

USD #251

# Northern Heights High School

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Course Book 2020-2021



# COURSE DESCRIPTIONS

## Language Arts

**Course Name:** 01001 English I **Grades: 9**  
**Course Length:** Year  
**Description:** This required course combines both grammar and literature. The student concentrates on improving his language skills by learning how the English language functions. In this class, the student uses the skills in various writing, speaking, and reading situations.

**Course Name:** 01002 English II **Grades: 10**  
**Course Length:** Year  
**Description:** This course is the second level English course combining grammar and literature. Students in this course learn how the English language functions and they practice these language skills by using various writing, speaking, and reading situations. Prerequisite: English I

**Course Name:** 01003 English III **Grades: 11**  
**Course Length:** Year  
**Description:** This course features an overview of American literature. Students will continue to develop skills in English grammar and begin to learn the craft of writing compositions.

**Course Name:** 01004 English IV **Grades: 12**  
**Course Length:** Year  
**Description:** Emphasis in this course is placed on skills such as resume writing, reports, and vocabulary skills.

**Course Name:** 10002 & 10003 Composition 103 & 104 **Grades: 12**  
**Course Length:** Year  
**Description:** This course is offered for concurrent high school and college credit through Flint Hills Technical College. In Composition 103, students will study the writing process in depth, and will demonstrate writing for various intents and purposes by completing five formal essays. Composition 104 focuses on research and writing skills that are used across the post-secondary curriculum. Prerequisite: English III and minimum language score on ACT or ACCUPLACER-NextGen test.

**Course Name:** 01104 Creative Writing **Grades: 9-12**  
**Course Length:** Semester  
**Description:** Creative writing is an introduction to writing short stories and poetry.

## Mathematics

**Course Name:** 02051 Pre-Algebra **Grades: 9**  
**Course Length:** Year  
**Description:** Pre-Algebra courses increase students' foundational math skills and prepare them for Algebra I by covering a variety of topics, such as properties of rational numbers (i.e., number theory), ratio,

proportion, estimation, exponents and radicals, the rectangular coordinate system, sets and logic, formulas, and solving first-degree equations and inequalities.

**Course Name:** 02052 Algebra I **Grades:** 9-12  
**Course Length:** Year  
**Description:** This course provides a basic understanding and skills needed in handling rational expression, inequalities, formulas, equations, and systems of equations and problem solving.

**Course Name:** 02072 Geometry **Grades:** 10-12  
**Course Length:** Year  
**Description:** Geometry is an introduction into logical reasoning, both inductive and deductive. Topics for this course include points, lines, and planes; angles and their measures; reasoning and proof; congruent triangles; properties of triangles; quadrilaterals; coordinate geometry and transformations; and similarity. Additionally, students will be exposed to trigonometry as well as algebraic ties to geometric proofs.

**Course Name:** 02056 Algebra II **Grades:** 10-12  
**Course Length:** Year  
**Description:** This course is an extension of material presented in Algebra I and Geometry. Topics for this course include Linear Equations and Factoring, Matrices, Quadratic Functions, Rational Functions, Polynomials, Exponents and Logarithms, and Conic Sections. Additionally, work will be done with trigonometry, probability and statistics, and analytic geometry.

**Course Name:** 02110 Pre-Calculus **Grades:** 11-12  
**Course Length:** Year  
**Description:** Pre-calculus is a continuation of topics covered in Algebra 2, including trigonometry, polynomials, functions and their inverses, equations, and complex numbers. New topics include conic sections and polar graphs, matrices, and statistics. The course concludes with an introduction to calculus through sequences, limits, and derivatives. **Prerequisite Algebra 2**

**Course Name:** 02059 Transition to College Algebra **Grades:** 12  
**Course Length:** Year  
**Description:** This course is an extension of material presented in Algebra 2 designed to prepare students for further mathematical education. Topics for this course include a review of algebra, trigonometric functions, trigonometric identities and equations, statistics and data analysis, and probability and statistics. Upon completion of this course, students should be prepared to enroll in a College Algebra/Pre-Calculus level course.

**Course Name:** 10001 College Algebra **Grades:** 12  
**Course Length:** Semester  
**Description:** This is College Algebra taught at the high school for concurrent college and high school credit.

**Course Name:** 02121 Calculus **Grades:** 12  
**Course Length:** Year  
**Description:** Calculus courses include the study of derivatives, differentiation, integration, the definite and indefinite integral, and applications of calculus. Typically, students have previously attained

knowledge of pre-calculus topics (some combination of trigonometry, elementary functions, analytic geometry, and math analysis).

### **Social Science**

**Course Name:** 04051 World History **Grades: 10**  
**Course Length:** Year  
**Description:** World History is a record of the adventures of humankind – both the famous and the ordinary – throughout thousands of years. By studying World History, you can understand the past and recognize its contribution to the present and future. This class will examine people and events from the World Exploration to the twentieth century. This class will encompass historical themes based on the set state standards for World History: cooperation/conflict, revolution/reaction, change, diversity/uniformity, regionalism/nationalism, innovation, cultural diffusion, movement, and relation to environment.

**Course Name:** 04101 American History **Grades: 11**  
**Course Length:** Year  
**Description:** The purpose of this course is to give students a comprehensive, balanced understanding of the history of our nation through to its present state. It will focus on primary documents such as famous speeches, letters, diary entries, etc. This course will also prepare students for the senior level as well as college by emphasizing important skills such as taking lecture notes effectively, reading critically, thinking analytically, and writing persuasively. We study not only names, dates, and places, but more importantly the IDEAS behind the events and their ensuing consequences.

**Course Name:** 04151 American Government **Grades: 12**  
**Course Length:** Semester  
**Description:** This is an introductory course in American government and politics. It is designed to provide an overview of the structure and foundation of the American government with a particular focus on the relationship between individuals, communities, and their government. The course will begin with a review of the philosophers that influenced the founding fathers and will then turn to an examination of the United States Constitution and the role of the President, Judiciary, and the Congress in addressing the changing needs of the American public. We will also examine in detail a wide variety of other topics including civil rights, campaigns and elections, the media, and the public policy process. Other forms of government will also be presented in relation to our own.

**Course Name:** 12105 Economics **Grades: 12**  
**Course Length:** Semester  
**Description:** This is an introductory course in Economics. It is designed to provide an overview of economic principles such as economic philosophies, supply and demand, inflation/deflation, budgets, the Federal Reserve, and the Stock Market.

**Course Name:** 04064 Contemporary World Issues **Grades: 9-12**  
**Course Length:** Semester  
**Description:** This course will study the political, economic, and social issues facing the 21<sup>st</sup> century world, including situations arising around increased globalization. (International Relations)

**Course Name:** 04152 Landmark Supreme Court Cases **Grades:** 9-12  
**Course Length:** Semester  
**Description:** This course will examine Supreme Court cases that have historically been determined to have changed the course of or greatly affected American society.

**Course Name:** 04258 Sociology **Grades:** 10-12  
**Course Length:** Semester  
**Description:** Sociology is an introduction to the natures of organization and activities of human groupings – family, community, crowd, social class, etc.; structure and function of institutions, social influences, personality, behavior in society, and social change.

### Science

**Course Name:** 03159 Physical Science **Grades:** 9-12  
**Course Length:** Year  
**Description:** This required class is a practical study of the relationship between matter and energy. The program offers a relevant introduction to physical laws and chemical processes. Complex ideas are presented simply and developed logically. Scientific principles are reinforced by activities and questions placed within each chapter. The development and reinforcement of thinking and manipulative skills are the major goals.

**Course Name:** 03006 Meteorology **Grades:** 9-12  
**Course Length:** Semester  
**Description:** Meteorology courses examine the properties of the earth's atmosphere. Topics usually include atmospheric layering, changing pressures, winds, water vapor, air masses, fronts, temperature changes and weather forecasting.

**Course Name:** 03004 Astronomy **Grades:** 9-12  
**Course Length:** Semester  
**Description:** Astronomy courses offer students the opportunity to study the solar system, stars, galaxies, and interstellar bodies. These courses usually introduce and use astronomic instruments and typically explore theories regarding the origin and evolution of the universe, space, and time.

**Course Name:** 14000 Intro to Health Care **Grades:** 9-12  
**Course Length:** Semester  
**Description:** This course provides student with the basic knowledge of health/wellness professionals in private business and industry, community organizations, and health care settings, as well as job opportunities, wage, and duties. This class includes instruction in personal health, community health and welfare, nutrition, epidemiology, disease prevention, fitness and exercise, and health behaviors that are associated with various health careers. *\*CTE Introductory Course*

**Course Name:** 03051 Biology **Grades:** 10-12  
**Course Length:** Year  
**Description:** This course is intended to be an introduction of the study of life. Emphasis will be placed on the characteristics of life and the cell as the basic unit. Introductions to biochemistry, respiration, photosynthesis, mitosis, meiosis, and basic genetics as well as evolution, and environmental issues may be included in this course. *\*CTE Introductory Course*

**Course Name:** 03061 Zoology **Grades:** 10-12  
**Course Length:** Semester  
**Description:** Zoology courses provide students with an understanding of animals, the niche they occupy in their environment or habitat, their life cycles, and their evolutionary relationships to other organisms. These courses should also help students develop an awareness and understanding of biotic communities.

**Course Name:** 03008 Earth / Space Science **Grades:** 11-12  
**Course Length:** Year  
**Description:** This course offers an introduction to Geology, Oceanography, Meteorology, and Astronomy. Geology will focus on identifying different minerals and rocks, as well as, constructive and destructive processes within and on the Earth. Oceanography will focus on the structure of the oceans and oceanic crust, and the role of the oceans on a global scale. Meteorology will focus on the study of the atmosphere and its weather systems. Astronomy will focus on Sun-Earth-Moon systems, stars, and galaxies.

**Course Name:** 03063 Biology Topics **Grades:** 11-12  
**Course Length:** Year  
**Description:** This course will give students an introduction into topics that were not included in the regular biology class. Topics may include ecology, microbiology, botany and forensic science. Students will study how organisms interact with their environment. Subjects may include the biosphere, population and community ecology, ecosystems and conservation biology, and the human impact on the environment. Students will develop a general understanding of microbes, prokaryotic and eukaryotic cells, and the three domain systems. Additional topics may include bacterial control, cell structure, fungi, protozoa, viruses and immunity. Plants and the environment, anatomy of plants, metabolism, diversity of plants, and plants in society will also be studied. Aspects of forensic science will be included if time permits. Students interested in health, medicine, and/or wildlife should take this course. **Prerequisite: Biology**

**Course Name:** 03053 Anatomy & Physiology **Grades:** 11-12  
**Course Length:** Year  
**Description:** Usually taken after a comprehensive initial study of biology, Anatomy and Physiology courses present the human body and biological systems in more detail. In order to understand the structure of the human body and its functions, students learn anatomical terminology, study cells and tissues, explore functional systems (skeletal, muscular, circulatory, respiratory, digestive, reproductive, nervous, and so on), and may dissect mammals. **Prerequisite: Biology (C or above)** \*CTE Technical Course

**Course Name:** 44224 Forensics Science **Grades:** 11-12  
**Course Length:** Semester  
**Description:** This course will allow students to explore concepts in crime relating to biology, chemistry, earth science, and physics. Topics may include documentation of crime scenes, collecting evidence, and fingerprinting. It may also include working with blood, hair, fiber, and trace evidence. Additional topics may be developed depending on the needs of the students in the class. \*CTE Application Course

**Course Name:** 03151 Chemistry **Grades:** 11-12  
**Course Length:** Year  
**Description:** This course will study matter and the changes it may undergo. First semester is devoted to mastering the basics in chemistry formulas, equations, problems, and basic reactions. Second semester is devoted to a study of families of elements, metallurgy and an introduction to organic chemistry. Commercial uses of important elements and their compounds are stressed. This course is recommended for junior students interested in pre-med., pre-veterinarian, nursing, engineering, and research and for college-bound students. *\*CTE Introductory Course*

**Course Name:** 03151 Physics **Grades:** 12  
**Course Length:** Year  
**Description:** Physics is the mathematical study of man's physical environment. Motion, light, electricity, and atomic physics are the main areas of study. A strong math background is necessary.  
*Prerequisite: Algebra I & II and Geometry*

**Course Name:** 36053 Home Health Aide **Grades:** 11-12  
**Course Length:** Semester  
**Description:** This course will teach students how to care for individuals within their homes. Course content will include patient care, comfort, and safety; anatomy and physiology; the prevention of disease and infection; nutrition and meal preparation; human relations; and first aid and CPR. Additional topics that must be included to receive a full credit are therapy strategies, household management and employability. **Taken at Flint Hills Technical College** *\*CTE Application Course*

**Course Name:** 44050 First Aid/CPR **Grades:** 12  
**Course Length:** Semester  
**Description:** A technical level course designed to instruct students in the requirements and skills to obtain national certifications for First Aid, CPR and Emergency Medical Responder. **Taken at Flint Hills Technical College** *\*CTE Technical Course*

**Course Name:** 14997 Certified Nursing Assistant **Grades:** 12  
**Course Length:** Semester  
**Description:** Health Care Sciences – Independent Study courses, often conducted with instructors as mentors, enable students to explore health-related topics of interest. Independent Study courses may provide students with an opportunity to expand their expertise in a particular specialization, to explore a topic in greater detail, or to develop more advanced skills. **Taken at Flint Hills Technical College** *\*CTE Application Course*

### **Fine Arts**

**Course Name:** 05154 Intro to Art **Grades:** 9-12  
**Course Length:** Year  
**Description:** Explore a variety of art mediums and techniques including collage, drawing, painting, sculpture and ceramics. Learn about why artists make art. We study various art styles, such as representational, abstract, and stylized art. The class will be introduced to the Elements and Principles of Design.

**Course Name:** 05155 Advanced Art **Grades:** 10-12  
**Course Length:** Semester or Year  
**Description:** This class builds on the skills introduced in Intro to Art. Students will explore and develop their skills in 2-dimensional work such as pencil, colored pencil, pastel, acrylic, watercolor, charcoal, ink, and computer graphics. Prerequisite: Intro to Art.

**Course Name:** 05159 Ceramics & Sculpture **Grades:** 10-12  
**Course Length:** Semester or Year  
**Description:** This is a 3-dimensional class where students will model, carve, and assemble clay and other carious materials into a composition using tools and techniques. In addition, students will also develop skills and techniques using the potter's wheel. Prerequisite: Intro to Art

**Course Name:** 05167 Photography **Grades:** 9-12  
**Course Length:** Semester  
**Course Description:** This introductory class in digital photography will familiarize the student with equipment, software, materials, and methods through hands-on practice and assigned projects. Students must have a digital camera and a flash drive.

**Course Name:** 05165 Crafts **Grades:** 10-12  
**Course Length:** Semester  
**Description:** This class that includes jewelry, recycled art, printmaking, book making, mixed media, polymer clay, and collage. Prerequisite: Intro to Art.

**Course Name:** 05197 Art Study **Grades:** 11-12  
**Course Length:** Year  
**Description:** This is for students who are highly motivated and are willing to work independently in a specific area of study. The will be monitored and guided by the instructor. Prerequisite: Intro to Art, 1 year of Advanced Art, and permission of the instructor.

**Course Name:** 05199 Art Murals and Theater Design **Grades:** 11-12  
**Course Length:** Year  
**Description:** We will learn techniques for painting murals, flats and creating props for theatre. Prerequisite: Intro to Art and 1 additional year of Art, Theatre or Woodworking

**Course Name:** 05999 Choir **Grades:** 9-12  
**Course Length:** Year  
**Description:** Choir is an elective course open to all students. The choir works the first semester on music for the Veteran's Program and Christmas music for the annual Senior Citizens Dinner, Christmas Program, and the Fall Musical Production. The second semester includes, performing at sporting events, league and state contest and the Spring Concert. The choir usually ends the year with a possible tour and performance at graduation.

**Course Name:** 05102 Band **Grades:** 9-12  
**Course Length:** Year  
**Description:** Band is an elective course open to all students who play an instrument. During Football season the band marches at all home games, band contests and parades, weather permitting. During

basketball season the band plays at all home games and League Music contest in March. The band's main concern second semester is concert/contest music. Grading is primarily through attendance, participation at performances and attitude. Trips for the band usually include marching contests, Americus Fall Festival, Veteran's Day Parade in Emporia, and State Contest. A spring tour of some kind is usually planned every other year.

**Course Name:** 05118 Music Appreciation **Grades:** 9-12  
**Course Length:** Semester  
**Description:** The purpose of music appreciation is to explore all aspects of music from artists and composers to instrumentation and theory. We will also look at different genres from classical to rock/pop. The class will learn about different instruments as well as play them.

**Course Name:** 05108 Guitar **Grades:** 9-12  
**Course Length:** Semester  
**Description:** The purpose of the guitar class is to learn basic chords for beginners and develop techniques for more advanced students. Student will need to provide their own guitar.

**Course Name:** 01152 Forensics **Grades:** 9-12  
**Course Length:** Semester  
**Description:** This course studies various types speaking and acting events. Students are required to *prepare* and perform a variety of pieces in competition. Students are required to participate in three tournaments and have three pieces prepared for presentation. In addition, the class studies theatrical performances and presents a play. Students may enroll in this semester class yearly as the material each year is different.

**Course Name:** 05052 Theatre **Grades:** 9-12  
**Course Length:** Semester  
**Description:** This course focuses on the study and performances and presents a play. Students may enroll in this semester class yearly as the material each year is different.

### Foreign Language

**Course Name:** 06101 Spanish I **Grades:** 9-12  
**Course Length:** Year  
**Description:** This class is taught through Edgenuity for beginning Spanish learners. This interactive course focuses on reading, writing, listening, and speaking along with exposure to Hispanic culture and the integration of technology.

**Course Name:** 06102 Spanish II **Grades:** 10-12  
**Course Length:** Year  
**Description:** This class is taught through Edgenuity for advanced beginning learners to intermediate learners. Students will have prior Spanish knowledge. Prerequisite: Spanish I

Other opportunities for foreign languages upon approval and available through online curriculum with Edgenuity. *Fees apply*

## Human Services/FACS

*Students completing a CTE pathway may be able to obtain college credit through articulated agreements Northern Heights High School has with area technical colleges, four-year colleges, and community colleges if meeting requirements of the post-secondary institution. Students should enroll and complete classes in the following order Introductory, Technical, and then Application.*

**Course Name:** 22207 Career and Life Planning **Grades:** 9  
**Course Length:** Semester  
**Description:** Discover the skill and knowledge to be successful in families, careers, and communities. This course introduces the student to consumer skills, wellness practices, relationship skills, family issues, and self-development. *\*CTE Introductory Course*

**Course Name:** 30110 Essentials of Fashion, Apparel & Interior Design (F.A.I.D.) **Grades:** 9-12  
**Course Length:** Semester  
**Description:** Essentials of Fashion, Apparel, & Interior Design introduces students to and expands upon the various aspects of industry, conveying the commercial application of principles and elements of design, production processes, and maintenance techniques to meet the design needs of humans. This course will also provide a discussion and exploration of career opportunities in interior, textiles, and set/exhibit design. *\*CTE Technical Course*

**Course Name:** 30111 Fashion Trends **Grades:** 9-12  
**Course Length:** Semester  
**Description:** A trend in Interior and Textile Design examines special topics in interiors and apparel that meet the needs of humans now and projected in the future, rather than providing a general study. Topics include sustainable design, shelter/apparel for diverse populations (such as aging, special needs, etc.), and how trends are developed. Additional topics will be generated as trends are identified. *\*CTE Technical Course*

**Course Name:** 19201 Apparel Production I **Grades:** 9-12  
**Course Length:** Semester  
**Description:** Introduces students to and expand upon the various aspects of apparel, garment construction, and the textile industry, conveying the commercial application of design principles, production processes, and maintenance techniques. This course usually addresses the selection, characteristics, care, and repair of various textiles; operation and care of commercial sewing machines; design, construction, and production of fabrics and/or garments; and career opportunities in the garment or textile industry. *\*CTE Technical Course*

**Course Name:** 19203 Apparel Production II **Grades:** 10-12  
**Course Length:** Semester  
**Description:** This course provides students with the knowledge and skill to construct, alter, and repair clothing and textile products. Course topics typically include taking measurements, creating and preparing patterns, and various sewing techniques; topics may also include customer service, fashion design principles, and business management. This course may also offer specialized knowledge in a particular type of garment. *\*CTE Technical Course*

**Course Name:** 19263 Interior Design I **Grades:** 9-12  
**Course Length:** Semester  
**Description:** In this course students will integrate foundational knowledge, skills and practices for careers in housing, furnishings and interiors. *\*CTE Technical Course*

**Course Name:** 22212 Interior Design II **Grades:** 10-12  
**Course Length:** Semester  
**Description:** An application level course designed to instruct students in skills necessary to design interior spaces that apply design elements and principles to spaces for residential and special needs (e.g. single family homes, multi-family structures, homes for special needs, childcare centers, retirement homes, etc.). Topics will include meeting client's needs, legislated codes, historic considerations, current and future trends, and public policy. *\*CTE Technical Course*

**Course Name:** 30112 F.A.I.D. Merchandising & Entrepreneurship **Grades:** 9-12  
**Course Length:** Semester  
**Description:** Essentials of Interior and Textile Design introduces students to and expands upon the various aspects of industry, conveying the commercial application of principles and elements of design, production processes, and maintenance techniques to meet the design needs of humans. This course will also provide a discussion and exploration of career opportunities in interior, textiles and set/exhibit design. *\*CTE Technical Course*

**Course Name:** 08057 Nutrition and Wellness **Grades:** 9-12  
**Course Length:** Semester  
**Description:** In this course students will learn about practices that enhance individual and family well-being. Evaluate nutritional needs and dietary guidelines. Physical, emotional, and social health are addressed. Healthy and unhealthy lifestyles are analyzed. *\*CTE Technical Course*

**Course Name:** 16052 Culinary Essentials **Grades:** 9-12  
**Course Length:** Semester  
**Description:** In this course students will study the food pyramid, nutritional needs, and dietary guidelines more in-depth. Learn basic food preparation by demonstrating skills necessary with each food group. Healthy meal planning and choices are emphasized. *\*CTE Technical Course*

**Course Name:** 45004 Human Growth and Development **Grades:** 10-12  
**Course Length:** Semester  
**Description:** Students will learn about the principles of growth and development across the life span. Strategies for relationships in family, work, and communities will be analyzed. *\*CTE Technical Course*

**Course Name:** 22208 Family Studies **Grades:** 10-12  
**Course Length:** Semester  
**Description:** Emphasis will be placed on strengthening the lives of individuals, families, and relationships. Analyze parenting roles and responsibilities and study family systems and society. *\*CTE Technical Course*

**Course Name:** 19052 Foundation to Early Childhood Development **Grades:** 10-12  
**Course Length:** Year  
**Description:** Child Development classes provide students with knowledge about the physical, mental, emotional, and social growth and development of children from conception to pre-school age, emphasizing the application of this knowledge in child care settings. These courses typically include related topics such as the appropriate care of infants, toddlers, and young children. *\*CTE Technical Course*

**Course Name:** 19098 Early Childhood Applications **Grades:** 11-12  
**Course Length:** Year  
**Description:** Workplace Experience courses provide students with work experience in fields related to caring for others. Goals are typically set cooperatively by the student, teacher, and employer (although students are not necessarily paid). These courses may include classroom activities as well, involving further study of the field or discussion regarding experiences that students encounter in the workplace. *\*CTE Application Course*

**Course Name:** 22275 & 22270 Career & Community Connections **Grades:** 11-12  
**Course Length:** Semester  
**Description:** This course analyzes career paths that are available in relationship to your education and personal goals. Study job skills, strategies, and responsibilities necessary in the work environment and learn about multiple life roles in family, work, and community. *\*CTE Application Course*

### **Vocational Agricultural**

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**Course Name:** 18001 Intro to Agriculture **Grade:** 9-10  
**Course Length:** Year  
**Description:** This is an introductory course to the world of Agriculture and Agribusiness. The course is designed to introduce students to the areas taught in the advanced classes offered in the North Lyon County Ag Science Curriculum. These areas include: agricultural careers, FFA information, leadership information, agriculture issues, plant science, animal science, and agriculture mechanics. Leadership development opportunities will be provided by the local FFA Chapter. Students will learn to use financial management software to maintain personal and financial records as part of their Supervised Agriculture Experience Program. *\*CTE Introductory Course*

**Course Name:** 18101 Animal Science **Grade:** 10-11  
**Course Length:** Year  
**Description:** Prerequisite - Ag Science This class is designed to cover all aspects of the American large animal science industry. The course will primarily cover food animal science as well as aspects of the animal food industry. Students will have the opportunity to gain leadership experience through involvement in the local FFA Chapter. Students will be expected to maintain records as part of their Supervised Agriculture Experience Program. *\*CTE Technical Course*

**Course Name:** 18401 Ag Mechanics **Grade:** 10-11  
**Course Length:** Year  
**Description:** Prerequisite - Ag Science This course is intended to provide an overview of the agriculture structural industry. Topics covered will include welding, woods, electricity, and plumbing. Students will have the opportunity to build a small woods or metals project at the end of the school year at their own expense. Students will have the opportunity to gain leadership experience through involvement in the local FFA Chapter. Students will be expected to maintain records as part of their Supervised Agriculture Experience Program. *\*CTE Technical Course*

**Course Name:** 18058 Plant and Soil Sciences **Grade:** 10-11  
**Course Length:** Year  
**Description:** Prerequisite - Ag Science This class is designed to cover all aspects of the agronomy industry. The course will cover topics in the areas of botany, agronomy, soil science, as well as topics in natural resource management and biotechnology. Students will have the opportunity to gain leadership experience through involvement in the local FFA Chapter. Students will be expected to maintain records on their Supervised Agriculture Experience Program. *\*CTE Technical Course*

**Course Name:** 18402 Advanced Agricultural Mechanics **Grade:** 11-12  
**Course Length:** Year  
**Description:** Prerequisites - Ag Science and Ag Mechanics This course is intended to provide an overview of the agriculture mechanics industry. Topics covered will include welding, woods, and small engines. Students will have the opportunity to build a woods or metals project at the end of the school year at their own expense. Students will have the opportunity to gain leadership experience through involvement in the local FFA Chapter. Students will be expected to maintain records as part of their Supervised Agriculture Experience Program. *\*CTE Technical Course*

**Course Name:** 18201 Ag Business **Grade:** 12  
**Course Length:** Year  
**Description:** Prerequisite - Ag Science This course is intended to cover all aspects of the American agribusiness system. The course will cover areas ranging from financial recordkeeping, agriculture commodity marketing, agriculture sales, agriculture communications and agriculture employment. Students will have the opportunity to gain leadership experience through involvement in the local FFA Chapter. Students will be expected to maintain records as part of their Supervised Agriculture Experience Program. *\*CTE Application Course*

**Course Name:** 18048 Internship in Ag **Grade:** 12  
**Course Length:** Year  
**Description:** This course provides students the opportunity to gain knowledge and skills for various Agriculture Careers. Students will provide a detailed log of experiences and hours while participating. *\*CTE Application Course*

### **Business**

*Students completing a CTE pathway may be able to obtain college credit through articulated agreements Northern Heights High School has with area technical colleges, four-year colleges, and community colleges if meeting requirements of the post-secondary institution. Students should enroll and complete classes in the following order Introductory, Technical, and then Application. All CTE classes do not have to be in Business, completing an introductory course in the Agriculture or FACS department may qualify.*

**Course Name:** 12050 Business Essentials **Grades:** 9  
**Course Length:** Semester  
**Description:** This is a core course designed to give students an overview of the business, marketing and finance career cluster occupations. Introductory level course for those interested in learning about different areas of business including; job skills, resume building, how to get a job, and operating a business.  
*\*CTE Introductory Course*

**Course Name:** 10004 Computer Applications **Grades:** 9-10  
**Course Length:** Year  
**Description:** This course explores a wide range of applications, including (but not limited to) word-processing, spreadsheet, graphics, and database programs, and they may also cover the use of electronic mail and desktop publishing. Course is project based and students apply techniques learned with the development of projects. *\*CTE Introductory Course*

**Course Name:** 12009 Business Communications **Grades:** 9-12  
**Course Length:** Semester  
**Description:** Business Communications courses help students to develop an understanding and appreciation for effective communication in business situations and environments. Emphasis is placed on all phases of communication: speaking, listening, thinking, responding, reading, writing, communicating nonverbally, and utilizing technology for communication. Business communication functions, processes, and applications in the context of business may be practiced through problem-based projects and realworld application. *\*CTE Technical Course*

**Course Name:** 12107 Investing **Grades:** 10-12  
**Course Length:** Semester  
**Description:** This course is designed to acquaint students with the knowledge and skills necessary to understand how the stock market works, how to build a portfolio for different stages of life and an understanding of stocks, bonds, mutual funds, index funds and ETFs. Students learn to calculate and understand various financial analysis tools and how to research companies and stocks. They will participate in the Stock Market Game. *\*CTE Technical Course*

**Course Name:** 12101 Banking & Finance **Grades:** 10-12  
**Course Length:** Semester  
**Description:** This course is designed to acquaint students with the knowledge and skills necessary to understand the Federal Reserve and money supply, characteristics of money, how banking, lending and credit work, corporate finance fundamentals, financial calculations used in banking and corporate finance and finance and banking careers. *\*CTE Technical Course*

**Course Name:** 12104 Accounting I **Grades:** 10-12  
**Course Length:** Year  
**Description:** This course introduces students to accounting concepts, principles, cycle, and equation. It provides the skills, knowledge, and attitudes necessary for individuals to conduct personal business or to further their education in the field of accounting. *\*CTE Technical Course*

**Course Name:** 12052 Business Management **Grades:** 10-12  
**Course Length:** Semester  
**Description:** This course emphasizes the tasks and responsibilities of managing a business operation. Including the challenges of hiring employees, developing schedules while meeting the demands of customers. While studying management students will not only consider the business side but the consumer side as well in order to resolve problems that may arise in their business. *\*CTE Technical Course*

**Course Name:** 12053 Entrepreneurship **Grades:** 10-12  
**Course Length:** Semester  
**Description:** This course is designed to acquaint students with the knowledge and skills necessary to own and operate their own businesses. Students will own and operate a business enterprise as a class and work to develop a business plan for a potential business they are interested in owning and operating. *\*CTE Technical Course*

**Course Name:** 11154 Graphic Design **Grades:** 10-12  
**Course Length:** Year  
**Description:** This course is designed to teach students to use artistic techniques to effectively communicate ideas and information to business and customer audiences via illustration and other forms of digital or printed media. Topics covered may include concept design, layout, paste-up and techniques such as silkscreen, lithography, offset, drawing and cartooning, painting, collage and computer graphics. Students interested in being in Media Technology in future years and working on the school yearbook should take this course. *\*CTE Technical Course*

**Course Name:** 8005 Interactive Media **Grades:** 10-12  
**Course Length:** Year  
**Description:** Interactive Media courses provide students with the knowledge and skills to create, design, and produce interactive media products and services. The courses may emphasize the development of digitally generated and/or computer-enhanced media. Course topics may include 3D animation, graphic media, web development, and virtual reality. Upon completion of these courses, students may be prepared for industry certification. *\*CTE Technical Course*

**Course Name:** 10201 Web Page Design **Grades:** 10-12  
**Course Length:** Year  
**Description:** This course enables students to apply design techniques and develop web pages. Students will learn and apply both HTML coding techniques as well as using Adobe Dreamweaver to create their own web page. Students will work to update and maintain the high school web site as well as take on outside jobs for area businesses interested in developing web pages for their business. *\*CTE Technical Course*

**Course Name:** 12104 Accounting II (*College Accounting*) **Grades:** 11-12  
**Course Length:** Year  
**Description:** This course expands upon the fundamental accounting principles and procedures used in businesses. Course content typically includes the full accounting cycle, payroll, taxes, debts, depreciation, ledger and journal techniques, and periodic adjustments. Students must complete Accounting I prior to enrollment. Students may qualify to obtain college credit upon passing exit exam. *\*CTE Application Course*

**Course Name:** 32200 Applied Business Development **Grades:** 10-12  
**Course Length:** Year  
**Description:** Applied Business Development students will practice skills of planning, organizing, directing and controlling functions of operating a business while assuming the responsibilities and risks involved. Students will develop skills in enterprise development, market analysis and financial preparation. These courses includes classroom activities as well as involving further study of the field and discussion regarding real-world experiences and applications that students encounter in owning and managing a business. Students should complete Technical level course prior to enrollment. \*CTE Application Course

**Course Name:** 31096 Project Management and Resource Scheduling **Grades:** 10-12  
**Course Length:** Year  
**Description:** Project Management courses provide students with the information and skills necessary for success in managing projects and operating logistical ventures in technology, business, and industry. \*CTE Application Course

**Course Name:** 10204 Media Technology **Grades:** 11-12  
**Course Length:** Year  
**Description:** The purpose of this class is to develop the high school yearbook and two grade school yearbooks. Many skills are learned in this course, including, but not limited to financing, page layout, deadline requirements, and teamwork. This project is a joint effort. We publish both the soft cover and hard cover yearbooks in-house – cover to cover. It takes everyone to accomplish the task. Prerequisite: Approval of the instructor\*CTE Application Course

**Course Name:** 22210 Financial Literacy **Grades:** 11-12  
**Course Length:** Semester  
**Description:** This course introduces students to the financial issues they will face as consumers. A study of personal business management provides students with the skills, knowledge, and attitude necessary for individuals to make the best use of financial resources. Students will learn techniques and responsibilities of financing their future educational and lifestyle needs.\*CTE Technical Course

### **Physical Education**

**Course Name:** 08049 Physical Education **Grades:** 9  
**Course Length:** Year  
**Description:** This required course introduces the student to a variety of physical activities and sports. The emphasis of physical education is placed on learning and demonstrating the fundamental skills and rules of each activity. Also, students will gain experience in leadership, cooperation, and personal hygiene.

**Course Name:** 08009 Weights & Conditioning **Grades:** 9-12  
**Course Length:** Year or Semester  
**Description:** The weights and conditioning course focuses on the student becoming physically fit through the use of weight training exercises, plyometric exercises, endurance exercises, and speed and agility exercises. The student will be tested and timed for progress. The student enrolling in this course should strive to build muscular strength, power, and endurance of the hips, legs, trunk and shoulders for the purpose of improving physical fitness, athletic performance, and the prevention of injury.

**Course Name:** 08005 Body Blast **Grades:** 10-12  
**Course Length:** Year or Semester  
**Description:** Body Blast is primarily a total body muscle building class with optional cardio bursts sprinkled in. We will start off with a 5 minute warm up then go right into muscle work. Various modifications will be modeled so the intensity will be up to the individual.

### Other Electives

**Course Name:** 08152 Driver Education **Grades:** 9  
**Course Length:** 9-week plus driving time  
**Description:** The purpose of the Driver Education program is to provide the drivers of tomorrow with a solid fundamental base of information and skills necessary to become a safe driver. The textbook used, "Drive Right", is divided into 4 units which will be covered in a nine-week period as part of a core class. The student will be tested over the 4 textbook units, the Kansas Driver Handbook, and a cumulative final test. The student must pass each test with a minimum of eighty percent mastery. For the driving portion of the class each student will complete all driving tasks with a minimum of eighty percent competency.

**Course Name:** 22003 Success Skills **Grades:** 9  
**Course Length:** Quarter  
**Description:** The purpose of the course is to help develop skills for student's future success. Topics include: Academic Success (organization, time management, goal setting), Development of Leadership Skills and Collaboration Skills, Emotional Management, Self-Promotion and Growth Mindset.