

Course Guide NFV 2025-2026

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This course description guide is provided to help in the selection of high school education. When picking your classes, we urge you to together a schedule that challenges you and meets graduation prepares you for your future education and career. If you have the classes listed in this guide, please contact either the high school advisor, or speak with the teacher who teaches the specific course

classes to complete your select courses to put requirements, as well as further questions about counseling office, your in question.

Credit and Graduation Requirements

Total Credits Required: **50**

Credits Required Per Semester: 6.5 credits per semester (minimum)

Required Credits:	English	8
<u>Required:</u>	<i>English I-</i>	<i>2 Cr.</i>
	<i>English II/Speech - 1</i>	<i>Cr.</i>
	<i>English II-</i>	<i>1 Cr.</i>
	<i>English III -</i>	<i>2 Cr. (Class of 2027+)</i>
	<i>Junior/Senior Electives-</i>	<i>2 Cr.</i>
	Social Studies	6
<u>Required:</u>	<i>U.S. History</i>	<i>2 Cr.</i>
	<i>World History-</i>	<i>2 Cr.</i>
	<i>Government-</i>	<i>1 Cr.</i>
	<i>S.S. Elective-</i>	<i>1 Cr.</i>
	Mathematics	6
<u>Required:</u>	<i>Math Credits-</i>	<i>5 Cr.</i>
	<i>Financial Literacy-</i>	<i>1 Cr.</i>
	Science	6
<u>Required:</u>	<i>Unified Science-</i>	<i>2 Cr.</i>
	<i>Biology-</i>	<i>2 Cr.</i>
	<i>Chemistry or Applied Chemistry-</i>	<i>2 Cr.</i>
	P.E.	4
	Health	1
	Capstone	1
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Other Requirements: Junior Job Shadow; CPR

North Fayette Valley Community School District Equity Statement

North Fayette Valley Community School District, and North Fayette Valley High School, does not discriminate on the basis of 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 in its educational programs or employment practices. Any person having inquiries concerning the school district's compliance with the regulations implementing Title VI, Title VII, Title IX, the Americans with Disabilities Act (ADA), 504, or Iowa Code 280.3 is directed to contact the district's Equity Coordinator at 563-422-3852.

HIGH SCHOOL COURSE DESCRIPTIONS

LANGUAGE ARTS – 8 credits required

Students are required to take four (4) years or eight (8) credits of language arts classes to meet graduation requirements. All students are required to complete: English I; English II/Speech, and English II; English III (**Starting with class of 2027**). During their senior year, students can choose from available electives.

REQUIRED COURSES:

English I – (Year) English I builds upon students' prior knowledge of grammar, vocabulary, word usage, and the mechanics of writing and usually includes the four aspects of language use: reading, writing, speaking, and listening. This course introduces and defines various genres of literature, with writing exercises linked to reading selections.

English II/Speech – (Fall Semester) Speech enables students, through practice, to develop communication skills used in a variety of speaking situations (such as small and large group discussions, delivery of speeches in front of audiences). Communication topics include verbal and nonverbal communication, perception, listening, and interpersonal communication. Speech topics include the development of self-confidence, managing communication apprehension (stage fright), writing for verbal delivery, stylistic choices, visual and presentation skills, researching and organizing, outlining, presenting, and analysis, critique and evaluating different types and purposes for public speaking. Speeches presented include introduction, demonstration, informative, persuasive, sales, impromptu, literature interpretation, and special occasion.

English II – (Spring Semester) English II offers a balanced focus on composition and literature. Students learn about the alternate aims and audiences of written compositions by writing creative and expository multi-paragraph essays. Through the study of various genres of literature, students can improve their reading rate and comprehension and develop the skills to determine the author's intent, theme or central idea and to recognize the techniques used by the author to deliver his or her message. This course covers various genres of literature, with writing, vocabulary and grammar exercises linked to reading selections.

English III – (Class of 2027+) This course will combine both a comprehensive study of American literature from early America to modern day and a focus on writing skills needed both in post-secondary education and in the workplace. Students will read various texts, explore connections within texts, and respond in writing in order to more deeply analyze and understand American literature. Major writing assignments will include the following: descriptive writing, nonfiction narration, exposition, argumentative writing, research writing, and literary response. Acquiring comprehension strategies and enhancing written communication skills will be major focuses of the course.

JUNIOR & SENIOR LANGUAGE ARTS ELECTIVE COURSES:

Reading - designed to cultivate a love for reading and to foster critical thinking through self-directed exploration of diverse texts. Students will select books based on personal interests, reading level, and literary goals, with the support of the instructor to ensure the choices align with individual growth. Throughout the course, students will set reading goals, track their progress, and engage in reflective discussions and written responses to deepen their understanding and analysis of the texts. Emphasis will be placed on developing reading strategies, improving vocabulary, and refining writing skills through regular journals, book reviews, and thematic analysis. Students will also explore a variety of genres, including fiction, non-fiction, poetry, and graphic novels, with opportunities to present their insights in both informal and formal settings.

NICC Public Speaking – An introductory course that emphasizes actual speaking experiences with practice choosing subjects, analyzing audiences, and preparing and delivering a variety of extemporaneous speeches. Opportunity will be given to develop skills in listening and group discussion techniques. **This is a junior/senior NICC Contracted Course (SPC:112) 3 college credits. This counts as an elective English credit.**

SENIOR ELECTIVE LANGUAGE ARTS COURSES:

Applied Communication (Writing) Students will learn and exercise how to apply written and spoken communication to their lives beyond high school. Students will practice different kinds of writing- professional communication, creative writing, essay writing, etc. before applying it to their project. The class is designed in an Agile Scrum environment, which is project-based. They will also receive 1:1 support for their Capstone projects. Not an NCAA or Core course for RAI.

Creative Writing (Writing) – Class offers students the opportunity to develop and improve their technique and individual style in poetry, short story, drama, essays, and other forms of prose. The emphasis is on writing; however, students may study exemplary representations and authors to obtain a fuller appreciation of the form and craft.

Composition (Writing) – Composition focuses on students' writing skills and the development of their ability to compose different types of papers for a range of purposes and audiences. This course enables students to explore and practice descriptive, narrative, persuasive, or expository styles as they write paragraphs, essays, letters, applications, formal documented papers, or technical reports. Composition courses may present some opportunities for creative writing, their focus usually remains on nonfiction, scholarly, or formal writing. This course provides capstone support.

American Literature I (Literature) – American Literature focuses upon commonly known American authors and their work. Students improve their critical-thinking skills as they determine the underlying assumptions and values within the selected works and as they understand how the literature reflects the society of the time. Oral discussion is an integral part of literature courses, and written compositions are often required. Themes included in American Literature 1 include *The American Dream*, *The American Nightmare*, and *The Search for Identity*.

American Literature II (Literature) – American Literature II focuses upon commonly known American authors and their work. Students improve their critical-thinking skills as they determine the underlying assumptions and values within the selected works and as they understand how the literature reflects the society of the time. Oral discussion is an integral part of literature courses, and written compositions are often required. Themes included in American Literature 2 include *The Power of Nature*, *War and Peace*, and *America Reimagined*.

Mythology (Literature) Course aims to improve students' language arts and critical-thinking skills through examination of Greek and Roman mythology and its impact on literature, art, and civilization through the ages. Students will attempt to discover how these ideas developed, survived, and influenced later civilization. Students will read extensively, and oral discussion will be an integral part of this course. Written compositions will be required.

Contemporary Literature (Literature) – This course aims to improve students' language arts and critical-thinking skills by focusing on the literature written during or reflecting a particular time period (late 20th century, early 21st century). Students determine the underlying assumptions and values within the selected works, reflect upon the influence of societal events and social attitudes, and compare the points of view of various authors. Oral discussion is an integral part of literature courses, and written compositions are often required.

NICC Composition I (Writing) -- Composition I is a one semester writing course that prepares senior students for the types of communication and thought essential to academic and working-world success. The course focuses on writing as a process intended to help students identify and refine their own personal writing process. **This is a NICC Contracted Course (ENG:105) 3 college credits. Students must a qualifying score on the Accuplacer or ACT test.** Sections are limited to 22 students. We will determine how many sections based on student interest. (Qualifying Scores Required: Accuplacer Writing score of 5-8, ACT score of 18 in English, and cumulative GPA) Qualifying score (including April ACT) and cumulative GPA will be used to determine student enrollment. CLASS OF 2026 ***Student must be a senior and successfully completed high school Composition during their junior year in order to be considered for enrollment in NICC Composition I. Course section limited to 22 students per NICC rules.***

NICC Composition II (Writing) -- This one semester writing course focuses on writing as a process with emphasis on persuasion, evaluation, analysis, investigation, research and documentation of sources. Prerequisite: Composition I with a minimum grade of C- or an equivalent college-level course in composition. **This is a NICC Contracted Course (ENG:106) 3 college credits.** Qualifying score and cumulative GPA will be used to determine student enrollment. ***Course section limited to 22 students per NICC rules.***

Lifeskills Fundamental Writing: This course concentrates on professional writing with organization, clearness and accuracy. Students will learn to research a topic and cite their research. Proper citations for scholarly sources, research-based learning with presentation of information, and gaining a command of proper English grammar is taught. The student's ability to revise and edit will be expanded. Students will write formally using many formats such as letter writing, resumes, and papers. *This class is taken during the second semester of the qualified student's junior year. Students must be recommended by their IEP teacher to enroll.* Students earn 1 English writing credit.

Lifeskills Formal Writing: Students enrolled in this class will complete the research and writing of their Capstone paper and presentation. These students will present their Capstone project during the first wave of presentations in December. Students will convey complex ideas in an organized way that presents facts, definitions and quotes in

detail while citing all information appropriately. The Capstone paper will be written using formal style. *This class is taken during the first semester of the senior year for students with an IEP.* Prerequisite to this class is Lifeskills Fundamental Writing. Students earn 1 English writing credit.

ELECTIVE COMMUNICATION COURSE:

Yearbook - This is a full year course that has been designed to provide students with the opportunity to develop both journalism and graphic design skills, as well as the ability to apply those skills to the actual production of the school's yearbook. Units of study include teamwork, responsibility, brainstorming, content, coverage, concept, reporting, writing, headlines, captions, editing, photography, typography, design, graphics, finances, yearbook campaigns, advertising and distribution. The work done by the yearbook staff is a real-world experience that results in the current volume of our school's yearbook. The publication strives to maintain a tradition of excellence in which the school and the community can take pride. **There is a limit of ten junior and senior students accepted into the yearbook staff.**

SCIENCE – 6 credits required

Students are required to take three (3) years or six (6) credits of science classes to meet graduation requirements. All students are required to complete Unified Science, Biology, and either Chemistry or Applied Chemistry.

REQUIRED SCIENCE COURSES:

Unified Science – This is an introductory course for freshman that is based on lecture and project-based learning. In this course students will learn about the physical world around them, from the ground they stand on to the farthest stars that they can see. This course will also discuss the forces that provide change underneath the Earth's crust, keep the planets in balance, and the forces that they experience in everyday life. Be prepared to also encounter the cross-cutting concepts of mathematics and physics.

Biology -- Biology is a course required for graduation offered to sophomores. Through instruction in this course, the student will draw together the practical experience of working in nature's laboratory along with the knowledge and skills necessary for becoming a more informed and involved citizen in a technological and environmentally concerned society. Biology also allows those students who would and/or should continue on toward college or advanced science classes to secure information necessary for success. Topic areas include: cellular biology, biochemistry, genetics, classification, botany, zoology, human physiology and anatomy. The course is lecture/lab oriented, and students may be required to complete special projects.

Chemistry – Either Chemistry or Applied Chemistry is required to meet graduation requirements. This course is designed for the college-bound student and oriented around a lecture/lab format. In this course, students will receive an in-depth look at matter as well as the interactions, relationships, and physical and energy changes that matter can experience. The first semester is focused on atoms and subatomic particles, the periodic table, compounds, chemical reactions, and stoichiometry. The second semester focuses on energy such as energy found in various states of matter, chemical reaction, the gas laws, and nuclear chemistry. If time allows, an introduction to organic chemistry will also be given. At times the course will have a strong mathematical emphasis.

Applied Chemistry - Either Chemistry or Applied Chemistry is required to meet graduation requirements. This course will examine how chemistry touches our lives almost everywhere and every day: in medicine, our homes, the clothes we wear, the foods we eat, and our environment. Course topics Periodic table, atomic structure, bonding, chemical reactions, gas laws, as well as the basic principles of chemistry. Not an NCAA or Core course for RAI.

ELECTIVE SCIENCE COURSES:

Environmental Science – This is an elective Science course for juniors and seniors. Topics include: ecosystems, energy, land, food, water, population growth, climate, and waste. These topics will hopefully help the student to understand his/her role in the ever-changing environment, and to make good decisions for the future of our world. This class will include lectures, labs, and projects related to our surroundings.

Physics – This is a college-prep elective Science course designed to challenge students to use their knowledge of the physical world around them. The format is lecture/problem-solving/challenge based. Many of the relationships are and can be explained by mathematical concepts as patterns begin to emerge. There will be an emphasis on the

mathematical application of concepts during this course. The first semester is focused on Newtonian Physics and macroscale motion. The second semester is focused on the physics of energy and work. Engineering challenges and concepts will be blended throughout the course. ***Prerequisite: Chemistry with a C- or higher and a minimum of Algebra II, or with permission from the instructor.**

Anatomy and Physiology – Through instruction in this elective Science course, the student will develop a wider breadth of knowledge and skills in the field of anatomy. By working in small groups in laboratory experiences, students will learn to solve problems, become increasingly familiar with laboratory equipment, and develop scientific curiosity. This course is especially designed for those with goals associated with scientific careers in education, any medical field, and for developing skills necessary for becoming more competitive in future work in science. However, Anatomy & Physiology is also an excellent way to become a more informed citizen in an ever increasingly concerned technological, and health-conscious world. Topics include: research, genetics, biochemistry, human physiology, and exhaustive anatomy. The course includes lecture, laboratory, and possible special projects. ***Prerequisite: Completion of Chemistry with a C- or higher, or instructor approval.**

SOCIAL STUDIES –6 credits required

Students are required to take three (3) years or six (6) credits of social studies courses to meet graduation requirements. All students are required to complete one year of U.S History, one year of World History, one-semester of Government, and one semester social studies elective course.

REQUIRED SOCIAL STUDIES COURSES:

U. S. History - This is a required course for all 9th grade students. This course is a thematic approach to the study of us as a people and a nation. Students will continue their study of U.S. History from 8th grade starting with the Civil War & Reconstruction. Students must complete the offerings to successfully complete the year requirement.

Ancient World History – This course will examine early civilizations throughout the world, including the transition from nomadic herding and hunting and gathering societies to established civilizations exhibiting cultural elements. Civilizations that will be studied include the following: Chinese, Persians, Ottoman, Byzantine, Assyrians, Sumerians, Babylonians, Mesopotamians, Etruscans, Greeks, Romans, Egyptians, Hittites, Nubians, Inca, Mayans, and Aztecs. Students may choose to take this semester long course for one credit in grades 10-12. This course is taught in the first semester. BOTH Ancient World History & Contemporary World History are required for graduation.

Contemporary World History – This course is a study of human history from the time periods of the Reformation and Enlightenment through the end of the Cold War. Students will learn about the connections between significant world events. Students will analyze events for their effects on society and the world as a whole. They will also study many modern philosophical ideas and world problems. BOTH Ancient World History & Contemporary World History are required for graduation.

U.S. Government - This course is designed for senior students to better describe, analyze and explain the American system of government. This will be accomplished by student led activities, class discussions and individual projects. This semester course is designed to help students become an informed and objective active participant in the American government system. This is a required semester course and is to be taken and successfully completed to meet social studies requirements for the state of Iowa and NFV for graduation.

ELECTIVE SOCIAL STUDIES COURSES:

Human Geography –Human Geography is a one semester course that introduces students to the thematic study of the world's people, places, and issues from a global perspective. This course will offer a rigorous and relevant look at the world, its physical geography, people, and global interactions. In this course, students will examine the world around them, locally, nationally, and globally. Students will learn and employ geospatial skills to compare and contrast places and regions, and examine the workings of many human systems in our world. Coursework will focus on themes such as population, movement, culture, geopolitics, economic development, urbanization, and natural resources. In addition, this course will also include a continuing study of global current events and their effect on our world. This course is designed for the junior year.

Economics – This course covers the basic introduction to macro, micro, and geopolitical economics. Students will study the concepts of supply and demand, taxation, development of business in a capitalistic society, and 21st century concepts in our ever-growing global economy. This is a semester elective course to be taken to meet the senior social studies graduation requirement.

Sociology – Sociology is a semester long course that will provide students with a chance to examine human social interaction and the ways in which individuals are influenced by other people and society. This course will cover the basic principles of Sociology, focusing on topics such as: groups, culture, socialization, deviance, social institutions, and social inequalities (gender, social class, race, and ethnicity). The goal is to encourage students to see, think, and act in ways that reflect the paradigm of a behavioral scientist.

20th and 21st Century History – This is a semester long course in social studies which covers the historical story between the years of 1950 through current time. Social, political, and economic occurrences will be highlighted through a variety of studies, readings, and projects that cover some of world's most dramatic events. Items to be covered in this course include the Cold War, Vietnam era, Watergate, the Reagan and Clinton years, military and cultural clashes in the Middle East, among others. This course is designed for juniors and seniors.

Contemporary Issues- Contemporary Issues is a one-semester social studies elective course designed for students who have a strong interest in both domestic and global events. Students will examine various contemporary issues facing our country and the world at large. Specific topics of study will be student generated, and explored in-depth in order to gain an understanding of the historical context of the issue and the attempts made to resolve the issue.

NICC Intro to Psychology @ NFV– This Contracted or Online course covers a survey of psychology including theoretical and experimental findings and applications from areas such as physiological learning, memory, personality, social, abnormal, and therapy, and health psychology. **NICC Contract Course (PSY:111) 3 college credits.**

NICC Developmental Psychology @ NFV This Contracted or Online class is an introductory course in human growth and development throughout the lifespan, including genetic, health, family, social networks, and other determinants of development. This course also includes related theories and theorists. Proficiency in IA Reading, Math & Science required. **NICC Contract Course (PSY:121) 3 college credits.**

MATH – 6 credits required

Students are required to take three (3) years or six (6) credits of math classes to meet graduation requirements. Students are encouraged to take a series of classes that prepare them for post-secondary education so that they are college-ready when they graduate.

FINANCIAL LITERACY-1 Math required credit

Financial Literacy- This is a one semester required Math course, taken during the senior year, which is a graduation requirement. This semester-long course will address nine key areas: savings, understanding investments, wealth building, college planning, credit and debt, consumer awareness of the power of marketing on buying decisions, financial responsibility and money management, insurance, different types of insurance coverage and buying and renting.

MATH COURSES:

Applied Math- Math class designed for students planning on going to a two-year school after graduation and planning on a career in the skilled trades. Successful completion of Algebra I is required and completion of Geometry is recommended.

Algebra I– This is a full-year course Illustrative Mathematics Algebra 1 by Kendall Hunt is a problem-based core curriculum for high school students that uses content and practice standards to help students learn and achieve. The curriculum is made up of seven units: 1) One-variable Statistics 2) Linear Equations, Inequalities, and Systems 3) Two-variable Statistics 4) Functions 5) Introduction to Exponential Functions 6) Introduction to Quadratic Functions 7) Quadratic Equations. Students learn by solving problems in real-world and mathematical contexts, constructing arguments using precise language, and making connections between concepts and procedures.

Geometry-Illustrative Mathematics Geometry by Kendall Hunt is a problem-based core curriculum for high school students that uses content and practice standards to help students learn and achieve. The curriculum is made up of nine units: 1) Constructions 2) Rigid Transformations 3) Congruence 4) Similarity 5) Right Triangle Trigonometry 6) Solid Geometry 7) Coordinate Geometry 8) Circles 9) Conditional Probability. Students learn by solving problems in real-world and mathematical contexts, constructing arguments using precise language, and making connections between concepts and procedures.

Algebra II-Illustrative Mathematics Algebra 2 by Kendall Hunt is a problem-based core curriculum for high school students that uses content and practice standards to help students learn and achieve. The curriculum is made up of eleven units: 1) Sequences and Functions 2) Polynomials 3) Rational Functions 4) Complex Numbers and Rational

Exponents 5) Exponential Functions 6) Logarithmic Functions 7) Transformations of Functions 8) Trigonometric Functions 9) Trigonometry Transformations 10) Study Types and Distributions 11) Statistical Inferences. Students learn by solving problems in real-world and mathematical contexts, constructing arguments using precise language, and making connections between concepts and procedures.

Functions, Statistics, and Trigonometry (FST) – In this course, students study descriptive and inferential statistics, combinatorial, and probability and do further work with exponential, logarithmic and trigonometric functions. Enough trigonometry is available to constitute a standard precalculus background in trigonometry and circular functions. Algebraic and statistical concepts are integrated throughout, and modeling of real phenomena is emphasized.

Statistics-This is an introductory statistics course for students of junior and senior standing. Students will become acquainted with the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Data will be gathered from a variety of sources and methods of collection will be discussed. Appropriate displays of data will be developed and described with statistical terms and measures. Students will further apply statistical reasoning to make predictions. Students will be introduced to probability models and their use in finding statistical measures.

Prerequisite: Algebra II

Pre-calculus and Discrete Mathematics – Pre-calculus topics include a review of the elementary functions, advanced properties of functions, polar coordinates, complex numbers, and introductions to the derivative and integral. Discrete mathematics topics include recursion, induction, combinatorial, vectors, graphs, and circuits. Mathematical thinking, including specific attention to formal logic and proof and comparing structures, is a unifying theme employed through the course.

PHYSICAL EDUCATION – 8 Semesters/4 credits required

Students are required to take four (4) years of physical education. Physical education meets on an every-other-day basis and is therefore worth 0.5 credits per semester. Students may take P.E. or Weightlifting to meet their requirement. Students have the option of taking an Early Bird class that meets prior to the start of the school day, if they have a full schedule.

Physical Education – Students will learn about the various aspects of maintaining a healthy lifestyle, including participation in a program to improve their own cardiovascular fitness, to learn about nutrition, and to participate in a series of life-long physical activities. P.E. is required for all students, every semester of high school.

Weightlifting P.E. – Weightlifting is an option for your required P.E. credit. Students will meet every other day, just like regular P.E. Instead of the normal P.E. activities, students will participate in weightlifting and aerobic activities to improve their strength and conditioning.

Early Bird P.E.- This option for P.E. will only be open to students with a full schedule of 8 classes. E.B. P.E. will be a normal physical activity-based P.E. course which will run from 6:45-7:40 on Tuesday and Thursday mornings. 9th grade students will need the approval of the HS Principal to enroll in Early Bird P.E.

HEALTH – 1 credit required

Students are required to take Health in order to meet graduation requirements.

Health – A one-semester course, this is a graduation requirement. The focus of the course is to have students examine their lifestyles, select goals, and make plans to achieve and maintain a healthful living. The students will study such units as personal health, substance use and non-use, precaution and control of disease (including sexually transmitted diseases).

Advanced Health –a second semester elective course open to all students. This is a course designed to guide students through individual and group health discoveries. Exposure to new health topics and previously learned health information, will help students apply health concepts in a way that directly improves their lives.

HEALTH OCCUPATIONS CLASSES:

NICC Nurse Aid I & II – The course is designed to provide the knowledge and practical skills necessary to provide care and service to residents in long-term care facilities by preparing individuals to become efficient, caring members of the health-care team. Thirty hours of theory will consist of classroom lecture regarding the cares provided by a Certified Nurse Aide. Fifteen hours in a laboratory setting will provide “hands on” experience of competencies prior to attending 30 hours in a clinical setting. The clinical experience provides students the opportunity to experience resident care in the long-term care environment. Upon successful completion of this course students will be eligible for state licensing and can test out of skills. This is a prerequisite course for NICC nursing clinical coursework and several other nursing programs. It is a 75 hour course that may be taught both 1st

and 2nd semester, depending on demand. Students must be 16 years of age to enroll. **This is a NICC Contracted Course (HSC:172) 3 college credits. Test scores and/or GPA may determine enrollment eligibility.**

NICC Medical Terminology – The study of medical terminology as the language of medicine with emphasis on word analysis, construction of definitions, pronunciation and spelling of medical terms. The NICC recommendation is that the student has already completed Biology, Algebra I, and Chemistry. It is a first semester course taught via ICN for students in grades 11 and 12. There are no prerequisites. **This is a NICC Contract Course (HSC:114) 4 college credits.**

NICC Dosage Calculation – Includes a review of fractions and decimals, conversions of metric, apothecary and household units and computations of drug dosages. The classification of drugs affecting each body system will be an integral part of this course. This is a required course for Nursing, and EMT, and will be offered during 2nd semester. **This is a NICC Contracted Course (PNN:200) 1 college credit. Students need qualifying ALEKS score or GPA.**

NICC Introduction to Health Occupations – This first semester course will provide an orientation to the institutions that make up our health care system. It includes the exploration of our health care system and the ethical, legal, and safety issues that influence and regulate health practice and maintenance. It also includes exploration of health career pathways in therapeutic, diagnostic, health informatics, and support services. **This is a NICC Contract Course (HSC:110) 3 college credits.**

NICC Introduction to Nutrition – The course emphasizes a practical knowledge of good nutrition and some knowledge of diet therapy. It includes a background of adequate and accurate information on basic nutritional needs of the body, and is a required course for Nursing and Massage Therapy, offered during 2nd semester. **This is a NICC Contract Course (PNN:270) 2 college credits.**

FOREIGN LANGUAGE

While there is no requirement for foreign language, there are requirements for admission/graduation to most four-year colleges and universities. However, those requirements vary a great deal and it is important that students and their parents either contact prospective colleges/universities, or visit with the school counselor. Students are strongly advised to take foreign language if they plan to attend a four-year college or university.

Spanish I – This is an introductory course, designed for the beginning Spanish student, with no previous study of the language. In class, we use a Comprehensible Input model of instruction, which focuses on acquiring the language through multiple and frequent repetitions of grammatical structures through a variety of listening, speaking, reading, and writing tasks. Our goal is to build student engagement and motivation through interesting readings, videos, games, and songs that require the language to accomplish a task. This is a full year course.

Spanish II – This course is a continuation of Spanish I. Throughout the year, students use all four communicative skills: reading, writing, listening, and speaking. The student-centered lessons bring together language and culture in each lesson sequence, preparing students for the real world. The culture of the Spanish- speaking world is also a regular part of Spanish II class. This is a full year course.

Spanish III – Designed for the advanced beginner, upon successful completion of Spanish I, and Spanish II, **or equivalent**. Students will increase their vocabularies and learn to go beyond describing current events to discussing past events. Students can explore options in target-culture situations and learn to handle difficulties and unexpected events. Activities increase in length at this level. This is a full-year course.

Spanish IV – This course is designed for the intermediate Spanish student, upon successful completion of Spanish I, Spanish II and Spanish III, **or equivalent**. Students will acquire a broader vocabulary, improve their language skills via proven language practices including authentic resources and comprehensible input.

VISUAL ARTS –

Art is an elective program with a number of semester courses from which students can choose. From introductory courses to advanced classes, this program provides opportunity for students with different skill levels and aptitude.

Printmaking – This is a fall semester, entry level studio course that is designed for students especially interested in developing fundamental skills and techniques in a variety of printmaking methods such as; relief, screen, intaglio, and collagraph. Projects in this course will predominantly focus on developing students' technical printmaking skills in each printmaking method.

Advanced Printmaking – This is a spring semester advanced studio course that follows printmaking. It is designed to give students the opportunity to apply previously learned/acquired printmaking skills and techniques to more artistically autonomous projects. Students will create a variety of theme-based projects that challenge them to think critically, generate authentic ideas, and further refine their printmaking skills. **Students must have successfully completed printmaking in order to take this class.**

Drawing – This is a fall semester, entry level studio course that is designed for students especially interested in developing fundamental skills and techniques in a variety of drawing mediums such as; graphite, colored pencil, pastels, and ink. Projects in this course will predominantly focus on developing students' technical drawing skills in order to achieve a variety of drawing results (realism, animation, depth, etc.)

Advanced Drawing – This is a spring semester advanced studio course that follows drawing. It is designed to give students the opportunity to apply previously learned/acquired drawing techniques to more artistically autonomous projects. Students will create a variety of theme-based projects that challenge them to think critically, generate authentic ideas, and further refine their drawing skills. It is highly recommended that students have some level of drawing experience if planning to take this course, as it focuses more on the application and refinement of drawing skills rather than the development of fundamental drawing skills and techniques.

Painting – This fall semester studio course is designed to give students the opportunity to develop fundamental painting skills and techniques in various conventional and unconventional painting mediums (i.e acrylic, watercolor, ink, coffee). The course is designed to develop a better understanding of painting composition, color theory, and its application, various painting styles, and painting techniques and their application.

Advanced Painting – This is a spring semester studio course following painting. This course focuses on giving students the opportunity to apply previously learned/acquired painting techniques and applications to more artistically autonomous projects. Students will create a variety of theme-based projects that challenge them to think critically, generate authentic ideas, and further refine their painting skills and build their knowledge of color theory. It is highly recommended that students have some level of painting experience if planning to take this course, as it focuses more on the refinement and application of painting skills rather than the development of fundamental painting skills.

Ceramics – This fall semester studio course is designed to give students the opportunity to explore the fundamentals of clay processes and building techniques. This course will focus on the development of students' clay building skills and techniques (coil, pinch, slab) through the construction of a variety of hand-built clay forms (i.e. box, mug, vase, etc.). Depending on class size, students may also get the opportunity to create wheel-thrown clay forms as well.

Advanced Ceramics – This is a spring semester studio course designed to further strengthen students' clay building skills through the creation of more autonomous projects. Students will create a variety of both functional and decorative works that challenge them to generate more authentic ideas and refine their clay building skills. It is highly recommended that students take ceramics before taking advanced ceramics, as this course focuses very little on the development of clay building techniques and more on the application of clay building techniques and the development of artistic autonomy in ceramics.

Yearbook - This is a full year course that has been designed to provide students with the opportunity to develop both journalism and graphic design skills, as well as the ability to apply those skills to the actual production of the school's yearbook. Units of study include teamwork, responsibility, brainstorming, content, coverage, concept, reporting, writing, headlines, captions, editing, photography, typography, design, graphics, finances, yearbook campaigns, advertising and distribution. The work done by the yearbook staff is a real-world experience that results in the current volume of our school's yearbook. The publication strives to maintain a tradition of excellence in which the school and the community can take pride. **There is a limit of ten junior and senior students accepted into the yearbook staff.**

Senior Art Portfolio – This is a full year studio course designed to give senior art students the opportunity to choose the direction of their studies in art and the type of art they want to create. The purpose of this course is for students to develop strong studio habits and an artistic work ethic while fostering confidence, responsibility, experimentation, and originality. In addition, students will develop and employ artistic skills and use a variety of techniques to create artwork. **Students must have successfully completed at least two other visual art courses.**

Yearbook - This is a full year course that has been designed to provide students with the opportunity to develop both journalism and graphic design skills, as well as the ability to apply those skills to the actual production of the school's yearbook. Units of study include teamwork, responsibility, brainstorming, content, coverage, concept, reporting, writing, headlines, captions, editing, photography, typography, design, graphics, finances, yearbook campaigns, advertising and distribution. The work done by the yearbook staff is a real-world experience that results

in the current volume of our school's yearbook. The publication strives to maintain a tradition of excellence in which the school and the community can take pride. **There is a limit of ten junior and senior students accepted.**

PERFORMING ARTS –

Music is an elective program, with opportunity for students to perform in either vocal or instrumental music, or both. Students who choose to be involved in either music program will have numerous co- and extracurricular opportunities.

Concert and Varsity Chorus –This course is for young men and women who like and have the ability to sing. Students will be divided into two choirs based on audition. One choir (Concert Chorus) will be composed of mainly 9th and 10th graders, while the other choir (Varsity Chorus) will be composed of mainly 11th and 12th graders. Lessons are required and are a major part of the course grade. This group participates in four major performances each year (October, December, March, May) and the Upper Iowa Conference Festival in October. The choirs additionally participate in Large Group Contest in May. Students will receive one credit per semester of successful experience.

Band – The high school band program is open to students continuing in the total 5-12 instrumental program. Students who have not participated in band prior to high school may enroll provided they meet performance standards as specified by the band directors. The program includes participation in the following groups: Concert Band and Marching Band. Lessons are required. Students may audition for places in Jazz Band and Musical Pit Band. Pep Band is open to all band members on a voluntary basis. North Fayette Valley enters contest activities sponsored by the Iowa High School Musical Association, including events for soloist and small group ensembles. The band appears at many school and local functions in addition to the regular concert and contest schedule. Students receive a letter grade and a credit for each successful semester of band experience.

Music Theory (.5 Credit)- In Music Theory, students will deepen their understanding of the mechanics of music and apply that knowledge through analysis and composition. To begin, students will hone their music fundamentals by studying music notation and terminology. They will then dive into the elements of music, which include melody composition, rhythm, and an extensive look into harmony. Students will apply their knowledge by analyzing existing music as well as applying learned concepts in their own compositions. This course is designed for current music performers (band and/or chorus members) who are interested in learning more about the music they perform. The course also serves as a way to prepare students for the study of music at the collegiate level. Prerequisites: Current enrollment in Band and/or Chorus. *Students who have elected to be in both ensembles should not drop an ensemble in order to enroll in this course.

PERSONAL AND CAREER DEVELOPMENT – *required*

In order to graduate, all students must complete two programs designed to better prepare them for their life beyond high school, as well as to measure the effectiveness of the education program that they have participated in during high school. The Capstone Project and the Junior Job Shadow are components that are integrated into Advisory and throughout courses that students take while in high school.

Capstone Project – (1-Credit) Seniors will complete a Capstone Project to meet graduation requirements. The Capstone consists of research, writing, use of technology, development of a mentor relationship, and a formal presentation. Students are given the latitude to select a topic of interest and to identify an “expert in the field” to serve as a mentor. Their technology skills will be utilized through research and the development of a presentation. In some instances, technology may be used in the development of a product. Instruction, time to work, and collaboration opportunities will be done during advisory. Senior advisors will support the student efforts. Presentations will happen in Feb/March.

Junior Job Shadow – Junior students, though their advisory program will work with a coordinator to set up job shadow opportunities in order to get a better perspective on career opportunities. In addition, instruction on specific job-readiness skills will be provided prior to setting up these experiences.

CAREER AND TECHNICAL EDUCATION PROGRAM

Each Career and Technical Education area (CTE) offers a sequence of classes. Students who take all of the courses in the sequence for a given area are considered to be a sequence completer. The course sequence for each area is listed below:

- **Business Education** – *Career Cluster: Business, Management and Administration* – Courses: Recordkeeping, Business Dynamics, Computer Applications, Accounting
- **Family and Consumer Science** – *Strand: Human Services*– Courses: Intro to FCS, Foods, Parenting, Family Living, Housing & Interior Design I, Housing and Interior Design II
- **Agriculture Education** – *Strand: Agriculture, Food & Natural Resources*– Courses: Intro to Agriculture, Plant Science, Animal Science
- **Industrial Technology** – *Strand: Manufacturing* – Courses: I-Tech Woods, I-Tech Metals, Steel Processing, Wood Processing, Manufacturing Design (year).

BUSINESS EDUCATION & COMPUTER SCIENCE

The Business Education Program is an elective program which provides students the skills needed in today's society. Coursework is developed closely with local community colleges. In addition to this, coursework also matches closely with 21st Century Skills as referenced in the Iowa Core. Students have an opportunity to earn college credits through NICC: Pre-Employment Strategies and NICC: Business Computer Applications, which may transfer to various post-secondary institutions. Upon completion of business education program courses, students may become employed in entry-level positions within the business sector.

Computer Applications – This class covers responsible online presence, the Microsoft Suite including: Word, Excel, and PowerPoint. Students in this course also produce the “TigerHawks Talk” section of the Fayette County Union once per month. Students learn to produce accurate and quality applications throughout the course. This year-long course meets every other day. Students will be able to earn one (1) credit for the entire year. This course is open to all students in grades 9-12.

Recordkeeping – This is a yearlong course open to students in grades 9-12. Upon instructor approval, students may join the course at semester. This course covers the ‘life basics’ including: recordkeeping skills, budgeting money, credit cards, recording cash receipts, checking accounts, petty cash records, investments and mutual funds, introductory accounting, taxes, insurance and various career opportunities available within this area. This course requires daily work within the classroom using a text and workbook. If you plan to earn money and retain earnings during your lifetime, this is an excellent course.

Accounting – Basic accounting class is open to 10th-12th grade students. Accounting is a foundations course, which introduces students to various financial transactions, leading students towards financial responsibility by increasing understanding of business transactions. This course introduces students to the concepts of the accounting cycle including journalizing transactions, posting adjusting and closing entries, and preparing financial statements. Students in this course will complete the accounting cycle for both a proprietorship and a corporation. Emphasis is placed on business concepts along with accounting transactions. This course has no prerequisites; however, completion of Recordkeeping is highly recommended.

Business Dynamics – (12th Grade only) This course includes business and its environment, business ownership, insurance, banking, production and marketing, human resources, advertising, and business law background.

Emphasis in this course also provides students who may be future small business owners the basic skills needed to begin the process of business ownership. Several opportunities are provided for students to design coursework tailored to fit their individual needs. Students also receive financial literacy instruction within the course. Business leaders are brought in throughout the course to share their knowledge and experience with business ownership. This is a semester or yearlong course, which meets every other day. It is worth .5 credits per semester.

Business Computer Applications (BCA:212)– Introduction to Computer Business Applications is offered as a concurrent credit through NICC. This course presents an overview of application software concepts through hands-on exercises using business application software. Practical applications will include spreadsheet, word processing, database, presentation graphics and charting. **This is an NICC Contract Course 3 college credits.**

NICC Employability Skills (WBL:110) – This course is designed to assist students in illustrating the skills necessary to obtain employment by aligning career goals with education plans and practice the skills and attitudes required for job success. Students will complete an inventory, practice resume writing, interviewing techniques, and work-place problem solving strategies. Networking with local employers and learning about local employment opportunities will be a key course component. **This is a NICC Contract Course 2 college credits.**

Business Internship – This course allows students the ability to earn credit by completing an *unpaid* internship during school hours. Students are placed according to interest and ability with local cooperating businesses. Students must be currently enrolled, or have successfully completed: **NICC Employability Skills (WBL:110)**. Scheduling for this course is during 1st and 2nd periods OR 7th and 8th periods. For a two-period work site experience, you will earn one high school credit. 1st-3rd or 6th-8th is also an option, with students receiving 1.5 credits per semester.

Computer Science (2-Semesters) *Computer Science Principles (CSP)* by Code.org introduces students to the foundational concepts of computer science and challenges them to explore how computing and technology can impact the world. The course is designed with the goal of creating leaders in computer science fields and engaging those who are traditionally underrepresented with essential computing opportunities.

FAMILY AND CONSUMER SCIENCE –

Family and Consumer Science is a Career and Technical Education program, with elective courses designed for students who have an interest in careers relative to among other things, culinary arts and food service, clothing and design, child care, and early childhood education. Skills will be taught that also enhance parenting and independent living. Upon completion of course work, a student may continue this program with an articulated program at NICC or any other community college holding an articulation agreement.

Intro to FCS–This one semester course will introduce students to many different aspects of Family Consumer Science. This is a great class for 9th grade students to take.

Housing & Interior Design ~ (one-semester class). Housing and interior design will explore housing options, elements & principles of design, application of design to home, various floor plan options, furniture arrangements and housing styles, and architectural designs & styles. Students will learn about universal design and consumer rights. Students will apply skills learned when creating room and home designs to meet the needs of others, then choosing colors, materials (furnishings, lighting, furniture, etc...), to put into their design. Projects will include designing a variety of rooms in & out of a home, designing a complete floor plan for a home and creating a design board to display colors, textures, and the various elements of design used within the home.

Housing & Design II (1 semester long) *Prerequisite: Housing & Interior Design I*

Housing & Interior Design II will explore making sustainable housing choices, furniture and appliance selection, reading architectural plans, and understanding the steps of construction. Students will develop 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 creating vision boards used to decorate rooms, designing floor plans which meet specific requirements for a client, and modifying a predesigned plan to meet a families need. Students will also explore potential careers in the architecture and design fields. **This course is also connected with WBL143 NICC Workplace Learning where students will receive 3 college credits from NICC.**

Food and Nutrition - Laboratory class in which students spend approximately 40% of the class time in the lab. This class is a study of nutrition, including facts and fallacies. It includes the basic five food groups to study principles and preparation of milk products, cheese and egg cookery, meat, fruits and vegetables, grains and cereals. One-semester course.

Advanced Food and Nutrition - This course is a continuation of Foods and Nutrition. Advanced Foods and Nutrition is a laboratory class that includes the study of the following units: study of starch, fat, and sugar cookery; meal planning and meal management; study of kitchen efficiency, and the study of foreign foods. This is a second semester course, and successful completion of Foods and Nutrition is helpful.

Hospitality & Tourism-Elective, one credit

Prerequisite: Foods I; one semester course, offered 1st and 2nd semester

Hospitality and Tourism involve four industries: Travel, Leisure, Restaurants, and Lodging. Students will explore such concepts as creating a theme park, designing their own hotel, understanding the tourism industry, creating a travel itinerary, event management, and exploring 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.

Parenting - This one semester course will study the development of the fetus, infant, toddler, preschooler and elementary age child. Emphasis will be placed on observation of children at all stages to recognize physical, social, emotional and mental development. Nutrition, appropriate clothing, and toys for different age children will be discussed. Parenting skills and guidance of children will be incorporated into the course.

Family Living - This one semester course is the study of the complete family cycle including dating, engagements, marriages, pregnancy, childbirth, adolescent, the launching stage, middle age, aging, and death. Consideration of family relationships at all the stages is taken. Analysis of values and goals, decision-making, communication skills, role expectations, rights, responsibilities, budgeting and problems pertaining to particular stages are also learned.

AGRICULTURE EDUCATION –

Agriculture Education is a sequence of courses that lead to skills that will help prepare students for farming, agricultural business or to further their education in a post-secondary institution in agriculture. Upon completion, the student may also continue this program with an articulated program at NICC (Calmar) or any other community college holding an articulation agreement.

Intro to Agriculture - What do you want to do after high school? Once you graduate, how will you use the science, math, reading, and writing you learned? The agricultural industry may be the answer. Agricultural careers require a wide array of skills from food tasting to construction. In *Introduction to Agriculture*, you will develop foundational skills leading you to a rewarding career in agricultural science. Spend your school year with hands-on experiences using plants, animals, natural resources, and agricultural tools. Burrow down in a soil pit to discover what is beneath your feet. Investigate the mystery of plant deaths in a greenhouse. Research the quality of water in your community and school. Determine how food should be safely stored and preserved to keep you healthy. Plan, design and construct a habitat for local wildlife. These are just a few of many activities you will complete. **This course is a prerequisite for all the other HS Agriculture courses.**

Plant Science (Formerly Ag II) This course provides a foundation of plant science knowledge and skills. Students will experience various plant science concepts through exciting “hands-on” activities, projects, and problems. 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 in agronomic, forestry, and horticultural industries. Students will discover the value of plant production and its impact on the individual, the local, and the global economy. 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. **Prerequisite: Intro to Ag**

Animal Science (Formerly Ag III) Do you enjoy working with animals? Would you like to know more about animal behavior, anatomy, and health. Gain foundational knowledge and skills through this course to prepare for a career working with animals.

Spend the year investigating how animals and humans are dependent upon each other. Investigate how animals were domesticated by humans. 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 this course. **Prerequisite: Intro to Ag**

Natural Resources and Ecology (Formerly Agriculture Education IV) - This course is a foundation course within the CASE sequence of courses. The course provides students a variety of experiences that in the fields of natural resources and ecology. Students will explore hands-on projects and activities while studying topics such as land use, water quality, stewardship, and environmental agencies. Study of the natural world including biomes, land, air, water, energy, use and care as well as a focus on issues surrounding man's interaction with the Earth will be addressed in this course. **Prerequisite: Intro to Ag**

Possible Courses from NICC through Online PICC

AGS 114 – NICC Survey of the Animal Industry 2 College Credit(s)

Explores breeds, life cycles, management practices, marketing and care of farm animals. Species included are food animal production of beef and dairy cattle, sheep, goats, swine and poultry, as well as companion animals of horses, dogs, cats and others. Note: Corresponds to college or university lower division coursework.

AGA 114 – NICC Principles of Agronomy 3 College Credit(s)

Introductory principles of plant-soil-climate relationships in crop production designed after a similar course at Iowa State University and uses many of the same materials. Note: Corresponds to college or university lower division coursework.

AGB 235 – NICC Introduction to Agriculture Markets 3 College Credit(s)

Basic concepts and economics principles related to markets for agricultural input and products. Overview of current marketing problems faced by farms and agribusinesses, farm and retail price behavior, market structure, food marketing channels, food quality and safety, implications at the farm level of consumer preferences and the role of agriculture in the general economy. Covers marketing methods and strategies for agricultural commodities, including introduction to hedging, fundamental analysis, technical analysis, futures, options, risk management tools and use of other market information. Note: Corresponds to college or university lower division coursework.

AGB 330 – NICC Farm Business Management 3 College Credit(s)

Covers all aspects of farm decision making, including record keeping, budgeting, year-end analysis, enterprise analysis and tax management. Note: Corresponds to college or university lower division coursework.

Industrial Technology/ASTEM (Applied Science Technology Engineering Math)

Industrial Technology/ASTEM is an elective program that is designed to equip students with skills that are viable in today's workplace. Introductory courses provide a broad perspective on different aspects of the content area. As students work through the program, drafting and design, as well as manufacturing become more of a focal point. Developing partnerships with area companies provide opportunities for students in this growing field.

I-Tech Woods: single semester course. Students will be introduced to all hand and power tools in the wood shop setting, learning and utilizing design software in creating multiple projects. Students will progress through safety, separating, joining, designing, laser etching, and finishing high-quality wood projects.

I-Tech Metals: single semester course. Students will be introduced to all hand and power tools in the steel shop setting. Welding processes include SMAW (stick), and GMAW (MIG). Cutting processes include: Oxyacetylene, Plasma, and steel saw. Welding blueprint symbols will be introduced, as well as CNC Plasma design software.

Steel Processing: single semester course, prerequisite I-Tech Metals. Students will further their steel shop learning through the addition of Aluminum MIG & TIG welding, tube bending and tube notching. Additional learning will include designing (through Adobe Illustrator), and running the BOSS industrial CNC plasma cutter, and bending sheet steel with an 8-foot brake. Students will work through a steel manufacturing enterprise, from design to fabrication to powder-coating finished projects.

Wood Processing: single semester course, prerequisite I-Tech Woods. Students will further their woodshop learning through additional software (introductory G&M coding, Fusion360) and tool knowledge. Students will work through a wood manufacturing enterprise, student-designed, produced and finished through typical wood-shop tooling and designed with a CNC router.

Manufacturing Design: This is an upper-level class for 11th & 12th graders, contracted with NICC (course WBL140), year-long course. Prerequisites of either I-Tech Woods *and* Wood Processing or I-Tech Metals *and* Steel Processing. This class will be attached to SkillsUSA, a Career Technical Skills Organization for I-Tech/ASTEM (think: FFA for shop). Students will do a deep dive into brainstorming,

designing, prototyping, pitching the project to an authentic audience (customer/consumer), redesigning, fabrication, and finishing projects as selected by the class. All tools, software, and materials are available for students to dream, design, and create -- the full shop and classroom are open to students and the class creations. If you can dream it and design it, you can create it. This course plans to run two periods, back to back. **This course is also connected with WBL140 NICC Workplace Project Based Learning where students will receive 3 college credits from NICC.**

Robotic Manufacturing: 2-semester course, no prerequisites. Students will learn programming design and RobotC programming language to design and run robotic components based on physical inputs and outputs, G&M programming language to design and run CNC milling/CNC plasma/3D printed projects, culminating in the incorporation of all programs working together in an automated assembly line.

Electricity: single semester course. Prerequisites: Completion of Algebra I or Algebra IA & IB (this is a math-heavy course). Students will be introduced to AC/DC electrical theory, circuit design, basic wiring, and alternative electrical production. Jr/Sr level course. Prerequisite: Completion of Wood or Steel Processing, and Manufacturing Design.

Advanced Manufacturing Design- In this senior-level class, students are empowered to take control of their learning as project managers, utilizing SCRUM framework in leading a team of classmates through a multi-disciplined, community-partnered project. Students will be the point of contact with customers in soliciting projects, developing designs, leading a team of students, recordkeeping, resource inventory, material sourcing, through project completion and installation if applicable. Pre-requisites for consideration into class include instructor approval, I-Tech Woods OR I-Tech Metals, Steel Processing OR Wood Processing, and Manufacturing Design.

ELP/GIFTED AND TALENTED PROGRAM

Identification:

Students who enter North Fayette Valley High School identified as Gifted and Talented are eligible to participate in our program. This includes students who move up from our middle school or enter from other school districts. Should a request for evaluation be received, the district identification process and matrix are used to identify eligible students.

Program Administration:

The district Gifted and Talented coordinator is responsible for the program.

Program Components:

- Post-secondary Opportunities – Gifted and talented students are provided the opportunity to take post-secondary level courses for high school and college credit throughout their high school career. Many North Fayette Valley students choose this option, some taking college courses in the summer in addition to both semesters of the school year.
- Extended Learning Opportunities – Students are encouraged to attend conferences, competitions, seminars, workshops, and other learning activities in their interest areas.
- Accelerated Course Options – Based on student performance assessments, students may be accelerated through the course of study at North Fayette Valley High School. While the fundamental graduation requirements must be met, students may take courses at the college level or through other sources to complete their personal course of study.
- Independent Study – A structured Independent Study option is provided to students following the Capstone model that includes research, working with a mentor, a formal presentation, and a final paper and product. Students are able to select their area of study based on their own individual interests.

Program of Study:

A meeting will be held prior to the start of the school year with each Gifted and Talented student and their parent(s) to review their four-year plan and confirm their course of study for the upcoming school year. Included in this planning will be goal setting for the student as well as scheduling future meetings to discuss progress.

COLLEGE CREDIT CLASSES

Senior Year +

Students in 11-12th grade and identified ELP/TAG students in grades 9-12 are eligible to enroll in college courses. Courses include Online, and on-site classes. In order for students to enroll in courses, high school students need to be proficient in reading, mathematics, and science. In order to demonstrate proficiency, the student must score at the

proficient level in the most recently administered Iowa Testing in reading, math, and science. Students must also meet the entrance requirements at the eligible post-secondary institution. Students may not enroll in courses in which comparable courses are available in the local school district. There will be no charge to the student for tuition. However, a student will be required to purchase materials or books that become the property of the student. **For PSEO courses specifically, the student or parents will be liable for reimbursement of tuition if the student fails a class, or drops the class more than 3 days after the official start of the class.** For all college classes, if a student drops a course more than 3 days after it has officially started, they will receive an “F” on their high school transcript. Students will also be held to any eligibility consequences due to this “F”.

In order to enroll in PSEO course, a student must inform the school district of the intent to participate under this act and submit an application form. The local school district will request a copy of grades received by students. Upper Iowa University is our closest partner for PSEO courses. More information on their offerings can be found on page 19 of this guide.

NICC CONTRACTED and PICC CLASSES

NICC contracted and PICC classes, are offered on a limited basis. These programs are the most common way students take college courses while attending NFV. These are courses which students may receive both high school and college credit. Students in 10th-12TH grade and identified T.A.G. students in grades 9-12 are eligible to enroll. 10th grade students, who are eligible, will be allowed the opportunity to take one (1) PICC or Contracted course per semester. The contracted classes are taught at the high school or online by a certified staff member using the NICC curriculum. The PICC courses currently are all online courses. Contracted classes are offered at no additional cost to the student. PICC class tuition is paid by the school, but if a book is required for a PICC course, the student is responsible for any cost related to the book. **Students may be required to take the Accuplacer, ALEKS or ACT in order to qualify for some courses.** The credits earned from these classes may be transferable credits to other colleges and universities. **If a student drops a course more than 3 days after it has officially started, they will receive an “F” on their high school transcript. Students will also be held to any eligibility consequences due to this “F”.**

Type of Course	Who pays the tuition?	Who pays for the textbook(s)?
PSEO	School/NFV	College
NICC Contracted Courses	School/NFV	School/NFV
PICC Classes	School/NFV	Student

Courses:

LANGUAGE ARTS					
SPC:112	Public Speaking	3 college hours	NICC	In person	NICC Contracted
ENG:105	Composition I	3 college hours	NICC	In person	NICC Contracted
ENG:106	Composition II	3 college hours	NICC	In person	NICC Contracted
SOCIAL STUDIES					
PSY:111	Intro to Psychology	3 college hours	NICC	In person	NICC Contracted
PSY:121	Developmental Psychology	3 college hours	NICC	In person	NICC Contracted
PSY:112	Psychology of Human Relations	3 college hours	NICC	Online/consortium	NICC Contracted
BUSINESS					

CSC:116	Information Computing	3 college hours	NICC	In person	NICC Contracted
WBL:110	Employability Skills	2 college hours	NICC	In person	NICC Contracted
<i>AGRICULTURE</i>					
AGS114	Survey of the Animal Industry	2 college hours	NICC	Online	NICC Contracted
AGA114	Principles of Agronomy	3 college hours	NICC	Online	NICC Contracted
<i>HEALTH OCCUPATIONS</i>					
HSC:110	Intro to Health Occupations	3 college hours	NICC	Online/consortium	NICC Contracted
HSC:114	Medical Terminology	4 college hours	NICC	Online/consortium	NICC Contracted
PNN:270	Intro to Nutrition	2 college hours	NICC	Online/consortium	NICC Contracted
PNN:200	Dosage Calculation	1 college hour	NICC	Online/consortium	NICC Contracted
HSC:172	Nurse Aide I and II CNA	3 college hours	NICC	Online/consortium	NICC Contracted
<i>CAREER PROGRAMS</i>					
	Auto Tech	½ day program	NICC	In person on Calmar Campus	
	Construction	½ day program		In person on Calmar Campus	
	Information Tech	½ day program		In person on Calmar Campus	
<i>ONLINE COURSES</i>					
			UIU	Online	PSEO

***Upper Iowa University Some of the possible PSEO Options**

<https://uiu.edu/academics/iowa-dual-enrollment/> (program information and course descriptions)

ARTS AND HUMANITIES

ART 100 Intro to Art

MUS 200 American Jazz Styles

MUS 202 American Popular Music

PHIL 150 Intro to Philosophy

PHIL 202 Contemporary Ethics

COMMUNICATION

COMM 105 Public Speaking

ENG 101 Basic Composition –Prereq: NFV Composition

ENG 102 English Composition II

HISTORY

HIST 100 World History to 1500 *Prereq: NFV Ancient World History*

HIST 110 American History to 1877 - Prereq: NFV U.S. History

HIST 111 American History since 1877 -Prereq: NFV U.S. History

NATURAL SCIENCES

ES 114 Conservation of Natural Resources Prereq: NFV Biology

ES 117 Natural Disasters

ES 161 Environmental Science-Prereq: NFV Chemistry

SOCIAL SCIENCES

BA 160 Microeconomics- Prereq: NFV Economics

BA 161 Macroeconomics- Prereq: NFV Economics

PS 230 State & Local Government

PSY 190 General Psychology

PSY 212 Dev Psych: Birth-Adolescence- Prereq: PSY 190

PSY 240 Conflict Resolution

SOC 110 Principles of Sociology- Prereq: NFV Sociology

SOC 220 Social Problems

SOC 240 Diversity in the United States

If interested, please speak with Mr. Clark to receive more information and application materials for these possible PSEO courses. Minimum cumulative GPA of 3.0 to qualify and junior/senior status or TAG/ELP.

ENTRANCE REQUIREMENTS FOR AREA COLLEGES/UNIVERSITIES

As a general guide, students should take the ACT test during the spring of their junior year, especially if they are planning on going to a 4-year college. The regent universities are all still “Test Optional” since Covid. A student can, but is not required take the ACT in order to enroll at a community college. The community colleges have their own placement tests that students can take in place of the ACT. **Please read the information below about the RAI and Regent universities in the state of Iowa.** It is recommended that you check with the admission office at the school you are interested in for their specific requirements. Entrance requirements and graduation requirements at post-secondary school can be very different. The guidance department advises you to contact the admission office at the school(s) you are planning on attending to find out what the particular entrance and graduation requirements are.

The Regent universities will continue to conduct individual reviews for those Iowa freshmen applicants who do not meet the minimum RAI value of 245 for automatic admission, regardless of which RAI formula applies.

BOARD OF REGENTS ADMISSION INDEX (RAI)

Regent Admission Index (RAI) is calculated for freshman applicants to the Regent universities (**University of Northern Iowa, University of Iowa, Iowa State University**). Students who have an RAI of 245 or greater and the required core subject area courses will be eligible for automatic admission to any of the three Regent universities. All three regent universities are still “Test Optional” since Covid, but they all recommend taking the ACT or SAT. Some departments may require a test score for admission and some scholarships may require a test score.

The Regents have now developed a uniform system for figuring the RAI for students who come from schools who don’t rank their students (Like NFV). The same cut score of 245 will be used for admission with this formula.

RAI= (3 x ACT composite score) + (30 x high school GPA) + (5 x number of high school courses completed in the 5 academic Core areas)

An online calculator is available at www.regents.iowa.gov/RAI

NCAA ELIGIBILITY REQUIREMENTS

If you enroll in a Division I or Division II college and plan to participate in athletics or receive an athletic scholarship, you must meet all of the NCAA requirements. To view requirements, NFV courses which meet the requirements, and also create an account, please visit <https://web3.ncaa.org/ecwr3/> ACT scores are no longer required.

ONLINE ADVANCED PLACEMENT (AP) CLASSES

Selected Advanced Placement (AP) classes will be offered at North Fayette Valley. These classes will be offered on an online format through the Belin-Blank Center at the University of Iowa. These classes will be offered to expand but not replace current curriculum offerings. AP classes will be open to a small number of junior and senior students. Students will receive high school credit for the courses and have the possibility of earning college credit if they sit for and pass the AP exam in May. Nationally 60 percent of students who take AP classes sit for the exam to attempt to earn college credit. The current student cost for an AP exam is around \$100. Students will only be allowed to take one (1) online AP course per semester. The student must have an open period in their schedule to enroll in an AP class. All registration materials for AP classes can be obtained from the counseling office and students will be registered by the counseling office. Students who fail first semester of a full-year course will not be allowed to enroll in second semester. Students who drop a course after the first day of class may not be eligible to enroll in future courses. You may go to www.iowaAPacademy.org/ for more detailed information about this program and www.Apexlearning.com for complete descriptions of the online AP courses.

CORE COURSES AT NFV THAT FIGURE INTO RAI

2-Semester Course = 1 unit; 1-Semester Course = .5 unit

English

English I (2-Semesters)
 EnglishII/Speech (1-Semester)
 English II (1-Semester)
 English III (2-Semesters)
 Composition (1-Semester)
 World Literature (1-Semester)
 Creative Writing (1-Semester)
 Contemporary Literature (1-Semester)
 American Literature (1-Semester)
 American Literature II (1-Semester)
 Mythology (1-Semester)
 NICC Composition I (1-Semester)
 NICC Composition II (1-Semester)
 NICC Public Speaking (1-Semester)

Mathematics

Algebra I (2-Semesters)
 Geometry (2-Semesters)
 Algebra II (2-Semesters)
 Functions (2-Semesters)
 Statistics (2-Semesters)
 Precalculus (2-Semesters)

Social Science

Human Geography (1-Semester)
 Ancient World History (1-Sem.)
 Contemporary World History (1-Sem)
 U.S. History (2-Semesters)
 20-21st Century History (1-Semester)
 Government (1-Semester)
 Economics (1-Semester)
 NICC/UIU Psychology (1-Semester)
 Sociology (1-Semester)

Science

Environmental Science(2-Semesters)
 Unified Science (2-Semesters)
 Biology (2-Semesters)
 Chemistry (2-Semesters)
 Physics (2-Semesters)
 Anatomy/Physiology (2-Semesters)

Foreign Language

Spanish I (2-Semesters)
 Spanish II (2-Semesters)
 Spanish III (2-Semesters)
 Spanish IV (2-Semesters)