

Northeast Middle- High School Course Registration Guide

2026-2027

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EDUCATIONAL PROGRAM

2026-27

Graduation Requirements for Northeast Community High School

Language Arts Requirements:

2 Credits	English 9 (Writing & Lit.)
2 Credits	English-Composition - English 10
2 Credits	American Writings
2 Credits	World Literature or English Comp I & II

Social Studies Requirements:

2 Credits	World History
2 Credit	American History Since 1965
1 Credit	Economics
1 Credits	American Government

Mathematics Requirements:

2 Credits	Pre-Algebra, or Algebra I
2 Credits	Algebra I or Geometry
2 Credits	Geometry or Algebra II
2 Credits	Algebra II or Pre-Calculus/ Calculus
	If Algebra II has been completed: Forensics, Personal Finance, College Prep Math, STEM 360, Accounting, Stats

*All students must complete Algebra 2 or the special education equivalent prior to graduation

Science Requirements:

2 Credits	Biology I/ Biology II
1 Credit	Earth Science
1 Credit	Physics I
2 Credits	Chemistry I/ Chemistry II

Financial Literacy

1 Credit	Financial Literacy
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Physical Education Requirements:

4 Credits	successful completion of 4 years
1 credit-----	Health including CPR

Grades 9-12

Required Credits

34*

Elective Credits

18*

Total Credits

52*

All students are required to earn a minimum of 7 credits each semester. Exceptions to this requirement can be made at the discretion of the administration. **Freshman & Sophomores** are required to be enrolled in 8 courses counting physical education. **Juniors & Seniors** are required to be enrolled in 7 courses counting physical education.

A full-credit course is a course/subject that meets every other day for 85 minutes for 18 weeks.

If a student fails a required course, that course must be repeated before going on to other courses in that subject area. Students are required to earn 52 credits for graduation.

Suggested Programs of Study

The following courses of study have been outlined to aid the student in planning selections for high school. It should be remembered that these planning guides are merely “suggested” courses of study for students who have already decided upon their future plans. If you have any doubts, go and see your counselor.

College-Bound Program

Grade 9	Cr
English-9	2
Algebra I or Geometry**	2
Biology (full year)	2
Spanish I	2
American History	2
Physical Education & Health	2
Total Credits	12

Grade 10	Cr.
English-10	2
Geometry or Algebra II	2
Earth Science & Physics	2
World History	2
Spanish II	2
Physical Education	1
Total Credits	11

Grade 11	Cr.
Eng- American Writings	2
Algebra II or Pre-Calculus	2
Spanish III	2
Chemistry	2
Psychology/Sociology	2
Physical Education	1
Financial Literacy	1
Total Credits	12

Grade 12	Cr.
Eng - Eng. Comp 1/II	2
American Govt/Economics	2
Pre-Calculus or Calculus	2
Physics/Anat. & Physic	2
Spanish IV	2
Physical Education	1
Total Credits	11

**Algebra may be an entry level requirement for employment in some industries.

College-bound students also are offered Calculus, Adv. Chemistry and Anatomy/Physiology

Recommended High School Background in Various Occupational Fields

While many colleges and jobs have no specific preparatory course requirements for admission, the design of many college programs and professional careers assumes that a student has a high school background which includes:

English - 4 year

Mathematics - 4 or more years

Social Studies - 3 years

Science - 3 or more years

Foreign Language - at least 2 years and/or more in one language

The career areas in which the above requirements are generally needed include:

Agriculture: special emphasis on 2 years of algebra, 1 year of geometry.

Business Administration: the high school program should encompass the various areas listed above, which reflect a broad general background.

Dentistry: specific emphasis on biology, physics, chemistry, algebra, geometry, and college math.

Education: the high school program should encompass the various areas listed above, which reflect a broad general background.

Engineering: special emphasis on 4 years of science (including chemistry and physics), 4 years of math (including algebra, geometry, and college math).

Family & Consumer Sciences: specific emphasis on algebra and geometry and/or trigonometry as well as the broad curriculum outlined above.

Law: the broad curriculum outlined above will give the student the necessary background.

Medicine: special emphasis on biological sciences, chemistry, physics and algebra, geometry and college math.

Nursing: special emphasis on the biological sciences, chemistry, and physics; also helpful to have a course in sociology or psychology.

Pharmacy: special emphasis on 4 years of science.

Science and Humanities: usually includes study in mathematics, physical, biological and social sciences; in arts and humanities; in systems of communication; in health studies and physical education special emphasis is on algebra, geometry and advanced algebra as well as the broad curriculum outlined above.

Veterinary Medicine: special emphasis is on algebra, geometry, advanced algebra, and trigonometry; chemistry and physical and biological sciences.

College Connection Individual Registration Policy - The College Connection Individual Registration Policy allows 10th, 11th & 12th grade students to enroll part-time in classes at eligible community colleges, state universities or private colleges and universities. Students taking college courses may earn dual credit (high school & college) for the courses.. These courses are taken at Clinton Community College. **Students must be proficient on the ISASP tests to enroll.** See your counselor for more information.

Con-Current College Credit - The following options are available for college credit. These are courses taken at Northeast High School for high school credit and college credit include: Computer Applications I /Intro to Computers, English Composition I, English Composition II, Accounting, and Intro to Business. **Students must be proficient on the ISASP tests to enroll.**

Career Academies-Students have an option to attend Clinton Community College for the Career Academies in several career and technical areas. If enrolled in an academy course students will be at the college center for half of the school day and at Northeast for the remainder of the day. **Students do not have to be proficient on the ISASP for Career Academy enrollment.** For a full list of options and course times please see the school counselor.

Early Graduation Policy

I. It is a policy to allow students at Northeast Community High School, after having met all the course requirements of this District and the State of Iowa, to graduate early. A student desiring to graduate early shall make a written application to the high school principal.

II. Those students who qualify for early graduation may receive their diploma at a regular session of the School Board or at the regular commencement ceremonies at the end of the year.

Language Arts

Middle School Courses:

6th Grade

The course begins with a focus on the parts of speech, punctuation usage, sentence structure, paragraph writing and vocabulary. The course progresses into units covering informative and argumentative writing. Within the writing units, students interact with a variety of nonfiction and fictional texts and collaborative discussions.

7th Grade

In this course we cover basic grammar and vocabulary. There will be units on Reading Nonfiction, Reading Fiction, Informational Writing, Argumentative Writing, and Narrative Writing. Students will conduct research for at least one written essay. Speaking and listening skills are assessed throughout. Students will read a variety of nonfiction texts, fictional short stories, and at least one novel as a whole class.

8th Grade

Over the course of the year, students will be practicing and assessing language, reading, and writing standards. Language standards include grammar, capitalization, punctuation, spelling, determining the meaning of unknown words, and figurative language. Reading standards will include citing textual evidence, determining themes and central ideas, determining the meaning of unknown words and phrases, inferencing, making connections among texts, determining the author's point of view, and evaluating arguments. We explore these skills through the use of multiple types of texts, including both fiction and non-fiction articles and short stories. Writing standards that will be assessed include argumentative writing and informative/explanatory writing, with a focus on producing clear and coherent writing, organization, planning, revising, and editing of writing.

Required Courses:

English - 9 *required

Year

This is a course in basic grammar, usage, writing and literature. There will be units on parts of speech, phrases and clauses, sentence structure, paragraphs, poetry, short stories, drama, epic tales and novels. There will be reading, writing, listening, and film viewing to be evaluated.

English-10 * required

Year

English 10 is a continuation of the skills introduced in English 9. The course is literature-based familiarizing students with a variety of short stories, novels, nonfiction works, poetry, drama, legends and humorous selections. Along with reading, students will also be engaged in the writing process producing essays, letters, critical responses, reports, and research projects. Opportunities for public speaking are incorporated into the class. Additionally, grammar, usage, spelling, and vocabulary are regular components of the course.

English- American Writings - 11 *required

Year

This one year course combines American literature from a variety of eras, authors, and genre with different student initiated writings. Student writing activities include; generating ideas; clarifying purpose, developing thesis statements, and composing a research paper along with descriptive, expository, and persuasive essays; there will also be socratic seminars; formal and informal discussions; all of these items will encourage student independence as the year progresses..

English-World Literature - 12 *required

Year

This one year course will focus on various literature from multiple cultures. Epics such as Beowulf will allow students to understand ancient heroes and how they are still relevant today. Short stories and the various themes they present will also be evaluated. In addition to this, Modern literature will be read and digested both for reliability and relevance. By looking at a variety of ancient and modern texts students will understand how Literature is ingrained in our daily society regardless of their future occupational desires. Students will be required to read, digest, take notes, think, research, write, and give oral reports.

Elective Options:

Social Media Visual Branding Marketing: 10-12

Semester

Have you ever wanted to create something from scratch and be proud of the work you have done? Well, this is the class for you. In this class students will be working on creating graphics, videography, photography, and posting on social media for all our Rebel accounts. Students will be learning how to create captured moments in both photography and videography. Students will work on creating “hype” videos for our athletics program. This will be a project drive class with tight deadlines. There will be a lot of technology and programs that we will be learning how to work together. This is going to be a one of a kind class that will help brand our school and promote all athletics, departments, clubs, organizations, and the arts. It is important that when you sign up for this class that you understand failure to meet deadlines will be the majority of this class.

Media I – 10-12

Semester

In Media I students examine modern forms of print mass media including the yearbook for the Northeast 6-12 school.. It will focus on advertising, marketing, creating ad sales, and being able to capture and preserve history. This course cannot be taken as a substitute for any literature requirement.

Media II – 10-12

Semester

In Media II students examine modern forms of print mass media including the yearbook for the Northeast 6-12 school.. It will focus on advertising, marketing, creating ad sales, and being able to capture and preserve history. This course cannot be taken as a substitute for any literature requirement..

English Composition I: 3 hrs. college credit

Semester

(Preferences given to seniors) A writing and reading course designed to prepare the student for the types of written communication and thought essential to the academic and working world. The general goals of Composition I are to have students gain more confidence in their writing abilities and improve their proficiency in critical reading and in writing non-fiction prose, with emphasis on narration, exposition, and persuasion. This is a dual credit course, taught at Northeast, through Eastern Iowa Community College.

English Composition II: 3 hrs. college credit

Semester

(Preference given to seniors) An advanced writing and reading course focusing on logic in thought and communication. Emphasis is on reasoning and argument, research skills, and academic writing style. This is a dual credit course, taught at Northeast, through Eastern Iowa Community College.

Classical Rome 10-12

Semester

From two, young and abandoned Etruscan boys being raised by a she-wolf, all the way to the successful conquering of the Mediterranean Sea by diplomacy and war, the history of Rome is rich and complicated. Are you curious to know who the most noble person in ancient history is, and why there is a city in Ohio named after him? Ready to find out how Cornelia's prized jewels led to both the flourishing and the eventual collapse of the Roman Republic? Learn all of this and more in a survey of the greatest empire in the history of the world that still has roots in many of the world's modern “empires”. This course will focus on multiple ways of expression from oratory assignments that will mirror Cato's “Carthage must be destroyed!” speech, to written expression that would make Cicero himself weep and encourage him to replace his “De Officiis.”, with yours as the premier written work for the modern world. **“Audentes fortuna iuvat.”**

Classical Greece 10-12

Semester

“What is the purpose of all these struggles? That you are here, that life exists, and identity. That the powerful play goes on and you may contribute a verse.” While these famous lines are found in a Walt Whitman poem, one might find the same thing throughout the architecture, history, and literature of the Grecian world. We will look at the legendary roots of the greatest civilization this side of the Adriatic. The works of Thucydides, Herodotos, Hesiod, Homer, and Thucydides, as well as Aristophanes, Euripides, and Sophocles. We will seek to better understand the people who lived, breathed, and thought over 2,000 years ago about the exact same things we think about today. Why are we here? What is our Purpose? Can true perfection and beauty be achieved? All of these questions will be answered in part by a vast array of authors and creators. Throughout this course one can expect to survey government, mythology, worship of ancient people, geographical significance, and a general look at Classical Greece's effect on the modern world. Welcome aboard and I leave you with this Greek proverb, “A society grows great when old men plant trees whose shade they know they shall never sit in.”

MODERN/YOUNG ADULT LITERATURE 11-12

Semester

Prerequisites: English 9 and a semester of English 10

Young Adult and Modern Literature are the stories that shape generations. This course will explore contemporary voices and themes found in young adult and modern fiction, examining how these works reflect identity, relationships, and the challenges of growing up in today's world. Students will read and discuss a range of novels and short stories from diverse authors and perspectives. Class writing may include, but is not limited to, literary analysis, personal reflections connecting to the texts, and research into modern social or cultural issues. This course will also include opportunities for creative projects and active discussion.

Sports Literature 10-12

Semester

Sports Literature is a language arts class that will allow students to examine the crossroads between literature and sports. Students will consider the following questions: What role does the game play in modern storytelling? What knowledge is presumed about the reader's understanding of the game? Does literature have anything to say about the game and its players or are sports a backdrop to tell the reader the story? Students in this course will compare sports and storytelling through a variety of mediums, including: short stories, novels, nonfiction texts, and cinema.

Creative Writing 11-12

3 college credits

Semester

This course is an advanced writing workshop, covering at least two of the major genres (fiction, poetry, drama, creative non-fiction). Emphasis is placed on elements of craft-including tone, voice, perspective and setting-as well as practices required to be a successful writer, including drafting, revision, and the establishment of a writing routine. The learning experienced is enhanced through class discussion and critical analysis of published authors as well as workshops of student writing.

Intro to Literature 12

3 college credits

Semester

This course is an introduction to the major literary genres: the short story, poetry, drama, and the novel. Emphasis is placed on formal, thematic, historical, cultural, and critical elements of literature, as well as the relationship between literature and the human condition. *This course satisfies a general education requirement in the Arts and Humanities Area.*

Foreign Language

Spanish I - 9-12 *recommended

Year

The students practice reading, writing, listening, and speaking through various units. The units include stories, songs, reading, writing, listening, and speaking activities, along with a test after each unit. The material presented in each unit will help students focus on communication skills along with learning about culture.

Spanish II - 10-12 *recommended

Year

The students practice reading, writing, listening, and speaking through various units. The units include stories, songs, reading, writing, listening, and speaking activities, along with a test after each unit. The material presented in each unit will help students focus on communication skills along with learning about culture. Through continual practice and application, students will enhance their knowledge of the Spanish language.

Spanish III - 11-12

Year

The students practice reading, writing, listening, and speaking through various units. The units include stories, songs, reading, writing, listening, and speaking activities, along with a test after each unit. The material presented in each unit will help students focus on communication skills along with learning about culture. New tenses will also be introduced throughout the units. Through continual practice and application, students will enhance their knowledge of the Spanish language. Students who are on a 4-year track are encouraged to take this course.

Spanish IV - 12

Year

The students practice reading, writing, listening, and speaking through various units. The units include stories, songs, reading, writing, listening, and speaking activities, along with a test after each unit. The material presented in each unit will help students focus on communication skills along with learning about culture. New tenses will also be introduced throughout the units. Through continual practice and application, students will enhance their knowledge of the Spanish language. Students who are on a 4-year track are encouraged to take this course.

Social Studies

Middle School Courses:

7th Grade - Geography

Geography courses provide students with an overview of world geography, but may vary widely in the topics they cover. Topics typically include the physical environment; the political landscape; the relationship between people and the land; economic production and development; and the movement of people, goods, and ideas.

8th Grade - American History

U.S. History provides students with an overview of the history of the United States, examining time periods from discovery or colonialism through World War II or after. These courses typically include a historical overview of political, military, scientific, and social developments. Course content may include a history of the North American peoples before European settlement.

Required Courses:

American History- 9 *required

Year

Over the course of the year, students will learn about America's history and how our past events have helped shape America into what it is today. Students will examine events such as Reconstruction, the Gilded Age, the Progressive Era, WWI, the Roaring 20s, the Great Depression, WWII the Cold War, and many other aspects of American History. Within these time periods students will analyze social, economic, and political effects had on American Society. Students will also analyze a wide range of primary and secondary sources and determine their credibility and connection to historical events.

World History - 10 *required

Year

Over the course of the year, students will learn about the foundations of early civilization and examine how humans have grown and interacted throughout history. Students will dive into civilizations and time periods such as the Indus Valley, Mesopotamia, Ancient Greece, Ancient Rome, China, the Mongols, the Middle Ages, the Renaissance and Reformation, and early modern World History. Within these units, students will look at various belief systems, cultures, arts, culture and technology that these civilizations contributed to our world today. Students will also analyze a wide range of primary and secondary sources and determine their credibility and connection to historical events.

American Government/Economics - 12 *required

Year

This course is required for graduation. American Government/Economics is a one year course. The US Constitution, foundations of American Government, and the three branches of government will all be covered. The purpose of second semester Economics will be to introduce the student to the fundamentals of economics. Units will focus on Cost-Benefit Analysis, Supply and Demand, and Economic Indicators.

Elective Options:

Psychology - 9-12

Semester

This course is designed to introduce the student to the basic concepts and theories in psychology today. We evaluate thinking behavior from 4 different psychological perspectives: biological, cognitive, behaviorist, and sociocultural. Students can expect to be challenged to think like a psychologist, participate in experiments, and create their own psychological experiment.

Sociology - 9 - 12

Semester

This course is the study of human behavior and groups in society. The study of sociology helps answer the questions we have about our relationships with others. Sociology will help the student understand the issues and problems we face in our society today. Sociology will have an emphasis on human relations skills, critical thinking skills, problem solving and decision making, and written and verbal communication.

Modern American History - 10-12

Semester

Over the course of the year students will learn about America's history and how our past events have helped shape America into what it is today. Students will examine events post WWII such as the Cold War, the Korean War, the Civil Rights Movement, Vietnam, and many other aspects of American History that have had a major impact leading up to our modern day. Within these time periods students will analyze social, economic, and political effects they had on America. Students will also analyze a wide range of primary and secondary sources and determine their credibility and connection to historical events.

Global Issues - 10-12

Semester

Students will use inquiry skills and examine historical perspectives to understand current political, economic, and social issues facing our world. Students will explore topics such as; global relationships, world economies, resource utilization, environmental issues, and other current world issues. Students will develop compelling questions about these topics and use inquiry skills and research to determine possible solutions or outcomes.

Intro to Law - 9-12

Semester

This semester-long course will take students through the US Constitution, our legal system, and famous court cases. Students will experience a wide range of topics. Students can expect to learn about the structure of the Constitution, Bill of Rights, our court system, how to create legal briefs, think on their feet, and construct and conduct logical discussions and arguments.

Mathematics

Middle School Courses

6th Grade

This course uses Illustrative Mathematics, which is a problem-based curriculum. Students in the 6th grade focus on active engagement with numbers by focusing on conceptual understanding, computational and procedural skills, and application to mathematical or real-world context. The 6th grade standards require students to study the following areas:

7th Grade

This course will provide an in-depth presentation of the prerequisite skills concepts and problem solving processes needed to help students become comfortable with and be successful in subsequent math courses. This course will also develop basic mathematical skills and introduce students to practical problems which are relevant to everyday living. The topics covered in this course include: addition and subtraction, multiplication and division operations with decimals, fractions, and integers, number theory, ratios and percents, geometry, measures, area and volume, squares and square roots.

8th Grade

This course will provide an in-depth presentation of the prerequisite skills concepts and problem solving processes needed to help students become comfortable with and be successful in high school math courses. This course will also develop basic mathematical skills and introduce students to practical problems which are relevant to everyday living. The topics covered in this course include: addition and subtraction, multiplication and division operations with decimals, number theory, operations with fractions, integers, sentences with integers, ordered pairs and linear graphing, rational numbers, ratios and percents, geometry, measures, area and volume, squares and square roots.

Required Courses:

Pre-Algebra (9) *required or Algebra I

Year

This course will provide an in-depth presentation of the prerequisite skills concepts and problem solving processes needed to help students become comfortable with and be successful in algebra. This course will also develop basic mathematical skills and introduce students to practical problems which are relevant to everyday living. The topics covered in this course include: addition and subtraction, multiplication and division operations with decimals, number theory, operations with fractions, integers, sentences with integers, ordered pairs and graphing, rational numbers, ratios and percents, geometry, measures, area and volume, probability, squares and square roots.

Algebra I (8-12)*required or Pre-Algebra

Year

Algebra I is designed to develop logical thinking and to expand the knowledge of mathematical principles. The course emphasis is placed on problem solving. The objective is to give the students a better knowledge of the number system. The familiar concepts of arithmetic and previously introduced algebraic concepts are consistently used to introduce new concepts. An attempt is made to establish the necessary manipulative skills of algebra and to improve needed skills in arithmetic. Topics include statistics (mean, median, etc), introduction to functions (exponential and quadratic), and solving linear equations with two variables and their graphs.

Geometry (9-12) required

Year

This course is developed to introduce the fundamental concepts of geometric skills and to apply the understanding of geometric concepts to real life situations. Geometric concepts are introduced intuitively by drawing upon students past experience with geometry in real life. Topics to be covered include: geometric constructions, congruence and similarity, right triangles and trigonometry, circles, and geometric measurements and dimensions.

Algebra II - 10-12 required

Year

This is a follow-up course for students who have been introduced to geometry and algebra I. It is a necessary course for practically all technical and many professional careers. Topics to be covered include: first and second degree algebraic functions, logarithmic and exponential functions, real and complex numbers, trigonometric functions, and a complete treatment of factoring. Students should see a Guidance Counselor while taking Algebra II to discuss college level courses.

Elective Options:

Pre-Calculus - 11-12

Year

A course designed to give students the necessary background to succeed in college and many technical school training programs. Any student who has completed Algebra II needs this course to solidify concepts already introduced and to continue growth in logic analysis. Topics will include polynomial and rational functions, exponential and logarithmic functions, trigonometric functions and the unit circle, matrices, and conic sections.

Calculus - 12

Year

This course is designed for seniors who wish to take the advanced placement calculus exam. Topics to be covered include limits, derivatives and techniques of differentiation and integration. This year-long course will cover approximately one and one-half semesters of college calculus.

Statistics - 12

Semester

This course emphasizes an understanding and appreciation of statistical ideas and their impact on many different fields of study. The course will cover topics in producing and organizing statistical data, probabilistic thinking and statistical inference.

College Prep Math 12

Semester

College prep math will prepare students for postsecondary mathematics courses and college placement tests, like the ALEKS test. Content focuses on a review of arithmetic operations, algebra, and trigonometry skills. Topics include but are not limited to: numerical operations, algebraic expressions & functions, exponents, linear functions, quadratic functions, and trigonometric functions.

Sciences

Middle School Courses:

6th Grade

This course leads students through standards in each science domain including physical science, life science, earth and space, and engineering. The year begins with foundational learning around particles and particle motion and builds to larger scale systems.

7th Grade

7th Grade Science is a combination of the three main science disciplines of physical science, earth science, and life science, with a focus on developing science practices such as conducting investigations, creating models, and developing scientific arguments. The curriculum aligns with the Iowa-adopted Next Generation Science Standards (NGSS). Standards covered in seventh grade include the geologic history of Earth, the solar system, forms of energy & energy transfer, energy flow in organisms and ecosystems, interactions in ecosystems, plant and animal reproduction, and genetics.

8th Grade

8th Grade Science is a combination of the three main science disciplines of physical science, earth science, and life science, with a focus on developing science practices such as engineering process, creating models, and analyzing data. The curriculum aligns with the Iowa adopted Next Generation Science Standards (NGSS). The standards covered include fossil records, water cycle & weather, types of energy, force and motion, natural and artificial selection.

Required Courses:

Biology 9 *required

Year

This course is a general review of the study of life and the environment surrounding it. The class starts off by talking about the smallest components of life (microscopic) and works its way up to the macro-scale (evolution and ecology).

This course includes a study of living organisms and vital processes. Themes that will be covered in this course includes scientific skills, ecology, biochemistry, cellular processes, genetics, evolution, classification of organisms, as well as photosynthesis & cellular respiration

Earth Science/Physics 1-10 *required

Year

Earth and Space Science focuses on the structure and development of the Earth and its environment over time including the formation of the universe and Earth's place in space. The course is composed of segments from Geology and Astronomy

This course focuses on physical science. The scientific process is used throughout the year with students developing laboratory skills and techniques through discovery-oriented experiments. The curriculum includes the study of atoms and bonding, chemical reactions, Newton's laws of motion, potential and kinetic energy, and mechanical and electromagnetic waves.

Chemistry 11 required

Year

This course is concerned with the study of the relationship between the structure of substances and the properties they exhibit. The student will learn most of the basic concepts of chemistry and also gain much practice and skill in the handling of the calculations and mechanics of chemistry. Some reasoning ability is a must and a strong background in mathematics is recommended (especially algebra). Subjects that will be covered in depth include: the periodic table, covalent and ionic bonding, balancing chemical equations, stoichiometry, acids & bases, and nuclear reactions.

Elective Options:

Advanced Physics 12

Year

This is an advanced technical course designed to help us understand the physical world around us. It develops practical concepts to help one understand how mechanical and electronic devices, that are a part of our everyday lives, operate. It is also a necessary background course for many technical and professional fields using the concepts already developed in algebra and geometry.

Anatomy/Physiology 11-12

Semester

This course focuses on the regions of the body, body planes, academic language referring to the body and the 11 body systems.

Astronomy 10-12

Semester

Astronomy courses offer students the opportunity to study the solar system, stars, galaxies, and interstellar bodies. These courses usually introduce and use astronomical instruments and typically explore theories regarding the origin and evolution of the universe, space, and time.

Forensics 11-12

Semester

Students will learn the methodology needed to evaluate a crime scene, the proper lab mechanics needed to evaluate evidence, and how to compare between the known and unknown. Students will learn how evidence and forensic tests can be used to solve a crime. Topics include but are not limited to: Trace evidence, Fingerprinting, Footprints, Tire tracks, DNA, Blood spatter, Drugs and toxins, Ballistics. Each topic will be briefly presented followed by more in depth investigations, laboratory experiments, and activities. Students should expect a hands-on approach to problem solving and learning. Assessments after each unit of study will include a lab practical. This course, while scientifically based, deals with some grim crimes that unfortunately occur in our society. Some of these topics require a mature frame of mind. It is the intent of criminalistics to bring justice to the victims of such crimes and disrespect in any way will not be tolerated.

*This course can be taken to fulfill the 4th year of math requirement

STEM 360 10-12

Semester

STEM 360 is a student driven course where students develop skills and gain more knowledge in order to solve complex and difficult, real-world problems. Students will be required to learn about STEM; science, technology, engineering, and math, and incorporate it into their learning and quest at solving their problem. The goal of this course is to produce solutions in order to better the world in which you live.

*This course can be taken to fulfill the 4th year of math requirement

Computer Science Principles 9-12

Semester

Computer Science Principles introduces students to the foundational concepts of computer science and challenges them to explore how computing and technology can impact the world. The following units of study will be covered; Digital Information, The Internet, Intro to App Design, Variables, Conditions, and Functions, Lists, Loops, and Traversals, Algorithms, Parameters, Returns, and Libraries, Data, Cybersecurity and Global Impacts.

Field Science 11-12

Year

Environmental Science courses examine the mutual relationships between organisms and their environment. In studying the interrelationships among plants, animals, and humans, these courses usually cover the following subjects: photosynthesis, recycling and regeneration, ecosystems, population and growth studies, pollution, and conservation of natural resources. Students will travel off campus for field experiences throughout the course of the year.

Environmental Science 11-12

Semester

Environmental Science courses examine the mutual relationships between organisms and their environment. In studying the interrelationships among plants, animals, and humans, these courses usually cover the following subjects: photosynthesis, recycling and regeneration, ecosystems, population and growth studies, pollution, and conservation of natural resources.

Paleontology : 1 semester (10th-12th) - Prerequisite of Biology

Paleontology is a lab and project-based class that examines the interactions of the biological advancement of organisms on Earth consistent with NGSS standards. Units include the geologic formation of the Earth, development of organisms over time with regards to geologic history, and natural selection based on Hardy-Weinberg Equilibrium genetics. Numerous labs are conducted to supplement in-class subject material, and projects are assigned for each unit.

Advanced Chemistry : 1 semester (12th) - Prerequisite of Chemistry

Advanced Chemistry is a lab and project-based course that extends the scope of 11th grade Chemistry. Units include chemical equilibrium, Acid base solutions, Thermodynamics, and organic chemistry. Numerous labs are conducted to supplement in-class subject material and projects are assigned for each unit.

Fine Arts

The Fine Arts Curriculum -

To aid the student in exploring and developing an appreciation of beauty, and in developing worthwhile leisure time activities for their own enjoyment, Northeast High School offers the following Fine Arts courses: Band, Choir, Basic Art, Pottery, and Painting and Drawing. These courses represent an important aspect of the total curriculum as they demonstrate the role of the arts as an essential element of culture, and guide the student toward a more liberal education. Although the above mentioned courses have not been cited in the previous “suggested courses of study,” these electives should be considered strongly in the planning of your schedule. Background and knowledge in these areas is desirable for both the college bound and the non-college bound student.

Fine Arts - Exploratory Art

6th Grade Exploratory

Year

This is an exploratory class that meets every third B-Day and lasts all year. This class helps students to understand & familiarize with a number of different *media* (graphite, colored pencil, acrylic paint, etc.) *techniques* (shading, blending, washes, texturing, etc.) & *concepts* (radial balance & design, one-point perspective, etc.). Students will also gain a beginner's knowledge of the *elements & principles of design* (line, value, color, texture, proportion, balance, pattern, movement). This class is student centered, hands on practice and promotes the production of quality artwork.

7th Grade Exploratory

Semester

This is an exploratory class that meets every B-Day for half a block (skinny), for a semester. This class helps students to understand & familiarize with a number of different *media* (graphite, colored pencil, ink, acrylic paint, etc.) *techniques* (shading, blending, washes, texturing, etc.) & *concepts* (tessellating pattern, value painting, etc.). Students will also gain a beginner's knowledge of the *elements & principles of design* (line, value, color, texture, proportion, balance, pattern, movement). This class is student centered, hands on practice and promotes the production of quality artwork.

8th Grade Exploratory

Semester

This is an exploratory class that meets every B-Day for half a block (skinny), for a semester. This class helps students to understand & familiarize with a number of different *media* (graphite, acrylic paint, etc.) *techniques* (shading, blending, washes, texturing, etc.) & *concepts* (lettering font & spacing, color scheme & paint application, etc.). Students will also gain a

beginner's knowledge of the *elements & principles of design* (line, value, color, texture, proportion, balance, pattern, movement). This class is student centered, hands on practice and promotes the production of quality artwork.

Fine Arts - Studio Art

Basic Art 9-12

Semester

This is a one semester course that will prepare students in lifetime art skills through art production, history, criticism, and appreciation. It is a prerequisite for all other high school art courses. As a basic studio orientation, students will explore both two-dimensional and three-dimensional experiences in drawing, painting, design, ceramics, sculpture, and printmaking. The elements and principles of art will be explored through a variety of media such as pencil, colored pencil, chalk, oil pastels, watercolor, tempera, acrylics, clay and sculpture mediums. Students will need to purchase a sketchbook as weekly sketches are required.

Painting and Drawing I 9-12

Semester

Basic Art is a prerequisite to this course. This is a one semester course that will concentrate on more advanced two-dimensional drawing, painting, printmaking, and design techniques using a variety of media such as pencil, charcoal, chalk, oil pastels, colored pencils, watercolor, acrylic, and more. The elements and principles of art will be explored fully and applied to all artwork along with art history, criticism, and appreciation. Students will need to purchase a sketchbook as weekly sketches are required.

Painting and Drawing II 10-12

Semester

Painting and Drawing I is a prerequisite to this course. This is an extension of Painting and Drawing I and provides the student the opportunity to work on more challenging projects at a more advanced level. Oil painting will be included in this level. Students will need to purchase a sketchbook as weekly sketches are required.

Ceramics and Sculpture I 9-12

Semester

Basic Art is a prerequisite to this course. This is a one semester course that will concentrate on more advanced, creative pottery techniques and three-dimensional sculpture. Students will gain knowledge of clay, glazes, the firing process, ceramic and sculpture artists, and a variety of 3-D sculpture media, such as plaster, wire, wood, and more. Students will need to purchase a sketchbook as weekly sketches are required.

Ceramics and Sculpture II 10-12

Semester

Ceramics and Sculpture I is a prerequisite to this course. This is an extension of Pottery and Sculpture I and provides the student the opportunity to work on more challenging projects at a more advanced level. Wheel-thrown pots will be included in this level. Students will need to purchase a sketchbook as weekly sketches are required.

Advanced Art Portfolio 11-12.

Semester

Basic Art, Painting & Drawing I, Painting & Drawing II, Ceramics & Sculpture I, Ceramics & Sculpture II are prerequisites to this course. This course is available to juniors and seniors that exhibit high interest and ability in the studio arts. Students must be self-motivated, have an ability to work independently, consider a career in art, and be approved for admission into the class by the art instructor. Course material will be selected on an individual basis according to student interest and ability. Students will need to purchase a sketchbook as weekly sketches are required.

Fine Arts - Digital Arts

Virtual Reality Education Pathfinder (VREP) is an educational initiative that offers students an opportunity to develop and expand their learning across the curriculum by capturing their interests through the use of digital art media. These classes are designed to help students become self-motivated learners with projects related to their own individual interests and later becoming mentors for their peers.

V-REP I 9-12

Semester

Virtual Reality Education Pathfinder is an introductory class that helps students familiarize themselves with the computer program Blender 3.5. Students are required to complete projects, research and design their own virtual programs, and create 2D and 3D imaging that is then transferred into stereoscopic displays to create immersive virtual environments. A majority of this class is student centered, hands on practice and production of quality art. Students will also be expected to explain and defend their work during class critiques Since this class is digital, a flashdrive (jumpdrive) is required to save work.

V-REP II 9-12

Semester

Virtual Reality Education Pathfinder is a class that helps students familiarize themselves with the computer program Blender 3.5. Students are required to complete projects, research and design their own virtual programs, and create 2D and 3D imaging that is then transferred into stereoscopic displays to create immersive virtual environments. A majority of this class is student centered, hands on practice and production of quality art. Students will also be expected to explain and defend their work during class critiques Since this class is digital, a flash drive (jump drive) is required to save work.

V-REP III & IV 10-12

Semester

(pre-requisite V-Rep I & II)

Virtual Reality Education Pathfinder is an advanced virtual reality class that requires students to combine a number of different computer programs such as Blender 3.5, Sculptris, UDK, as well as multiple Adobe Suite programs. Students are required to complete a number of different projects, research and design their own unique virtual programs, characters, games, and videos. Students will learn to create 2D & 3D imaging that are then rendered into stereoscopic displays, virtual environments, playable video games or motion-tracked videos. This class is a student centered, hands on practice class that promotes the production of quality digital art.

V-REP V & VI 11-12

Semester

(pre-requisite V-Rep I-IV)

Virtual Reality Education Pathfinder is an advanced virtual reality class that requires students to combine a number of different computer programs such as Blender 3.5, Sculptris, UDK, as well as multiple Adobe Suite programs. Students are required to complete a number of different projects, research and design their own unique virtual programs, characters, games, and videos. Students will learn to create 2D & 3D imaging that are then rendered into stereoscopic displays, virtual environments, playable video games or motion-tracked videos. This class is a student centered, hands on practice class that promotes the production of quality digital art.

Digital Photography I 9-12

Semester

This is an introduction to digital cameras and the programs associated with them. Students will learn how to shoot photos and manipulate them using the program Photoshop CS4. They will explore the elements of art, principles of design, and composition while exploring the genres of landscapes, architecture, still life, portrait & abstract ideas. Students will also be expected to explain and defend their work during class critiques. Since this class covers the use of digital cameras, a digital camera is necessary, as well as a flash drive (jump drive) to save work & 9x12 photo paper for printing. Camera phones are not acceptable.

Digital Photography II 9-12

Semester

Digital Photography I is a prerequisite. This is an advanced photography class that will continue to cover the manipulation of photos in Photoshop CS4 and the exploration of the elements of art, principles of design, and composition while exploring the genres of landscapes, architecture, still life, portrait & abstract ideas. Students will also be expected to explain and defend their work during class critiques Since this class covers the use of digital cameras, a digital camera is necessary, as well as a flash drive (jump drive) to save work & 9x12 photo paper for printing. Camera phones are not acceptable.

Fine Arts - Instrumental**Band 6**

Semester

Students who have an interest in music and who have the ability to play an instrument are encouraged to enroll in Instrumental Music. Students will learn performance and listening (aural) skills, music history, genre, basic analysis and fundamental musical knowledge. They will also learn communication, creativity, responsibility, leadership, and cooperation

through the study of this unique aspect of human culture. Group performances demonstrating these abilities include semester concert performances and various honor bands.

Band 7-8

Semester

Students who have an interest in music and who have the ability to play an instrument are encouraged to enroll in Instrumental Music. Students will learn performance and listening (aural) skills, music history, genre, basic analysis and fundamental musical knowledge. They will also learn communication, creativity, responsibility, leadership, and cooperation through the study of this unique aspect of human culture. Group performances demonstrating these abilities include semester concert performances and various honor bands.

Band 9-12

Semester

Students who have an interest in music and who have the ability to play an instrument are encouraged to enroll in Instrumental Music. Students will learn performance and listening (aural) skills, music history, genre, basic analysis and fundamental musical knowledge. They will also learn communication, creativity, responsibility, leadership, and cooperation through the study of this unique aspect of human culture. Group performances demonstrating these abilities include quarterly concert performances, IHSMA Large Group Festival, various honor bands, Jazz Band, Marching Band, and Pep Band (at home athletic events). Three years of playing a musical instrument is required.

Fine Arts - Vocal

6th Grade Music/Chorus

All 6th grade students participate in a half block of music/choir every other day. Here we continue our music literacy and performance skills that we have learned previously. Students perform twice a year at the Winter and Spring Concerts.

7th Grade Music/Chorus

All 7th grade students participate in a half block of music/choir every other day. Here we continue our music literacy and performance skills that we have learned previously. Students perform twice a year at the Winter and Spring Concerts.

8th Grade Music/Chorus

All 8th grade students participate in a half block of music/choir every other day. Here we continue our music literacy and performance skills that we have learned previously. Students perform twice a year at the Winter and Spring Concerts.

Concert Choir 9-12

This is a performance based class open to interested students in grades 9-12. Over the year, students prepare a variety of music to be performed in multiple performances such as Veteran's Day, Winter Concert, Pops Concert and Spring Concert. Students may also participate in performing the National Anthem at certain home games/meets. In addition to performing, students will focus on music literacy, and connecting/responding to the music we work on. Students in this ensemble are encouraged to audition for Swing Choir, which rehearses/performs for performances in second and third quarters.

Chamber Choir 9-12 Audition Only

Chamber Choir is a smaller but faster paced vocal team that students must audition for to be a part of. This group performs music that is more challenging than our concert choir. They perform at the Winter Concert, Pops Concert, and Spring Concert. In addition, select students from this group represent our school at the River Valley Conference Vocal Music Festival each fall. Chamber Choir students have the option of being in Concert Choir as well, and are also encouraged to audition for Swing Choir, which rehearses/performs for performances in second and third quarters.

Career and Technical Education - Business Education

The Business Education Program is intended to provide an opportunity for students to develop a basic understanding of business and marketing. The students who enroll should have an interest in pursuing a business career.

Program of Study Courses:

Financial Literacy *required

Semester

Financial Literacy is a required class for all juniors. The class focuses on developing the following skills:

- Assessing personal skills, abilities, and aptitudes for making a good “career fit.”
- College planning
- Developing expectations for workplace-related values, such as a strong work ethic, good working relationships, ability to succeed in culturally diverse environments, strong communication skills, continual skill improvement, and competence in managing one’s career.
- Allocating your resources:
 - o Savings and wealth building,
 - o Understanding investments, interest, analyzing salaries, and deductions, general personal tax information, using credit, protecting against risk, planning for retirement, and entrepreneurship.
 - o Credit and debt, including credit cards, payday lending, rent-to-own transactions, debt consolidation, automobile leasing, cosigning a loan, debt avoidance, and the marketing of debt, especially to young people.
 - o Consumer awareness of the power of marketing on buying decisions including zero percent interest offers; marketing methods, including product positioning, advertising, brand recognition, and personal selling; how to read a credit report and correct inaccuracies; how to build a credit score; how to develop a plan to deal with creditors and avoid bankruptcy; and the federal Fair Debt Collection Practices Act.
 - o Financial responsibility and money management, including creating and living on a written budget and balancing a checkbook; basic rules of successful negotiating and techniques; and personality or other traits regarding money.
 - o Insurance, risk management, income, and career decisions, including career choices that fit personality styles and occupational goals, job search strategies, cover letters, resumes, interview techniques, payroll taxes and other income withholdings, and revenue sources for federal, state, and local governments.
 - o Buying, selling, and renting advantages and disadvantages relating to real estate, including adjustable rate, balloon, conventional, government-backed, reverse, and seller-financed mortgages.

Elective Courses:

Basic Computer Applications 10-12

Semester

This is a one semester course and is a prerequisite for the college credit course (Introduction to Computers). Students will learn Microsoft Word 2021, Microsoft Excel 2021, and receive an introduction to Microsoft Access Database. Business letter formatting, email etiquette and digital citizenship. Guest speakers in computer application careers will also be included in this class. If the student earns a C or better in the class, they may enroll in the Computer Apps 1 class.

Introduction to Computers 10-12 3 hrs. college credit

Semester

Computer Applications I is a semester long course designed to make the student knowledgeable in the basics of Office 2021 applications. Units will include: Microsoft Word, Microsoft Excel, Microsoft Access and Microsoft PowerPoint. This class is composed of step-by-step lecture and guided practice materials and self-practice materials. This course serves as a prerequisite for Computer Applications II. Students earn three semester college credits from Clinton Community College when completing this course.

Basic Business Concepts 10-12

Semester

This is a prerequisite for the college credit course, Intro to Business. Students will receive an introduction to starting and growing business, management, marketing information management, and financial management information and guest speakers within each business field. If the student earns a C or better in the course, they may enroll in the Intro to Business course.

Introduction to Business 10-12 3 hrs. college credit**Semester**

This course will introduce students to the business concepts and skills required in today's marketplace. Students will gain an understanding of the business world and how to make business decisions in our global economy. This course will serve as a background for other business courses students may take in high school and in college, assist them with consumer decision-making, prepare them for future employment, and help them effectively perform their responsibilities as a citizen.

Basic Accounting Concepts 10 - 12**Semester**

This is a good course for those who want to get a job in the accounting area upon graduation from high school, as well as those planning to take college accounting courses. Accounting includes basic accounting theory and principles but places main emphasis on bookkeeping or recording phases of accounting. Some of the units covered during the year include the fundamental accounting equation, the basic steps of the accounting cycle for service and retail businesses, special problems included in the purchase and sale of merchandise, notes and interest, depreciation, accruals and prepaid items, payroll record, income tax, partnerships, and corporations.

Introduction to Accounting 10-12 3 hrs. college credit**Semester**

This is a one semester course open to all students that have completed an Intro. To Accounting. Students will be continuing to advance on the topics covered in Intro. To Accounting. This is a great course for those that plan to pursue a career in accounting or plan to take some college accounting courses. Students earn three semester college credits from Clinton Community College upon completion of this course.

Career and Technical Education - Family & Consumer Sciences**Middle School Courses:****Life Skills (7th)**

This is a one quarter exploratory course where students learn about safety and sanitation practices in the kitchen. There is an emphasis on learning proper cleaning, measuring, using kitchen tools and equipment properly. Students spend time cooking within each of the food groups. Employability skills are taught through group work in kitchens.

Program of Study Courses:**Foods & Nutrition I 9-12****Semester**

Foods & Nutrition I is a semester course open to all students grades 9-12. It is a prerequisite for all other foods classes. The course includes a study of nutritional needs, portion sizes, label reading, measuring, recipe reading, recipe conversions, kitchen tools and equipment, and cooking. Students will study and prepare a variety of foods including: eggs, dairy, meat, fruits, and vegetables. This is an excellent course to prepare you for cooking for yourself and your family. It is also the first course in a three year sequence in occupational food production and services.

Regional Foods 9-12**Semester**

Regional Foods is open to all students 9-12 who have completed Foods & Nutrition I. Semester. (1,2) Students will study the history and culture of foods and prepare a variety of foods from different regions of the United States and other countries. Emphasis will be placed on technology, recipe adjustment, meal planning, budgeting for healthy food, and making healthy food choices. Students will learn to make foods within the following units: grains & pasta, nuts, seeds, legumes, poultry, and quick cooking. It is an excellent course to prepare for living on your own, shopping for groceries within a budget, and cooking.

Food Production I 10-12**Semester**

Food Production I is a semester course open to students who have completed Fundamentals of Baking or at the discretion of the instructor. Students will study professional food preparation techniques. They will explore the opportunities available in

food preparation and service careers. Emphasis will be placed on safety & sanitation, professional cooking techniques, knife skills, career opportunities, and controlling costs. Students will spend a lot of time preparing food.

Food Production II 10-12

Semester

Food Production II is open to students who have successfully completed Food Production I. This course continues to study professional food preparation techniques. An emphasis will be placed on safety & sanitation, career opportunities, professional cooking techniques, planning menus while controlling costs and plating & garnishing. During the course, students will prepare for certification in Serve Safe and may become certified upon successful testing. A wide variety of foods will be cooked in this course. Students will spend a lot of time preparing food.

Fundamentals of Baking 10-12

Semester

Fundamentals of Baking is open to all students 10-12 who have completed either Foods & Nutrition II or Regional Foods. Semester. (1,2) Students will study the basics of baking yeast breads, sweet breads, cakes, tarts, pies, pastries, and other desserts. Emphasis will be placed on technology, culinary techniques, adjusting recipes, using healthy substitutions, and plating and garnishing.

Personal Finance 9-12

Semester

Personal Finance is to prepare you for handling your finances on your own. You will study a variety of topics that will help you make financial decisions based on your needs and goals. Topics include: choosing bank accounts, how to write smart financial goals, creating plans to achieve these goals, banking basics, income & employment, budgeting, credit & debt management, consumer skills, financing higher education, and insurance.

Career and Technical Education -Agriculture Education

The Agriculture Education Program is intended to provide an opportunity for students to develop a basic understanding of agriculture. The students who enroll should have an interest in pursuing an agricultural career. Students enrolling in Agriculture Science and Technology are expected to develop a Supervised Agricultural Experience Program and become a member of the Northeast FFA Chapter.

Middle School Courses:

Exploratory Ag (8)

Quarter

This course is an exploratory agriculture class that meets every other day for a quarter. Students are truly learning the goal of agriculture, which is to feed and clothe the world. By 2050 there are going to be an extra 2 billion mouths to feed with the same amount of land resources we currently have. What can you do to help this? This course is a very basic agriculture class to help improve agriculture literacy. This class offers hands-on learning, career exploration and collaboration with others to learn about what agriculture is, the sustainability practices we must all utilize and why it is important for EVERYONE to learn about it.

Program of Study Courses:

Ag Science I (9-12)

Year

This course is an introductory course in Agriculture Education and is designed for students who have an interest in agriculture, food, and natural resources. Interested upperclassmen may also enroll. The major emphasis of Ag Science I is FFA, parliamentary procedure and animal science. Subject matter areas include: FFA, swine production, sheep production, dairy production, beef production, emerging ag technology, farm and ag business record keeping, leadership development, and career opportunities in agriculture.

Ag Science II (10-12)

Year

This course is designed to be a continuation of Ag Science I. Students continue to build off of their FFA knowledge, leadership skills and SAE projects. This course could also include topics such as: plant and crop science, horticulture, soil science, conservation, farm safety, emerging ag technology, parliamentary procedure, and even natural resources.

Elective Courses:

Animal Science (10-12) (prerequisite Ag. Science I)

Semester

Animal Science is a course open to any students who have completed Ag Science I. This course is intended to teach animal nutrition, animal reproduction, genetics, livestock health, meat identification and composition, SAE project records, and aquaculture.

Agriculture Occupations (11-12) (prerequisite Ag Science I)

Semester

This course will focus on gaining the skills needed to attain a career, specifically in agriculture. Students will create a resume, work on job interviewing skills, tour local agriculture businesses in the area, meet local agriculture professionals, and also continue their SAE project record books.

Horticulture 10-12 (prerequisite Ag Science I)

Semester

Horticulture is a course which is open to all students in grades 10 -12. Horticulture will be a laboratory based class in which the majority of the class will take place in the greenhouse. The subject emphasis will be on careers in Horticulture, tours and/or connections with local Horticulture businesses or professionals in the area, plant growth and propagation, introduction to turfgrass management, and greenhouse management

Floral Design - 10-12

Floral Design is a hands-on course that introduces students to the principles and techniques of floral arrangement, design styles, and the floral industry. Students will explore the artistic, business, and scientific aspects of floral design while creating seasonal arrangements, corsages, and bouquets. This course blends creativity with horticultural knowledge, helping students develop skills in color theory, plant care, event planning, and floral marketing. Throughout the term, students will work with fresh, dried, and artificial flowers, learn proper handling and storage techniques, and gain experience in pricing, sales, and customer service within the floral industry.

Agronomy 10-12 (prerequisite Ag Science I)

Semester

This course will cover the plant side of agriculture focusing mostly on crop production and soils. Crops such as corn, soybeans, small grains, alfalfa and specialty crops will all be explored in depth. Students will learn about how plants grow, what plants need to grow, and how people alter normal plant growth. Students will enjoy making connections between the seed, field and food. Each student will be required to have a Supervised Agricultural Experience (SAE) project.

Farm Business Management (11-12) (prerequisite -- Ag Science 1)

Semester

This course has an emphasis on Entrepreneurship. The students will develop their own product or business ideas and learn about the process of starting their own business. The subject matter can also include financial knowledge, marketing, business plan development, SAE project record books, and learning from agricultural business professionals in the area.

Agricultural Leadership (9-12) (1) (2)

Semester

This course helps students develop leadership skills with a focus on opportunities in the food, fiber, and natural resources industries. Topics may include but are not limited to human relationships and effective communication, decision making and problem-solving, leadership qualities and styles, and ensuring successful completion of group activities.

Vet Science (10-12) (alternating in spring semesters)

Semester

A high school vet science class introduces students to animal health, medicine, and careers in veterinary fields, covering anatomy, physiology, nutrition, diseases,

parasitology, handling, restraint, and basic clinical/surgical skills for domestic, livestock, and exotic animals, often with hands-on labs and potential work-based learning to prepare for post-secondary education or careers.

Animal Science 2 10-12 (alternate this with Vet Science in the Spring Semester)

Animal Science II is an advanced, hands-on course designed for students who want to deepen their understanding of livestock species and the science behind modern animal agriculture. This class explores the anatomy, physiology, behavior, nutrition, genetics, health, and production practices related to cattle, swine, sheep, goats, horses, and poultry. Students will build real-world skills through labs, record-keeping, facility design challenges, and utilize the large life-size animal statues for enhanced learning. Each student will be required to have a Supervised Agricultural Experience (SAE) project.

Career and Technical Education Construction Technology

Middle School Courses:

8th Grade Exploratory 8

This course provides all students with the basic foundation of skills needed in future manufacturing courses. Students will learn the basics of drafting and building a designed project.

High School Courses:

Welding 9-12

Semester

Welding is a course which is set up to give students a general understanding of metals as it applies to today's industry. Content to be covered will include basic welding, basic oxy-acetylene operation and project construction. Enrollment is limited to 10 students.

Welding 2 9-12

Semester

Building upon Welding I, Welding II emphasizes welding in all positions. As well as, reading and following plans, quality inspections, and overall connection to the workplace. Students will use a CNC Plasma table. Students will gain knowledge about fabrication and design.

DC Electricity 9-12

Semester

The principles of electricity will be emphasized in this course covering the basic concepts of power sources, Ohm's law, power consumption, and Power Law. Typical classroom activities will include topic discussion followed by experiments. Students will develop skills in using power supplies and analyzing equipment. Algebra basic background is suggested, but not required.

Construction Drafting - 9-12

Semester

Drafting is a universal industrial language which is used to change abstract ideas into graphic information that can easily be understood. Emphasis in general drafting will be on basic drafting techniques, types of drawings, and developing "graphic

visualization.” Students will end the semester with the ability to create architectural/residential construction blueprints. This class starts on traditional drafting boards, and ends the semester with softwares like AutoCAD and Revit.

Introduction to Manufacturing 10-12

Semester

Introduction to Manufacturing is intended to give exposure to manufacturing principles. Concepts of industrial processes, materials, marketing, and product construction are supplemented with “hands on” activities.

Construction Tech 1 9-12

Semester

Previously named Woods I, this is a woodworking course designed to introduce students to general woodworking practices and safety. Students will expand their knowledge of wood identification, characteristics, pricing, joints/fasteners, sand and abrasives, and finishes. Students will also gain experience through various projects, lessons and vocabulary. Students will be expected to learn about and safely use hand tools, power tools, and woodworking machinery. Projects in this course are designed to give students as much experience as possible by encompassing different machines and tools.

Construction Tech 2 9-12

Semester

Based on residential construction, this course is an introduction to basic building materials, construction terminology and components, general methods and sequences. This course focuses on safety and insight to a real life construction site. There is an emphasis on both the proper use and care of both hand and power tools. Students will gain entry level skills and experience related to construction; as well as, an overview of career opportunities and related trades.

Construction Tech 3 10-12

Semester

Based on residential construction, this course extends students' knowledge and experience beyond the basics. Safety and Building Science are the foundation of this class with an emphasis on improving the quality of living in new construction homes. Students will gain knowledge about the historical methods of building, modern building science, and gain experience through hands-on building.

Physical Education and Health

Middle School Courses:

6th Grade

Co-ed physical education classes will offer a variety of activities with recreational/leisure time activities being stressed. A choice of several different activities will be available during each three, four or five week unit. Some of the activities that will be offered for the classes include: football, tennis, bowling, exercising, jogging, weight lifting, floor hockey, golf, and various other team and individual sports.

7th Grade

Co-ed physical education classes will offer a variety of activities with recreational/leisure time activities being stressed. A choice of several different activities will be available during each three, four or five week unit. Some of the activities that will be offered for the classes include: football, tennis, bowling, exercising, jogging, weight lifting, floor hockey, golf, and various other team and individual sports.

8th Grade

Co-ed physical education classes will offer a variety of activities with recreational/leisure time activities being stressed. A choice of several different activities will be available during each three, four or five week unit. Some of the activities that will be offered for the classes include: football, tennis, bowling, exercising, jogging, weight lifting, floor hockey, golf, and various other team and individual sports.

Required Courses:

PE 9-12

Semester

Co-ed physical education classes will offer a variety of activities with recreational/leisure time activities being stressed. A choice of several different activities will be available during each three, four or five week unit. Some of the activities that will be offered for the classes include: football, tennis, bowling, exercising, jogging, weight lifting, floor hockey, golf, and various other team and individual sports. Physical Education is counted as part of the student's grade point average.

Health 9 - 12 *9th grade requirement

Semester

This is a course that is designed to help examine their state of total physical, mental/emotional, social well being, not just freedom from sickness and ailments. Health education is providing such information that can influence people to have choices about attitudes that they can make positive action(s) about their own health and the health of others. Health is about gaining the tools to achieve and maintain total well being. It is our goal to help young people live long, zestful, and productive lives.

Elective Courses:

Health 2 9 - 12

Semester

This is a course that is one semester in length and is an elective for all 10th – 12th grade students. Its purpose is to provide you with the knowledge and health skills that will have a continuing importance for a lifetime. In addition, the course incorporates many resources to help every student succeed in achieving health literacy. This class develops skills that you can use in medical emergencies including: CPR & AED, choking, diabetic emergencies, seizures. We also focus on athletic care and prevention practices. There is also a focus on hearing from health care professionals who graduated from Northeast to talk about their journey since leaving Northeast.

Rebel PE 9-12

Semester

A PERFORMANCE Physical Education course where students will actively participate in exercises that improve Speed-Power-Strength. This is done through full body workouts, plyometrics, and speed training. Throughout this course students will learn specific movements patterns that will develop them into a more proficient lifter and mover. They will also be taught gym etiquette. This class will work as a stepping stone into adulthood and ensure an active healthy lifestyle.

Other Areas

Driver's Education 8,9,10

Spring/Summer/Fall

This course provides the student with proper defensive driving techniques. Areas of emphasis will include: attitude, technique, & driving skills. This course will also acquaint the student with the laws, signs, and regulations involved in driving in Iowa. Some of the driving skills involved are: backing, passing, parallel and angle parking, city-highway-gravel road, winter driving, and emergency situations. Driver Education is offered by Triple R Driving School. Fee varies depending on when the course is offered.

Guidance

6th Grade Guidance

Students will explore self awareness that includes understanding their strengths, challenges, and building self-esteem and self -confidence. Cultivating a growth mindset, practicing good

hygiene, taking care of positive mental and physical health, and social media awareness are age appropriate topics discussed in this class.

7th Grade Guidance

Concepts in this class include responsible decision making, social awareness, conflict resolution skills, coping with academic and personal stress, and effective communication skills. Exploring the different impact of influences on students' lives is discussed.

8th Grade Guidance

8th grade students will be instructed on how to successfully transition to high school. Students will learn about graduation requirements, class offerings through the registration guide, and matching interests to class choices/career paths. Students will also learn about healthy relationships and the importance of understanding the need to take care of their mental health including how to seek out resources related to supporting their needs.

Work Based-Internship

Work Based Internship (12 grade)

Semester

12th grade students, who have developed a career goal and taken appropriate foundation courses, may apply for a 2 credit non-paid, Work-Based Internship placement. An elective credit(s) will be offered for each Career Pathway as outlined in the Course Catalog. A Work-Based Internship placement will require the student to work for a minimum of 45 (1 credit) or 90(2 credits) hours per semester at a worksite. Work-Based Internship students will learn many different functions and aspects of the employer's business. Application for Work-Based Internship placement must be made before the end of the preceding school year. Students interested in the option may obtain more information from the Guidance Office of the Work-Based Internship office. Work-Based Internship placement may be limited by availability of cooperating employers, nature of work environment, and student schedule needs.

It is the policy of the Northeast Community School not to illegally discriminate on the basis of race, color, national origin, gender, gender, disability, religion, creed, age (for employment), marital status (for programs), sexual orientation, gender identity and socioeconomic status (for programs), in its educational programs and its employment practices **as required by the Iowa Code, sections 216.9, 256.10(2) and 19B.11, Titles VI and VII of the 1964 Civil Rights Act (42 U.S.C. § 2000d and 2000e), the Equal Pay Act of 1973 (29 U.S.C. § 206, et seq.), Title IX (Educational Amendments, 20 U.S.C. § § 1681-1688), Section 504 (Rehabilitation Act of 1973, 29 U.S.C. § 794), the Americans with Disabilities Act (42 U.S.C. V 12101, et seq.), and Section 601A of the Iowa Code.** There is a grievance procedure for processing complaints of discrimination. If you have questions or a grievance related to this policy please contact the district's Equity Coordinator: Neil Gray, Superintendent, Northeast Community School District, Goose Lake, Iowa 52750, Telephone (563) 577-2249, (neil.gray@northeastcsd.org), **to the Director of the Iowa Civil Rights Commission, Des Moines, Iowa, or to the Director of the Midwest Office of Civil Rights, Department of Education, Chicago, Illinois.**

Request for an Academic Waiver from Physical Education

Complete the form below to request an academic waiver from physical education. This request for an excusal must be submitted to the principal and will be reviewed by the counselor.

Name of Student: _____ Grade: _____

_____ School Year

We are requesting an academic waiver from physical education and the student requesting is enrolled in at least eight academic credits for both semesters.

Requirement: The 9-12 student is enrolled in at least 8 academic credits.

Semester 1

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____

Semester 2

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____

If the student drops below 8 academic credits in a semester, the student would then have to re-enroll in PE. If an in person PE class is not available during the block, the student will be required to be in an online PE.

Student Signature

Parent Signature

For Office Use Only:

_____ Approved

_____ Denied ___ past deadline ___ missing documentation ___ doesn't meet requirements

Counselor Signature

Principal Signature

Request for a Medical Waiver from Physical Education

Complete the form below to request a medical waiver from physical education. This request for an excusal must be submitted to the principal and will be reviewed by the counselor and school nurse.

Name of Student: _____ Grade: _____

_____ School Year _____ First Semester _____ Second Semester

We are requesting a medical waiver from physical education or specific activities in PE due to the following health concerns:

Requirement: The request for medical excusal must include a letter from a healthcare provider documenting the need for medical excusal, including the duration of the excusal. If the student is requesting excusal from specific activities, the letter must list those activities and/or provide allowable activities.

Student Signature

Parent Signature

For Office Use Only:

_____ Approved _____ Date Reviewed by School Nurse

_____ Denied _____ past deadline _____ missing documentation _____ doesn't meet requirements

Counselor Signature

Principal Signature

Request for an Athletic Activity Waiver from Physical Education

Complete the form below to request an athletic activity waiver from physical education. This request for an excusal must be submitted to the principal for approval and will be reviewed by the counselor.

Name of Student: _____ Grade: _____

_____ School Year _____ First Semester _____ Second Semester

Requirement: The 9-12 student is participating in an organized and supervised athletic program which requires at least as much participation **per week** as a unit of physical education during the semester.

- (1) Interscholastic athletics sponsored by the Iowa High School Athletic Association or Iowa Girls High School Athletic Union; Northeast cross country, football, volleyball, basketball, wrestling, track, golf, soccer, baseball or softball.
- (2) School-sponsored marching band, show choir, cheer, or similar activities; (3) Nonschool gymnastics, dance, team sports, individual sports; or
- (4) Similar endeavors that involve movement, manipulation, or exertion of the body.

We are requesting an athletic activity waiver from physical education based on these programs:

Organized Activity	Activity Supervisor	Duration of Activity	Minutes per Week

If the activity requested is not a school sponsored activity, include the contact information for the supervisor of the activity and attach a copy of the program schedule.

Nonschool Supervisor Contact _____

If a student withdraws from the activity, then the student would need to re-enroll in a physical education class. The principal will inform the superintendent of the excusal if approved.

Student Signature

Parent Signature

For Office Use Only:

_____ Approved

_____ Denied ____ past deadline ____ missing documentation ____ doesn't meet requirements

Counselor Signature

Principal Signature

