the options for PE exemption at New Hampton High School. All requests will be reviewed by administration before being approved on a case by case basis. A completed form for possible exemption needs to be submitted at the time of class registration.

***All freshmen and sophomores will be required to take PE regardless of these exemptions; the exemption applies to juniors and seniors only*

If a student who wishes to have a PE exemption, they will select the option that applies to them below:

❑ **Full Course Load**

If students have a full course load (8 classes), and PE cannot fit into their schedule, they may have 1 semester only exempt (Juniors and Seniors)

❑ **Iowa Big North**

Students may receive a PE exemption if they have 6 regular classes in their schedule and are also taking Iowa Big North (Juniors and Seniors)

❑ **MOC/Work Release**

Seniors participating in MOC and work release may have both semesters of PE excused (Seniors only)

Electives to Reach Graduation Requirements:

Seventeen credits (17) of the forth-eight credits are from elective courses. ***Future Prep is required for all students during their junior year.*

The high school principal may allow alternative education programming in place of the regular requirements in order to more appropriately meet the educational needs of an individual student after consultation with the Departmental staff and the student's parents.

A maximum of four (4) credits may be earned at an accredited institution to be applied toward graduation by a student attending New Hampton High School. Students transferring from another school are not included in this restriction.

College Credit for High School

Northeast Iowa Community College (NICC) and New Hampton High School (NHHS) have an articulation agreement that enables students who are enrolled in high school to receive college credit for certain classes taken.

Students earn both high school and college credit for successfully completing college-level coursework. These post-secondary credits are transferable to other colleges and universities depending on the degree requirements at that institution. High school students must meet the requirements and guidelines for the NICC class for which they are registering including a qualifying GPA. Students must meet the academic requirements of the school district along with minimum proficiency cut scores in reading, math, and science based on their Iowa Assessments. If a student is not proficient, they can take the ALEKs Math or ACCUPLACER Reading or Writing placement tests to potentially be enrolled in a class that way based on NICC guides. If not proficient in science and wanting to take a science class, students will need to meet with administration and review

previous science grades to determine eligibility. It is recommended that college courses not be taken until students can show they have a good work ethic and can learn independently. College courses are permanent record and will affect future scholarships/financial aid/enrollment into college programs. Therefore, students need to be ready and committed as when they are a college student, the high school will not be able to monitor progress and offer assistance.

There may be a cost of textbooks, materials or supplies to parents or students. Check with your school counselor for more information.

There are two types of classes that fall under the 'College Credit in High School' umbrella. These classes include:

- Concurrent classes
 - An NICC class taught at the high school during the regular school day by a teacher at the high school, or an NICC instructor that comes to the building to teach a course or teaches it via the ICN. The students would receive dual credit for these courses, meaning, they would receive high school credit as well as college credit.
 - Textbooks will be provided for students
- Placement in College Credit (PICC) classes
 - These are classes that are not offered at the high school but are online instead. These types of classes are taught over the internet and taught by either an NICC or NHHS instructor. The student will again receive credit at the high school and credit through the college.
 - Students are responsible for purchasing textbooks

Information for High School Students Taking NICC College Credit Classes

- Junior and Senior students are encouraged to look at taking dual credit college classes
- As a general rule, underclassman students identified as ELP and are proficient in English, Math, and Science on the ISASP test are able to enroll in dual credit classes
 - We will not allow registration without principal and counselor review
 - Grades are a matter of permanent record and students want to be ready for the increased rigor. Freshman are just transitioning to high school and sophomores second semester could be ready for some humanities courses if they are applicable to post secondary plans.
- Class performance in high school, attendance, and work ethic will be evaluated on a case by case basis to make sure students are ready for post secondary work
- Before signing up for a class, please make sure it does not conflict with your schedule. Check with your coaches, activity directors, employers, etc.

If you sign up for a class and want to drop it, please do so immediately by contacting Mrs. Maas

- You are responsible for documenting your start date and time and are expected to be in attendance to receive your books for any face-to-face or Zoom classes.
- Books for online classes need to be purchased BY THE STUDENT. Books for classes that meet in the high school building are property of the school district and need to be returned when the class is complete or if the student drops the course.
- If you are a new student to NICC, you will receive info on how to log into NICC's computer system to access your information from the internet. This will give you access to class schedules and grades, and other course information. Keep the sheet/email NICC sends you for use in the future, as it will only be mailed out once.
- Before signing up for an online course, please check out NICC's website to see if an online class is the right choice for you. To see what is available, go to www.nicc.edu/courses, then adjust the drop down menu for the term you want, then you can search the type of course you want; just be sure that the location is set to "online".

Academic Dishonesty/Integrity

Any student that is dropped from a college course due to academic dishonesty, plagiarism, or other violations with the college will receive an F on your high school transcript. This will affect class GPA and the State "F" Rule will apply causing students to have to sit out of extra curricular activities for 30 days from the first date of competition at the conclusion of the grading period. In addition, this student will not be allowed to take further dual credit classes for 12 months.

- Some principal discretion will be considered for dual credit courses taught by local instructors and connected to graduation requirements.

Withdrawing from a College Class

A student who withdraws from a dual credit class without extenuating circumstances three weeks after the class has started will not be allowed to take another dual credit class for the next semester

- Some principal discretion will be considered for dual credit courses taught by local instructors and connected to graduation requirements.

If a student receives an F in a college class, they will be academically ineligible for 30 days. The student will need to meet with the school counselor and principal before enrolling in another class. The F will not only go on the students' high school transcript but on their permanent college transcript as well.

Advanced Placement Courses to be Offered at New Hampton High School

New Hampton High School will be offering Advanced Placement (AP) courses through the Iowa Online Advanced Placement Academy (IOAPA). Enrollment for fall classes begins in April and ends the beginning of August, and enrollment for spring classes is in the month of November. Class openings are limited through IOAPA and assigned on a first come first serve basis. Examples of classes offered are:

- AP Biology
- AP Calculus AB
- AP Chemistry
- AP Computer Science A (JAVA)
- AP English Language and Composition
- AP English Literature and Composition
- AP Environmental Science
- AP Macroeconomics (1 Semester)
- AP Microeconomics (1 Semester)
- AP Psychology (1 Semester)
- AP Spanish
- AP Statistics
- AP US Government (1 Semester)
- AP US History
- AP Pre-Calculus

Most courses are full-year courses, beginning in the fall. All College Board Advanced Placement exams are administered in May.

If you would like to see a full description of the courses, go to <https://belinblank.education.uiowa.edu/students/ioapa/>. If a student is interested, see Mr. Monteith for further information and/or to get registered.

Empowerment

An Empowerment program has been created in order to help students succeed in coursework in high school. Students who are not proficient or fail a class will be placed in an Empowerment study hall where a teacher will help students with organization, reteaching, and building skills for success. Each semester, the previous semester's grades will be evaluated to determine if a student is showing success in classes (No D's or F's) on an individual basis with the teacher and administration. If a student is struggling with a course or attendance, Empowerment can be added during the semester by the Student Assistance Team or Administration to help get students back on track for earning credits toward graduation.

Starting in 2009, the three state colleges in Iowa (ISU, University of Iowa, and UNI) have used the Regent Admissions Index (RAI) to determine freshman admission. The calculation is as follows:

Class Rank % x 1
ACT Score x 2
of HS Core Courses x 5
Cumulative GPA x 20

The established break line is 245. A "web calculator" can be used as an informal way for a student to calculate his/her RAI. The calculator is available at the following site: <http://www2.state.ia/regents.rai>. The individual review status will still be intact.

The following are the predetermined Core Courses offered at New Hampton High School (* indicates required courses):

4 years of English

*English 9
*English 10
*Junior Literature and Writing
English 12 Literature and English 12 Writing
Media Literacy
Novels

3 years of Mathematics

Transitional Math
Algebra
Geometry
Advanced Algebra
Pre Calculus
Calculus
Statistics

3 years of Science

*Physical Science
*Biology
*Chemistry or Environmental Science
Physics
Advanced Chemistry
Anatomy and Physiology w/lab

3 years of Social Studies

*Civics

*US History

*US Government

*Economics

*At least one of the following: Contemporary Affairs, World History, World Geography, or Particular Topics in U.S. History

CHANGING CLASSES AT THE BEGINNING OF THE SEMESTER

Students will have three days to make changes to their schedules. On day four, classes are locked in for the semester and cannot be changed. Classes are picked by students and requests to be with certain teachers and friends will not be possible due to the need of balancing classes.

AGRICULTURE EDUCATION

Intro to Ag (AFNR - Agriculture, Food, and Natural Resources)

Elective, two credits

Prerequisite: None

This course lasts all year

Intro to Ag is the first course in the CASE (Curriculum for Agricultural Science Education) sequence of courses, which will introduce students to leadership, science, plants, animals, natural resources, and agricultural mechanics using the hands on approach of activities, projects, and prigate their personal interests and careers in agri-science. While surveying the opportunities available in agriculture and natural resources, students will learn to solve problems, conduct research, analyze data, work in teams, and take responsibility for their work, actions, and learning.

Agronomy

Elective, one credit

Prerequisite: Intro to Ag

This course is offered 1st semester

Principles of Agricultural Science - Plan is a foundation-level course that will teach students about the form and function of plant systems. Students are immersed in inquiry-based exercises filled with activities, projects, and problems to teach them plant concepts through laboratory and practical experiences. Student experiences will include the study of plant anatomy and physiology, classification, and the fundamentals of production and harvesting. Students will learn how to apply scientific knowledge and skills to use plants effectively for agricultural and horticultural production. Students will discover the value of plant production and its impact on the individual, the local, and the global economy. Lessons throughout the course will provide an overview o the field of

agricultural science with a foundation in plant science. These lessons include working in teams and exploring hands-on projects. Students will work on major projects and problems similar to those that plant science specialists, such as horticulturalists, agronomists, greenhouse and nursery managers, and plant research specialists, face in their respective careers. Teachers are provided detailed professional development to facilitate instruction. Every lesson is aligned with national standards for agriculture, science, mathematics, and English language arts. Areas of study include: soils, anatomy and physiology, taxonomy, growing development, reproduction, pest and disease management, and crop production and marketing.

Animal Science

Elective, 1 credit

Prerequisite: Intro to Ag (recommended to be taken the year right after Intro to Ag)

This course is offered 1st semester

Spend the semester investigating how animals and humans are dependent upon each other. Investigate how humans domesticated animals. Evaluate the management practices used by humans to keep animals safe and healthy. Design an animal facility for your favorite species of animal and build a model. Develop an animal care plan and perform routine healthcare practices. Brainstorm a business plan related to animals. Throughout the year, you will complete all of this and much more through the ASA course. In addition to animal science, develop the necessary technical communication skills and learn the common mathematics functions used in the animal industry and in taking care of personal companion animals. Investigate the fascinating and multifaceted animal industry and consider what opportunities lie there for you!

Horticulture I

Elective, one credit

Prerequisite: Intro to Ag

This course is offered 1st semester

Introductory horticulture principles will be taught in this course. Students will learn the basics of plant science including parts of the plant, environmental requirements for plant growth, and career exploration in horticulture. Activities will include classroom instruction, discussion, and laboratory work.

Principles of Horticulture

Elective, one credit (this is a college credit course, so the student will also gain college credit through Hawkeye Community College)

Prerequisite: Intro to Ag

This course is offered 2nd semester

This course will provide students with greenhouse management principles. Students will learn about the greenhouse structure and how it operates. Biological and physical concepts on greenhouse operations will be covered including heating, cooling, watering, and humidity control. Students will be involved in the production and marketing of plants. Students will also learn how to cultivate houseplants, ornamental plants, trees, shrubs, lawn care, and fruit and vegetable production.

Agricultural Mechanics

Elective, one credit

Prerequisite: Intro to Ag (there are a very limited number of seats in this course, seniority on down)

This course is offered 2nd semester

Students will learn and apply skills in the areas of small gas engines, shop equipment, supplies, and safety, basics of engine operations, engine systems, engine service and applications. Students will complete shop projects on small gas engines and will participate in the NE District FFA Ag Mechanics CDE.

Precision Farming Systems

Elective, one credit

Prerequisite: Intro to Ag

This course is offered 1st semester

Fundamental processes of Global Positioning Systems (GPS) with emphasis on its application to agriculture will be covered. General technical aspects of the GPS satellites, differential correction, and hardware will be covered. The specific application of this technology in agriculture for mapping, navigation, variable rate technology (VRT), and data collection will be discussed and demonstrated. Topics will include yield monitoring and mapping, soil sampling and analysis, remote sensing, computers and geographical information systems, variable rate technologies and issues related to site specific agriculture. Students will also work with the Mule to become proficient in auto-steer and mapping.

Particular Topics in Agriculture

Elective, one credit

Prerequisite: Intro to Ag

This course is offered 1st or 2nd semester.

Particular Topics will challenge students to develop their own project for development. We encourage work in the Ag/IT Building. Projects may include designing and fabricating out of metal or wood, working with the plasma cutting table, Iowa Youth Institute research, horticultural research, etc. Certificates may be earned in the following areas: Food and Safety Science, Meat Evaluation, Principles of Floral Design, Ecology Conservation and Management, Veterinary

Medical Appli., Principles of Livestock Selection and Evaluation, or Equine Management and Evaluation. This new future relies upon connecting diversity of innovational approach, solutions orientation, and cutting-edge technology with this student group, which in turn inspires, progresses, and awakens new thoughts, problem-solving capabilities, and a world of opportunities.

Principles of Agronomy

Elective, one credit (this is a college course, so students will also receive credit through NICC)

Introductory principles of plant-soil-climate relationships in crop production. The course is designed after a similar course at Iowa State University and uses many of the same materials. Major units of instruction include: Crop Plant Anatomy, Crop Plant Classification and Identification, Crop Physiology, Climate, Soils, Soil Water, Tillage and Seeding, Plant Breeding, Seed and Grain Quality, Weeds, Insects, Crop Diseases, and Crop Harvesting and Storage.

Survey of the Animal Industry

Elective, one credit (this is a college course, so students will also receive credit through NICC)

The course will explore breeds, life cycle, management practices, marketing and care of farm animals. Species included will be food animal production of beef and dairy cattle, sheep, goats, swine, and poultry, as well as the companion animals of horses, dogs, cats, and others. Major units of instruction include: Importance and history of the livestock industry, animal breeding and reproduction, nutrition and feeding, animal health, life cycle of food and companion animals, marketing of animal products and issues in the animal industry.

Agriculture Internships (AI)

Elective, TBD 1-3 credits per semester

Prerequisite: Intro to Ag and 4 additional semesters of Ag Education

This course is offered 1st and/or 2nd semester

Agriculture Internship is developed to guide Ag Ed students as they search for career options in the communities surrounding New Hampton. They will develop relationships with employers and learn skills that will lead to employment or postsecondary education. Students will be required to meet weekly with the instructor and complete a log sheet.

ART

Art I

Elective, 1 credit

Prerequisite: None

Offered 1st or 2nd semester

Fundamentals of Art is a foundations art course that gives students a variety of hands on studio experiences with a focus on project based learning. Students will work with a variety of media including but not limited to: drawing, sculpture, clay, digital art, color theory and art appreciation. Visual elements, vocabulary, writing, processes, media and discussion will be emphasized. There are very few tests in Fundamentals of Art, however, all projects are expected to be completed to the best of the ability of the student. Students must satisfactorily pass this class to be able to move on to any other art classes.

Printmaking

Elective, 1 credit

Prerequisite: Successful completion of Art I

Offered 1st semester

This course will introduce students to Printmaking as a fine art form. Students will create using a variety of printmaking media and will study the historical and contemporary uses of the media. Printmaking is a graded course where students are evaluated on work habits, creativity and overall effort. This course will go in depth with skills and basic strategies with these materials. Students will have the opportunity, and are encouraged to find areas of Printmaking that are interesting to them, and to also try other materials that they may have little experience.

Photography

Elective, 1 credit

Prerequisite: Successful completion of Art I

Offered 1st semester

This course will introduce students to Digital Art as a Fine Art form. Students will create using a variety of Digital Art media and techniques and will study the historical and contemporary uses of the media. Digital Art is a graded course where students are evaluated on work habits, creativity, and overall effort. This course will go in depth with skills and basic strategies with these materials. Students will have the opportunity, and are encouraged, to find areas of Digital Art that are interesting to them, and to also try other materials that they may have little experience.

Jewelry

Elective, 1 credit

Prerequisite: Successful completion of Art I

Offered 2nd semester

This course will introduce students to Jewelry as a Fine Art form. Students will create using a variety of Jewelry media and will study the historical and contemporary uses of the media. Jewelry is a graded course where students are

evaluated on work habits, creativity, and overall effort. This course will go in depth with skills and basic strategies with these materials. Students will have the opportunity, and are encouraged, to find areas of jewelry that are interesting to them, and to also try other materials that they may have little experience.

Clay Design

Elective, 1 credit

Prerequisite: Successful completion of Art I

Offered 1st or 2nd semester

This course will introduce students to Ceramics/Clay Design as a Fine Art form. Students will create using a variety of Ceramics media and techniques and will study the historical and contemporary uses of the media. Clay Design is a graded course where students are evaluated on work habits, creativity, and overall effort. This course will go in depth with skills and basic areas of Ceramics that are interesting to them, and to also try other materials that they may have little experience.

Drawing

Elective, 1 credit

Prerequisite: Successful completion of Art I

Offered 2nd semester

This course will introduce students to Drawing as a fine art form. Students will create using a variety of drawing media and will study the historical and contemporary uses of the media. Drawing is a graded course where students are evaluated on work habits, creativity, and overall effort. This course will go in depth with skills and basic strategies with these materials. Students will have the opportunity, and are encouraged, to find areas of Drawing that are interesting to them, and to also try other materials that they may have little experience.

Sculpture

Elective, 1 credit

Prerequisite: Successful completion of Art I

Offered 2nd semester

This course will introduce students to Sculpture as a fine art form. Students will create using a variety of Sculpture media and will study the historical and contemporary uses of the media. Sculpture is a graded course where students are evaluated on work habits, creativity, and overall effort. This course will go in depth with skills and basic strategies with these materials. Students will have the opportunity, and are encouraged, to find areas of Sculpture that are interesting to them, and to also try other materials that they may have little experience.

Advanced Art

Elective, 1 credit

Prerequisite: Successful completion of Art I and one studio course

Offered 2nd semester

This course will introduce students to a variety of media, and will allow students to design their own projects. Students will create using a variety of media, techniques, and content of their own choice. Students must have successfully completed a studio course of any type beyond Fundamentals (Fundamentals and Drawing, for example) and be very independent. Materials beyond the availability of the Art classroom may need to be purchased by the student. Students will create proposals of their projects and be held accountable by those contracted proposals.

Painting

Elective, 1 credit

Prerequisite: Successful completion of Art I

Offered 2nd semester

This course will introduce students to Painting as a Fine Art form. Students will create using a variety of Painting media and techniques and will study the historical and contemporary uses of the media. Painting is a graded course where students are evaluated on work habits, creativity, and overall effort. This course will go in depth with skills and basic strategies with these materials. Students will have the opportunity, and are encouraged, to find areas of Painting that are interesting to them, and to also try other materials that they may have little experience.

Advanced Drawing

Prerequisite Art 1, Drawing

This course will continue Drawing as a Fine Art form. This class builds on the techniques, materials and skills learned in Drawing. Students will create using a variety of Drawing media and will study the historical and contemporary uses of the media. Advanced Drawing is a graded course where students are evaluated on work habits, creativity, overall effort, and independent thinking. This course will encourage students to refine and expand their skills while also developing their own artistic styles. Students will study a major artist, art movement, or style.

Advanced Sculpture

Prerequisite Art 1, Sculpture

This course will continue Sculpture as a Fine Art form. This class builds on the techniques, materials and skills learned in Sculpture. Students will create using a variety of Sculpture media and will study the historical and contemporary uses of the media. Advanced Sculpture is a graded course where students are evaluated on work habits, creativity, overall effort, and independent thinking. This course

will encourage students to refine and expand their skills while also developing their own artistic styles. Students will study a major artist, art movement, or style.

Advanced Painting

Prerequisite Art 1, Painting

This course will continue Painting as a Fine Art form. This class builds on the techniques, materials and skills learned in Painting. Students will create using a variety of Painting media and will study the historical and contemporary uses of the media. Advanced Painting is a graded course where students are evaluated on work habits, creativity, overall effort, and independent thinking. This course will encourage students to refine and expand their skills while also developing their own artistic styles. Students will study a major artist, art movement, or style.

Advanced Jewelry

Prerequisite Art 1, Jewelry

This course will continue Jewelry as a Fine Art form. This class builds on the techniques, materials and skills learned in Jewelry. Students will create using a variety of Jewelry media and will study the historical and contemporary uses of the media. Advanced Jewelry is a graded course where students are evaluated on work habits, creativity, overall effort, and independent thinking. This course will encourage students to refine and expand their skills while also developing their own artistic styles. Students will study a major artist, art movement, or style.

Advanced Photography

Prerequisite Art 1, Photography

This course will continue Photography as a Fine Art form. This class builds on the techniques, materials and skills learned in Photography. Students will create using a variety of Photography media and will study the historical and contemporary uses of the media. Advanced Photography is a graded course where students are evaluated on work habits, creativity, overall effort, and independent thinking. This course will encourage students to refine and expand their skills while also developing their own artistic styles. Students will study a major artist, art movement, or style.

Independent Art: Comprehensive Media

Prerequisite: Art 1, junior and/or senior

This course will enable students to explore or expand their knowledge of one or several art forms (e.g., drawing, painting, two- and three-dimensional design, and sculpture) and to create individual works of art. This course is a graded course where students are evaluated on work habits, creativity, overall effort, and independent thinking.

This course will encourage students to refine and expand their skills while also developing their own artistic styles. Students will study a major artist, art movement, or style.

Independent Art: Digital Art

Prerequisite: Art 1, junior and/or senior

This course will enable students to explore or expand their knowledge of one or several digital art forms (e.g., digital drawing, digital painting, design, videography, and sound) to create individual works of art. This course will emphasize observations, interpretation of the visual environment, visual communication, imagination, and symbolism. This course is a graded course where students are evaluated on work habits, creativity, overall effort, and independent thinking.

This course will encourage students to refine and expand their skills while also developing their own artistic styles. Students will study a major artist, art movement, or style.

Independent Art: Art Portfolio

Prerequisite: Art 1, junior and/or senior

Art Portfolio courses offer students the opportunity to create a professional body of work that clearly demonstrates mastery of technical skills and increased conceptual thinking and reflects their personal interests. These courses may include individual critiques and planned group activities for students to display their work publicly.

BUSINESS EDUCATION

Exploratory Business

Elective, 1 credit

Prerequisite: None

Offered 1st or 2nd semester

Exploratory Business introduces students to the world of business. It serves as an orientation for business courses in keyboarding, accounting, marketing, human relations and computer business applications. Each chapter includes discussion, small group activities, note-taking, and chapter exams. Workplace qualities such as attitude, communication skills, responsibility, and human relations are emphasized. Evaluation is based on a point system.

Accounting I

Elective, 2 credits

Prerequisite: Successful completion of Exploratory Business

This course runs all year

Accounting is the financial record-keeping for business and personal use. Accounting exists because it is important to show details of business transactions and provide a basis for managerial decision-making. Even though accounting is referred to as the language of business, almost all people use knowledge of accounting in personal financial activities. Understanding the accounting cycle is the basis of the first year course. Accounting starts with a simple accounting cycle and proceeds to the more complex systems. Students will need to read assignments, do daily problems, and complete chapter exams. Evaluation is based on a point system.

Accounting II

Elective, 2 credits

Prerequisite: must have taken and passed Accounting I

This course lasts all year

Accounting II is designed for students who are interested in expanding their accounting skills. Many former students have gone to college and majored in accounting or some other phase of business administration. Accounting II students are able to broaden and improve knowledge about accounting careers, business procedures, and the use of accounting records. A section on computerized accounting is included in each chapter. Students should be less dependent on the teacher and use more of their own skills and talents in learning the material. Students will need to do daily problems, computer activities and take chapter exams. Evaluation is based on a point system.

Future Prep

Required for Juniors, 1 credit

Prerequisite: None

Offered 1st or 2nd semester

Future Prep is designed to prepare students to be competent consumers, proficient workers, self-motivated college students, and productive citizens in tomorrow's world. Coursework involves the use of investigation, problem-solving and informed decision-making techniques in the areas of earning money, housing options, and obligations, transportation, insurance, savings and investments, taxes, banking, personal finance, and preparation for transition from high school to college and/or the workplace. Other topics discussed will include: selecting colleges, selecting majors, financial aid, scholarships, work world information, and military information. Assignments are taken from a variety of sources and calculators are used frequently.

Business Law

Elective – Dual Credit

Recommended for 11-12 or ELP

Offered - 1st Semester Fall 2023/2024

Presents material essential to understanding laws as they apply to the following topics: The History, Crimes & Torts, Contract Law, and Sales.

Business Ethics

Elective - Dual Credit

Recommended for 11-12 or ELP

Offered - 2nd Semester 2024/2025

Covers major ethical issues facing business practitioners through a study of ethical principles and procedures of analysis, application of these methods to crucial questions of professional conduct and responsibility, and their application to selected business problems of timely interest.

Principles of Management

Elective – Dual Credit

Recommended for 11-12 or ELP

Offered - 1st Semester Fall 2024/2025

Principles of Management is a study of the basic factors within the work environment that affect managerial decision making. An emphasis is placed on the four functions of management as well as a discussion of managerial ethics and social responsibility.

Principles of Marketing

Elective – Dual Credit

Recommended for 11-12 or ELP

Offered - 2nd Semester Spring 2023

Principles of Marketing covers the broad concept of marketing including product, distribution, promotion, and price decisions. It includes the role of buyers and the social issues involved in the marketing process, along with environmental problems, issues, and the philosophy of marketing management.

WORK RELEASE

Multi-Occupations Program (MOC)

Elective

Can either last all year, or can do for one semester. Students will receive one credit per semester for the course and one for working.

Prerequisite: Must be a senior, with principal approval.

The Multi-Occupations Program (MOC) is to help students develop relationships with employers within the community in order to maximize employment opportunities and to learn skills that will lead to a successful transition from high

school to adulthood. Students enrolled in New Hampton High School's MOC Program will receive on-the-job training in addition to classroom instruction, which will help build skills that can be utilized in the future. Students receive credit for classroom instruction and work release hours.

FAMILY AND CONSUMER SCIENCE

Foods I

Elective, 1 credit

Prerequisite: None

May be taken 1st or 2nd semester

This semester course introduces you to the amazing world of food. It examines the nutritional needs of the individual. Emphasis is placed on the six main nutrients, nutrition throughout your lifespan, and careers in the culinary field. You will acquire basic culinary skills: reading a recipe, preparation skills, cooking methods, food safety, and sanitation. Language arts, mathematics, science, and social studies are reinforced. Work-based learning strategies appropriate for this course include: group work and food labs.

Foods II

Elective, 1 credit

Prerequisite: Foods I

Offered 2nd semester

This semester course focuses on food preparation techniques while applying nutrition, food science, and test kitchen concepts. Students develop skills in preparing foods such as: fruits, vegetables, grain products, dairy, eggs, meat, poultry, and fish. English language arts, mathematics, and science are reinforced. Work-based learning strategies appropriate for this course include real-world culinary experiences providing the opportunity to apply essential standards and workplace readiness skills through authentic experiences. Guest speakers and field trips will be utilized when available.

Advanced Foods (Foods III)

Elective, 1 credit

Prerequisite: Foods I & Foods II

This course is offered 2nd semester

This course focuses on advanced food preparation techniques while applying techniques and dishes of global foods. Students will learn about the world's food supply, food science & technology, careers in food, and the art of cooking. Students will develop skills in preparing foods such as: beverages, sandwiches, pizza, salads, casseroles, soups, foods of the United States and Canada and foods around the world. Work-based learning strategies appropriate for this

course include real-world culinary experiences providing the opportunity to apply essential standards and workplace readiness skills through authentic experiences. Guest speakers, field trips, and community service projects will be utilized when available.

Baking I and Food Production I

Prerequisite: Foods I, Foods II

Elective, two credits

This course is offered 1st semester

This course focuses on learning the art of baking and the role of science in baking. Students will develop skills in preparing foods such as: quick breads, yeast breads, cakes, cookies, candies, pies, tarts, and pastries. This class will allow students to gain experience working in a professional kitchen environment while learning the essentials of basic food preparation. Emphasis is placed on techniques and technology used in the food industry. Students objectives will be focused on practical application of skills while preparing a variety of nutritionally sound foods. Students will create menus, food preparation, marketing, and create a student-run business plan for Chickasaw Cafe and a Tribe Pizza business. Students will learn food preparation of making pizzas and take and bake meals.

Baking II and Food Production II

Prerequisite: Baking I and Food Production I

Elective, two credits

This course is offered 2nd semester

This course focuses on learning the art of baking and the role of science in baking. Students will develop skills in more advanced baking items such as pastries, breads, cakes, candies, pies, scones, and pastries from around the United States and other countries worldwide. Baking II Class will learn technology on using software that prints edible ink photos and pictures for cakes and cookies. This class will allow students to gain experience working in a professional kitchen environment while learning the essentials of basic food preparation. Emphasis is placed on techniques and technology used in the food industry. Food Production II Class students will make Tribe Pizzas and Take-N-Bake food products of main dishes and desserts. Students will run a culinary business and learn about marketing, ordering, and food preparation, and more.

Hospitality & Tourism

Elective, one credit

Prerequisite: Foods I

This course lasts one semester, offered 1st and 2nd semester

Hospitality and Tourism involves four industries: Travel, Leisure, Restaurants, and Lodging. Travel involves airplane, cruise ship, and train travel. Leisure is all forms

of recreation including amusement parks, sports arenas, and other attractions. Restaurants and food service are in the food industry. Lodging includes hotels and resorts for overnight stay. Students will explore such concepts as creating a theme park, designing their own hotel, understand the tourism industry, create a travel itinerary, event management, and explore professional work habits needed for hospitality, tourism, and recreation careers. They will also gain an understanding of the restaurant industry through cooking, creating, and designing their own restaurant and catering a meal. Students will explore potential careers in the hospitality and tourism industry. This class will include guest speakers, workplace tours, field trips, and job shadowing when available.

Housing & Interior Design I

Elective, one credit

Prerequisite: None, open to any grade level

This course lasts one semester, offered 1st and 2nd semester

Housing & Interior Design will explore making wise housing choices, learning about elements and principles of design and their application to decorating choices, study floor plans, room and furniture arrangement, study housing styles and architectural design, learn about universal living, as well as consumer rights and responsibilities. Students will gain an understanding of the elements and principles of design by choosing appropriate selections of colors, fabrics, furnishings, lighting, and furniture. Class projects include designing your dream bedroom, loft space, outdoor living design, and mobile / RV living. Students will also explore potential careers in the architecture and design fields. This class will include guest speakers, workplace tours, field trips, and job shadowing when available.

Housing and Interior Design II

Elective, one credit

Prerequisite: Housing & Interior Design I

This course lasts one semester, offered 1st and 2nd semester

Housing & Interior Design will explore making sustainable housing choices, furniture and appliance selection, reading architectural plans, and understanding the steps of construction. Students will gain an understanding of interior systems, lighting, window and furniture styles during the process of design. Students will develop skills in architectural drafting and space planning through the use of hand or computerized drafting techniques. Students will create scaled floor plans for a variety of spaces. Class projects include decorating sample rooms and designing floor plans. Students will also explore potential careers in the architecture and design fields. This class will include guest speakers, workplace tours, field trips, and job shadowing when available.

LANGUAGE ARTS

English 9

Required for freshmen, 2 credits

Prerequisite: None

This course lasts all year

English 9 is a full-year course required of all freshmen. It is designed to improve the students' skills in the comprehension of literature, formal writing, and overall communication skills. Students will read various pieces of literature that include but are not limited to: *Egghead* by Caroline Pignat, *To Kill a Mockingbird* by Harper Lee, and *Romeo and Juliet* by William Shakespeare. Students will also be required to write a creative fiction essay as well as a formal literary analysis essay. A group project over *Romeo and Juliet* will also be required. Daily attendance, class participation, and assignments completed on time are mandatory. Tests are given at the completion of each piece of literature.

English 10

Required for sophomores, 2 credits

This course lasts all year

This course is designed to improve skills in group communication, formal speaking, writing, understanding literature, media awareness and library research. Emphasis will be placed on workplace readiness skills and in working in small groups. Writing assignments will include an autobiography project and a research paper. Students will read a variety of short stories and two novels. Work in the media center will continue to build on skills introduced in English 9. Students are expected to complete assignments thoughtfully and on time, and attend class regularly.

Media Literacy

Elective, 1 credit

Recommended for seniors (10th or 11th grade need instructor approval, not available to 9th grade)

Offered 1st semester

Media Literacy is the study of mass media and its influence and impact on society. This course is designed to help students become media literate, or in other words, to help them see with critical eyes the role that the mass media plays in our lives and in our society. Students will examine the different types of mass media and their histories, as well as explore how each media has been affected by the internet. Students will also analyze the effects of media on society and culture, learn a range of strategies to interpret media, and learn to apply a variety of criteria to evaluate informational media. Students will complete several

media projects, including pitching their own magazine idea. Assessments are given at the completion of each media unit.

Junior Writing and Literature

*Either this course or English 11 Lit. & Writing is required for juniors, 2 credits

This course lasts all year

This course serves as a prerequisite for College Preparatory Literature and Composition. This course will involve interpersonal communication with emphasis on group discussion. Students will also be involved in formal speaking experiences. Essay writing and a short researched essay will be required. The course will cover American Literature using thematic units, and students will read To Kill a Mockingbird and The Giver. Students are expected to have regular attendance and to be prepared for class. Grades will be based on reading, writing, discussion, and individual and small group projects. Quizzes and essay tests will also be given.

English 12 Literature and Writing

*Either this course or Media Literacy and Novels should be taken by seniors as their 4th year of English, 2 credits

Prerequisite: completion of Junior Writing & Literature

This course lasts all year

This course is designed to prepare students for college-level instruction concentrating on literature analysis, writing, and oral communication. This course involves literature based largely on works of English writers from earliest history through the twentieth century. Students will also read and study Macbeth, as well as selected novels. Students will be required to purchase one novel to be used during the second semester. Writing assignments will be varied throughout the year and include the second semester research paper. Individual and group participation is required and attendance is expected. Grading will be based on writing, class involvement, speeches, and literature analysis.

Novels

*This course, along with either Media Literacy or the 1st semester of College Prep can be taken to satisfy seniors' final year of English, 1 credit. (Sophomores and juniors need instructor approval to enroll; not available to 9th grade.)

Prerequisite: None

This course is offered 2nd semester

This is a course that will challenge class members through reading and discussion. Its goal is to develop the reading background of students. During the semester, five novels will be read and discussed. Two novels will be read as an entire class and two will be of the students' own choosing, known as free reading books. The final novel will be read in literature circles, where the students are put

into groups based on a book of choice. Students will be required in those groups to pace their own reading, decide what is being discussed, and decide on what and how they will present their findings. Daily class discussions, formal literary analysis essays, and oral presentations will be used for responding to each novel.

FOREIGN LANGUAGE

**Please remember to check the foreign language requirement for the college/s you are interested in, as they may change from year to year. Remember the college/university graduation requirement may not necessarily be the same as your program (major) requirement, so be sure to look at that as well.

Spanish I

Elective, 2 credits

Prerequisite: None

This course lasts all year

Spanish classes at NHHS are taught using a variety of methods including: Comprehensible Input (CI), story-telling, reading books, music, television shows, videos and movies, and more. Students will gain skills in oral comprehension, reading, writing and oral communication. Through these methods students will acquire a general knowledge of a variety of Hispanic culture from around the globe. Assessments will be in the form of understanding reading text, listening, writing and speaking. Attendance and class participation is a must with this style of learning. If you plan to take multiple years of Spanish, it is strongly recommended that you take the levels consecutively rather than having a gap year.

Spanish II

Elective, 2 credits

Prerequisite: Must have earned at least a 73% in Spanish I or per recommendation by a Spanish instructor

This course lasts all year

Spanish II will continue with the same methods used in Spanish I with a deepening of knowledge in grammar, structures, culture and more. The students will be expected to understand, listen and speak more complicated structures and communicate on a wider range of topics in the class setting. Attendance and class participation is a must with this style of learning. If you plan to take multiple years of Spanish, it is strongly recommended that you take the levels consecutively rather than having a gap year.

Spanish III

Elective, 2 credits

Prerequisite: Must have earned at least a 73% in Spanish II

This course lasts all year

Spanish III will continue with the same methods used in Spanish I and II with a deepening of knowledge in grammar, structures, culture and more. The students will be expected to understand, listen and speak more complicated structures and communicate on a wider range of topics in the class setting. This course will use even more reading, visual and listening materials to support the more in depth acquisition of language skills. Attendance and class participation is a must with this style of learning. If you plan to take multiple years of Spanish, it is strongly recommended that you take the levels consecutively rather than having a gap year.

Spanish IV

Elective, 2 credits

Prerequisite: Must have earned at least a 73% in Spanish III

This course lasts all year

Spanish IV will continue with the same methods used in Spanish I, II, and III with a deepening of knowledge in grammar, structures, culture and more. The students will be expected to understand, listen and speak more complicated structures and communicate on a wider range of topics in the class setting. This course will use even more reading, visual and listening materials to support the more in depth acquisition of language skills. Attendance and class participation is a must with this style of learning.

INDUSTRIAL TECHNOLOGY

Introduction to Drafting & Graphic Design (Fall)

This course will offer students the opportunity to explore Technical Drafting , CAD, EnRoute, Carbide 3d, Adobe InDesign and Illustrator, and other design software. Students will also learn ShopSabre, Boss Laser, CNC table router and other software based tools. This course is a foundation for the Industrial Technology Program and is a Prerequisite for all advanced courses.

Introduction to Manufacturing (Spring)

Prerequisite: Drafting and Graphic Design

This course will be divided into the following, Q1 Woods and Q2 Metals. Students in Q1 will use skills learned in Drafting and Graphic Design to develop and produce projects out of wood. They will learn to use different types of tools and equipment to help in the production of these projects. Students in Q2 will learn how to use Braze weld, the metal removal process by using the engine lathe, working with sheet metal, benders and the mini foundry. The students skills

developed in this course will be essential for future classes.

Building Trades (Fall)

Prerequisites: Introduction to Manufacturing

This course will give students the opportunity to learn the fundamentals of construction and carpentry including trades math, measurements, costs, and production. Students will work in teams to design and construct a building. Students will also have the opportunity to design and develop other home furnishings.

Metal Working (Spring)

Prerequisite: Introduction to Drafting and Design and Introduction to Manufacturing This course gives the students the opportunity to learn the fundamentals of welding using the Miller Electric Open Book program. It also gives the students exposure to different forms of welding processes such as SMAW, GMAW, Plasma Torch, Oxy/Acy Torch. This course will also explore metal fabrication with use of the metal lathe, benders, and vertical mill. Finally this course will also include the foundry and the basics sand casting.

Advanced Manufacturing (Full Year)

Prerequisites: Junior/Senior, Metal Working, Building Trades

This course is designed as a year long course. This course is created as a school Industrial Tech Business that incorporates SkillsUSA into the curriculum. The students will design and build different products that will be available to the public for purchase.

Independent Studies (Fall/Spring)

Prerequisites: Must be a Junior/Senior Standing and approval from teacher

This course gives students the opportunity to work independently learning new skills and the ability to help guide younger students in their courses which will incorporate SkillsUSA. This will be in place of their study hall and if a study hall is needed, they will have the opportunity to work on those courses also.

Welding Fundamentals

Elective, one credit

Prerequisite: Manufacturing I/II and Manufacturing Welding

Dual Credit with NICC

Juniors and Seniors Only

Offered 1st semester

Introduces students to the concept and practice of blueprint interpretation as needed by welders in an industrial setting. Emphasis is on the basics of interpretation and application in specific situations.

Gas Metal Arc Welding

Elective, one credit

Prerequisite: Welding Fundamentals

Dual Credit with NICC

Juniors and Seniors Only

Offered 2nd semester

An introductory class studying Short Circuit Gas Metal Arc Welding (GMAW) and other related processes. Topics such as process variation, welding in various positions, and principle of operation, shielding gases, and wires will be studied. Safety and practical application of these welding processes will be stressed.

Foundry

Elective, one credit

Prerequisite: Manufacturing I/II and Manufacturing Metals

Partnered with ATEK

Juniors and Seniors only

Offered 2nd semester

Students will get to know the operations of ATEK. Being in partnership with ATEK, students will get the opportunity to learn hands-on industry driven experiences.

COMPUTER SCIENCE

Computer Science Principles

Elective, 2 credits

Prerequisite: No official prerequisites, but students should be proficient in math

This course lasts all year

Computer Science Principles (CSP) is an entry-level computer science course that introduces high school students to the foundations of modern computing. The course covers a broad range of topics including digital information, the internet, app design, programming, data, cybersecurity and app building. This course also includes a unit on robotics, including construction and programming of robots using VEX Robotics kits.

MATHEMATICS

Transitional Math (Pre-Algebra)

Can be used as a required math course, 2 credits

Prerequisite: None

This course lasts all year

Transitional Math reviews a wide range of mathematical topics and then adds to that knowledge, especially in the Algebra discipline. Students will become more

skillful in carrying out mathematical problem solving processes in realistic situations. Points are earned from daily assignments, quizzes, projects, and tests. A pencil, calculator, ruler (cm/in), and protractor are required. Students should bring all materials to class each day.

Algebra

Is a required math class, 2 credits

Prerequisite: None

This course lasts all year

Freshmen earning a D or lower at the end of first semester will be transferred to Transitional Math second semester. This will allow students to build a solid mathematical foundation and will allow them to be successful in Algebra and Geometry.

Algebra I deals with computation of quantities represented by letters rather than numerals. Algebra I is used in the following careers: accountant, carpenter, architect, engineers, meteorologist, psychologist, pharmacist, electrician, computer programmer, and pilots. Some of the concepts covered include: set theory, signed numbers, methods of computation, solutions of linear equations, graphing, and factoring. Algebra I should be taken by all students planning to attend college, technical school, trade school, etc., regardless of the field of study to be pursued. Students are expected to complete all daily work as assigned. Students will be graded on a total point basis for the semester. Calculators: if this is your first year of your 3 year Mathematics requirement, it is recommended that your next calculator be a TI-83+ (or comparable) graphing calculator since it will be required for Advanced Algebra.

Geometry

Can be used as a required math class, 2 credits

Prerequisite: 2 credits of Algebra I

This course lasts all year

Those students who plan to attend college or to enter a technical field, such as those of a carpenter, mechanic, computer programmer, medical technician, farmer, mass media technician, or tool and die maker, to name only a few, should take geometry. Students in geometry sometimes work in cooperative groups and use inductive reasoning to develop and use conjectures regarding angle and line relationships, triangle properties, polygon properties, circles, transformations, area, right triangle relationships, volume, similarity, and trigonometry. The course includes deductive reasoning and the writing of proofs. A geometry student is expected to complete all daily assignments, quizzes and tests. An assignment is given over each section of the text. Attendance is very important in geometry because the topics covered are accumulative. Missing the explanation of a new topic can create a handicap for the entire year. It is required that each student buys his/her own compass and protractor. The high school will lend geometers

for students to use. Students who do not take proper care of these supplies should expect to be fined.

Advanced Algebra

Can be used as a required math class, 2 credits

Prerequisite: completion of Algebra I and Geometry

This course lasts all year

Advanced Algebra is a continuation of the basic fundamentals acquired in concepts to real world problems. The students will study concepts such as area, volume, surface area, solving equations, graphs, number systems, solving inequalities, factoring, rational expressions, functions and relations, matrices, determinants, sequences, series, probability, statistics, and trigonometric functions. Student participation and responsibility is expected throughout class activities and on assigned materials. Students will be evaluated using participation, homework, quizzes, and tests. A TI-83+ (or comparable) graphing calculator is required.

Pre-Calculus

Can be used as a required math course, 2 credits

Prerequisite: completion of Algebra I, Geometry, and Advanced Algebra

This course lasts all year

Pre-Calculus is intended to provide a broad foundation of pre-calculus concepts, techniques, and applications to enable the student to continue their pursuit of higher mathematics. Areas of study include, but are not limited, to: functions, inequalities, graphing applications, and trigonometry. This class is designed as a college preparation course and the teacher's expectations are based upon this fact. Students will be evaluated using participation, homework, quizzes, and tests. A TI-83+ (or comparable) graphing calculator is required.

Calculus

Elective, 1 credit

Prerequisite: completion of Pre-Calculus

Offered 1st semester

This is a course in elementary functions and introductory calculus. Topics include properties of functions, limits, the derivative, applications of the derivative, ant derivatives and techniques and applications of integration. Students are expected to do work similar to that of college students in both the quantity and quality of homework done out of class. Students will be evaluated using participation, homework, quizzes, and tests. A TI-83+ (or comparable) graphing calculator is recommended.

Statistics

Elective, 1 dual credit

Prerequisite: Completion of first semester Pre-Calculus, preference given to students who have completed Calculus

Offered 2nd semester

Students will work with probability, data collection, descriptive and inferential statistics. The main focus of the course will be exploring data, analyzing, using probability theory, and making statistical inferences. Students will work with statistical measures of centrality and spread, methods of data collection, methods of determining probability, binomial and normal distributions, hypothesis testing, and confidence intervals. Students will use multiple representations to present data including written descriptions, numerical statistics, formulas, and graphs. A TI-83+ (or comparable) graphing calculator is recommended.

MUSIC

Band

Elective, 2 credits

Prerequisite: must have been in middle school band or with director's permission

The course lasts all year

Band (Instrumental Music) is a broad based program, which tries to develop each student's skills and abilities to their highest possible level. These skills and abilities are then used to develop the various ensembles to their highest possible level. Instrumental music offers instruction and performance possibilities in six main areas: marching band, concert band, jazz band, pep band, small groups and individual study. Band members are active in both school and community events. Performances are as follows: Marching Band - all home football games and various local parades; Concert Band - three concerts, may compete in state large group contests or national large group competitions; Jazz Band - three concerts, area festivals, and contests; Pep-Band - perform for six to eight winter sports events; Small Group - may perform at State Ensemble Contest as well as local performances; Individual - State Solo Contest, area festivals, All-State Auditions, and local performances. Students are expected to attend all scheduled performances of the large groups, to attend all rehearsals, to attend a lesson once very cycle (to be determined based on a student's schedule) as well as having materials being rehearsed in large groups prepared.

Nu-Hi Chorale

Elective, 2 credits

Prerequisite: None

This course lasts all year

This course emphasizes performance. The main performances are the Fall and Winter concerts, Coffee House, and State Large Group Festival. Vocal training continues through group rehearsals and group/individual voice lessons. Attendance at all rehearsals is required. Some of the department activities may/will require out-of-school rehearsals and performances, which may/may not interfere with other school activities and work. Besides the main performances described above, members of this Chorus have the opportunity to participate in many of the extra department activities. Some of those activities are: "All State" chorus auditions, fall musical, choral festivals, solo/ensemble contest, variety show and community performances. Eligibility to participate in these activities is based upon interest, ability, attitude, auditions, and availability.

Chamber Choir

Elective, 2 credits

Prerequisite: must audition

This course lasts all year

This course emphasizes performance. The main performances are the Fall and Winter concerts, Coffee House, State Large Group Festival, and the musical every other year. The main focus is on quality vocal literature. Vocal training continues through group rehearsals and group/individual voice lessons. Attendance at all rehearsals is required. Some of the department activities may/will require out-of-school rehearsals and performances, which may/will not interfere with other school activities and work. Besides the main performances described above, members of this Chorus have the opportunity to participate in many of the extra department activities. Some of those activities are: "All State" chorus auditions, fall musical, choral festivals, solo/ensemble contest, variety show, and community performances. Eligibility to participate in these activities is based upon interest, ability, attitude, auditions, and availability.

SCIENCE

Physical Science

Required for Freshmen, 2 credits

This course lasts all year

Physical Science is a year-long course that surveys a broad overview of the fundamental concepts of the physical sciences. First semester focuses on a review of the scientific method and basic principles of Chemistry and Astronomy while second semester focuses on the foundations of Physics. Activities in class will center on the development of questioning, critical thinking, and communication skills. Demonstrations, lab work, group discussions, independent projects, and group presentations will challenge students to apply course material to real world applications such as consumer product testing and

Mousetrap racers. Students are expected to attend all classes and participate in all class activities. Total points earned on tests, projects, labs, class participation, and assignments will determine course grade.

Biology

Required for sophomores, 2 credits

Full year course

Biology is the study of life. This course emphasizes the fundamental unity in the diversity of life forms. Biology focuses on the major life processes, eight characteristics of life as well as the adaptation of organisms. Throughout the course, students should gain an understanding of 1) the nature of scientific inquiry---science is an open-ended intellectual activity and what is presently “known” or believed is subject to change at any time; 2) the diversity of life and the interrelations of all organisms; 3) the limitations of science and of the scientific method--some problems of great importance cannot be dealt with scientifically; 4) the biological bases of problems in medicine, public health, agriculture and conservation; 5) the historical development of biological concepts; 6) technology in biology; 7) human biology and the relationship of humans to other organisms.

Chemistry

Can be used as the 3rd year for a required science credit, 2 credits

Prerequisite: completion of Physical Science and Biology, and completion or current enrollment of Advanced Algebra

This course lasts all year

Chemistry is an upper-level, year-long science course. First semester topics: measurement, problem solving, dimensional analysis, significant figures, properties of matter, physical and chemical changes, elements, atoms, ions, structure of the atom, nomenclature, chemical reactions and chemical composition. Second semester: chemical composition, stoichiometry, energy, atomic theory and electrons, chemical bonding and acids and bases. Students should expect a challenging year that includes a considerable amount of lab work.

Physics

Elective, 2 credits

Prerequisite: Completion of two years of required science and Advanced Algebra (or be currently enrolled in it)

Full year course

Physics is a course for students who will be attending college in any field that has a science-related background, including engineering, computer science, healthcare, and other science-related fields. Physics is the study of how and why the universe works, from the subatomic world to the universe on a large scale. The

study of motion, called mechanics, will dominate the first semester. Second semester will include electricity, thermodynamics, special relativity, and nuclear physics.

Anatomy and Physiology I w/ Lab

NICC Class

Elective, 1 credit (4 college credits each semester)

Prerequisites: One year high school biology/chemistry or college equivalent with a minimum grade of C-; or a minimum grade of C- in BIO-112, BIO-157, or CHM-110, taking Medical Terminology (NICC) before or during the class is recommended

The first of a two-semester sequence providing a comprehensive study of the structure and function of the human body for college transfer and/or allied health programs. Topics include, but are not limited to, body organization, homeostasis, cells, tissues, integumentary system, skeletal system, muscular system, and nervous system. Laboratory component includes anatomical studies using microscopy and dissection as well as the study of physiological concepts via experimentation.

Anatomy and Physiology II w/ Lab

NICC Class

Elective, 1 credit (4 college credits each semester)

Prerequisite: Successful completion of BIO 168 AP I w/Lab with a C- or high is required for enrollment in this course

The second of a two-semester sequence providing a comprehensive study of the structure and function of the human body for college transfer and/or allied health programs. Topics include, but are not limited to, body organization, homeostasis, endocrine system, reproductive system, cardiovascular system, lymphatic system, immune system, respiratory system, urinary system, and digestive system. Laboratory component includes anatomical studies using microscopy and dissection as well as the study of physiological concepts via experimentation.

Environmental Science

Can be used as the 3rd year of required science credit, typically by juniors, 2 credits

Prerequisite: None

This course lasts all year

Students will complete hands-on activities, projects, and problems that simulate actual concepts and situations found in the environmental science field, allowing students to build content knowledge and technical skills. Students will investigate

areas of environmental science including ecosystem management, sustainable agriculture, energy choices, and pollution.

Advanced Chemistry

Elective, 2 credits

Prerequisite: Advanced Algebra and Chemistry

This course lasts all year

Advanced Chemistry is a course for students who will be attending college to study any field that includes science. Students who will be going into healthcare, engineering, chemistry, biology or any other science, or any demanding field should consider advanced chemistry. First semester topics include: measurement, problem-solving, dimensional analysis, atomic structure, subatomic structure, stoichiometry, chemical reactions, gas laws and thermochemistry. Second semester topics include kinetics, equilibrium, acids and bases, energy and thermodynamics, bonding, electrochemistry, and nuclear chemistry. Students should expect a year that includes many college-level topics and lab activities.

SOCIAL SCIENCE

Civics

Required, sophomore year, 1 credit

This course is offered 1st or 2nd semester

Civics focuses on students demonstrating an understanding of the rights and responsibilities of an active citizen in our democracy and modeling these skills, attitudes, and values. Students will gain extensive knowledge on the history of our democracy and the U.S. Constitution as well as learn how government, politics, and the law relates to them. Reading the assigned material and completing all daily work is essential to success in the class. Active class participation is also important. In addition to unit tests and quizzes, learning is assessed by projects and a culminating simulation activity. Also, students will have the opportunity to demonstrate civic skills, attitudes, and values by attending a city council meeting.

US History

Required junior year, 2 credits

This course runs all year

United States History is a chronological study of the very important happenings of the Nation's past. The period studies is from World War I to the present. Emphasis is placed on the period of the world conflict which culminated in World Wars I and II, the Depression era of the 1930's, and developments in the Cold War, Civil Rights, Vietnam, and recent history. Students will learn about the past so they can understand the present. Also, the course will broaden the student's perspective of their country and the world. Students will also develop critical thinking skills as well as an appreciation of their heritage. Students will be

expected to do the basic daily work as well as tests and quizzes over the assigned material. Also, students will do special assignments and projects as assigned by the instructor.

US Government

Required senior year, 1 credit

This course is offered 1st or 2nd semester

U.S. Government builds upon the foundation of knowledge established in Civics while focusing on the origins, history, principles, structure, functions, and processes of the United States government system. In particular, students will learn about their constitutional freedoms and gain extensive knowledge of the three branches of government. Reading the assigned material and completing all daily work is essential to success in the class. Active class participation is also important. In addition to unit tests and quizzes, learning is assessed by projects and a congressional simulation. Also, students will have the opportunity to learn about local government by attending a school board meeting.

Economics

Required senior year, 1 credit

This course is offered 1st or 2nd semester

This course is designed to develop in students an understanding of the world of economics that will allow them to participate more effectively in their roles as consumer, producer, investor, and citizen. Every day events happen in economics that affect our lives and each person needs the proper tools to react to these events. Unites deal with fundamental concepts, such as scarcity of resources and various economic systems; microeconomics concepts, such as supply and demand and pricing; and macroeconomic concepts, such as government revenues and expenditures, and financial institutions. Also an emphasis will be placed on developing personal (consumer) economics skills such as taxes, personal finance, banking, investments, and insurance. Students are expected to read assigned materials, participate in class discussion, and promptly turn in daily assignments from the textbook and handouts. Tests and quizzes will be given every week over the material covered. Projects and simulations will also be used to assess student learning. Current happenings concerning economics in the US and the world will be stressed (articles.) This course grade is based on total points earned for the semester. Satisfactory completion of this course is needed for graduation.

World History

Elective, 1 credit

Prerequisite: None

This course is offered 2nd semester

World History focuses on the major periods in the history of humans throughout the world in order to better understand today and the future. In particular, students will learn about the first civilizations, Greek and Roman Empires, Middle Ages in Europe, Reformation, Renaissance, and the Scientific and Industrial Revolutions. Reading the assigned material and completing all daily work is essential to success in the class. Active class participation is also important. Learning is assessed by unit tests, quizzes, and projects.

Contemporary Affairs

Elective, 1 credit

Prerequisite: none

Recommended for 11th and 12th grade

This course is offered 1st semester

Contemporary Affairs focuses on current local, state, national, and international events. Students will understand how these events affect our society and their lives. Topics that we have discussed recently include wars, social issues, elections, and entertainment-sports stories. Furthermore, students will demonstrate ability to gather, evaluate, and interpret information from a variety of sources. Class participation is essential to success in the class, and the level of active and appropriate participation is assessed and is a major part of the final grade. Learning is assessed by weekly current events quizzes, daily work, and projects.

World Geography

Elective, 1 credit

Prerequisite: None

Recommended for 9th and 10th grade

This course is offered 1st or 2nd semester

Geography is the study of the interaction of nations and cultures from both a geographical and historical perspective. Geography invites students to study the effects of history (an enormous body of facts about the past) on today's society, economy and culture in the United States, Canada, and Mexico. Students will learn the tools of history and geography in order to gain an understanding of how societies have developed in these countries and continue to evolve.

Strategies for successfully interacting with the textbook and other resources will be taught and practiced. Students will be expected to be prepared for class (reading the text in order to contribute to class and peer discussions, and completing written assignments) as well as being prepared for tests and quizzes over concepts learned. In addition students will do special assignments and projects (reports, papers, etc.) as assigned by the instructor. This course is intended to widen a student's mental horizon, giving them a look at the past as it has influenced today.

Particular Topics in U.S. History

Elective, 1 credit

Prerequisite: None

Recommended for 11th and 12th graders

This course is offered 1st or 2nd semester

Particular Topics in U.S. History is a research/reading-intensive, project-based, student-led class that requires students to complete several independent-study research projects allowing students to focus in-depth on topics of particular interest in the history of the United States of America. Students must be self-motivated, self-guided, and have a passion for learning about the past as well as historical research. Learning is assessed by the completion of several independent-study research projects.

PHYSICAL EDUCATION/HEALTH

Physical Education

Regular PE or Strengthening & Conditioning are required, one half credit per semester

This course lasts all year

Physical Education is part of a planned, sequential, K-12 district curriculum that promotes physical fitness, movement skills, sport skills, and lifelong physical activity. The program is designed to teach students skills that will keep them active and healthy. The following units will be components of the program:

Soccer, Speedball, Tennis, Flag Football, Basketball, Broom Ball, Introduction to Wrestling, Walk/Jog/Run, Weight Training and Fitness Testing, Cardiopulmonary Resuscitation, Water Safety, Orienteering, Golf,

Rollerblading/Skateboarding/Cycling, Rappel, Outdoor Recreational Games, Stress Management, Camping, Fish Iowa, and Archery.

Strength & Conditioning

Regular PE or Strengthening & Conditioning are required, one half credit per semester

This course lasts all year

Strengthening & Conditioning will focus more on weight lifting, toning and core-strength. Will meet in the weightroom.

Health I

Elective, one credit

Prerequisite: None

This course is offered 1st semester

Topics include the basics of health, social, physical, and mental health.

Health II

Elective, one credit

Prerequisite: completion of Health I

This course is offered 2nd semester

Topics include positive behavior, cause and effects of healthy choices, and effects of poor health choices.

IOWA BIG NORTH

For juniors and seniors only

These various core and elective courses will be offered off site from the “Mothership.” (New Hampton, Charles City and Turkey Valley) Students will meet one, two, three, four, or five periods a day. Cooperating schools are New Hampton, Charles City, and Turkey Valley. Credits earned by students will be linked to their High School or community college. Participating students will be expected to collaborate with their peers and professionals as they explore community issues to solve real-world problems. Students may collaborate on a project from all or any of the participating schools. This passion-driven, inquiry-based course is designed to expose/develop a student’s passion and share that enthusiasm with each member of the collaborative group. Students will sign up for credits in science, English and/or universal constructs after having conversation with one of the lead facilitators.

New Hampton IBN Site

Beginning in the school year 2020-2021, the New Hampton Iowa BIG North site will be based at 112 East Main Street in downtown New Hampton, with beautiful floor-to-ceiling windows facing the street. There is one large open space with a kitchenette and coffee bar creating a modern cooperative shared workspace. There is also one large conference room which can be split into two when needed for various initiative meetings. The IBN space is open not only to students and staff but business partners and entrepreneurs as well. The site has an open door policy 1st-8th period daily and is staffed by Mrs. Anderson, Ms. Konecne, Ms. O’Brien, and Mr. Kuennen.

IBN Courses Offered

Universal Constructs-- Elective CTE Credit

This course provides students the opportunity to engage in in-depth and more sustained projects in professional business, community, and/or government settings. Students will engage in pursuing answers to professional problems and projects while being immersed in a professional work environment. Development of 21st century and employability skills will be a strong focus of this course. This course is competency-based, meaning

students will be expected to demonstrate their understanding of the standards and content of the course in contextual performances for authentic audiences. Students complete the course when they have adequately demonstrated their competence in the identified standards.

Research and Technical Writing (RAI approved)-- English Core Credit

This course is designed to help students reach grade level, Iowa College Core and Readiness in Writing, Speaking and Listening, and Language. Students will design, create, and edit a number of written pieces including persuasive, informational, and research text. Students will become acquainted with the use of APA citations and format. Resources will include community partners, materials from Professional Studies (Future Prep), and traditional digital and print research. This course is competency based, meaning students will be expected to demonstrate their understanding of the standards in contextual performance for authentic audiences. Students complete the course when they have adequately demonstrated their competency in the required standards.

Analysis of Literature (RAI approved)-- English Core Credit

This course is designed to help students reach grade level, Iowa College Core and Readiness in Reading/Literature, Reading/Informational Text, Speaking and Listening, and Language. Students will study, explore and contextualize recurring themes in texts from the United States and around the world to understand how they impact our work, community, and society. Literary work, for the most part, will be selected from texts published since 1950 and will include fiction and non-fiction, print and non-print sources. Resources will include traditional academic and digital resources and a community of experts and practitioners. This course is competency based, meaning students will be expected to demonstrate their understanding of the standards in contextual performance for authentic audiences. Students complete the course when they have adequately demonstrated their competency in the required standards.

IBN Professional Studies

Required for Juniors, 1 credit (meets Future Prep requirement)

Prerequisite: None

Offered 1st and 2nd semester (one year course)

Future Prep is designed to prepare students to be competent consumers, proficient workers, self-motivated college students, and productive citizens in tomorrow's world. Coursework involves the use of investigation, problem-solving and informed decision-making techniques in the areas of earning money,

housing options, and obligations, transportation, insurance, savings and investments, taxes, banking, personal finance, and preparation for transition from high school to college and/or the workplace. Other topics discussed will include: selecting colleges, selecting majors, financial aid, scholarships, work world information, and military information. Assignments are taken from a variety of sources and calculators are used frequently.

STEM Innovator-- College Credit for U of I and High School Science Elective Credit

Students identify a problem of interest, verify and validate the problem through customer discovery, and establish and implement a solution.

Students have the opportunity to earn 3 college credits from the University of Iowa.

NICC Public Speaking

An introductory course designed to help students develop skills as speakers and critical listeners, increase understanding of the concepts and principles of verbal communication, and become more effective communicators in formal and informal speaking situations.

*Students will capitalize and share about their experiences and relationships they have cultivated while working with local businesses and entrepreneurs on solving real-world problems in our communities.