



# Boone Central High School

## 2023-2024 Course Description Book

605 S. 6<sup>TH</sup> Street  
Albion, NE 68620  
402-395-2134

[www.boonecentral.org](http://www.boonecentral.org)



Boone Central Schools does not discriminate on the basis of race, color, national origin, sex, disability, marital status, or age in admission or access to, or treatment of employment, in its programs or activities. It is the intent of the Boone Central Schools to comply with both the letter and the spirit of the law in making certain discrimination does not exist in its policies, regulations, and operations. Grievance procedures have been established for anyone who feels discrimination has been shown by Boone Central Schools. Inquiries regarding grievance procedures or the application of these policies of nondiscrimination can be obtained by contacting the Superintendent of Schools, 605 South 6<sup>th</sup> Street, PO Box 391, Albion, NE 68620; phone [402-395-2134](tel:402-395-2134). The Superintendent is the designated coordinator for Title IX, Title VI, and Section 504.

# Registration Information

It is essential that students, parents, and the school counselor collaborate to select the most appropriate courses for the student. After considering the student's career goals and teacher recommendations, complete the registration form and return with a parent's signature

Please consider the following questions when selecting your courses:

1. What courses do I need to take to meet graduation requirements for Boone Central High School?
2. What courses do I need to take to meet admission requirements for the technical school, college, or university, which I expect to attend after high school?
3. What courses best fit my abilities, needs and interests?
4. What courses will best prepare me to meet my responsibilities in the home, community, and work I expect to do?

## Boone Central Graduation Requirements

Students must earn at least 235 credit hours to be eligible for a diploma from Boone Central. A typical full year's course held every day for one period would give a student 10 semester hours of credit. A course held for one semester meeting everyday would give students 5 credit hours.

Graduation requirements for students graduating in 2024 - 2026.	Graduation requirements for students graduating in 2027 and beyond.
<p>English – 40 credits to include            10 credits of either English 9 or Freshman English            10 credits of either English 10 or Sophomore English            10 credits of either English 11 or Junior English            10 credits of either English 12 or Basic English</p> <p>Mathematics – 30 credits</p> <p>Social Studies – 30 credits to include            10 credits of World Studies            10 credits of American History or American Studies            10 credits of American Government/ Modern Problems or Civics</p> <p>Science – 30 credits            10 credits of either Biology or Life Science            10 credits of either Physical Science or General Science            10 credits of any other science class offered</p> <p>Computers – 5 credits from the following list            Digital Media I            Digital Design II            Programming            Web Design</p> <p>Physical Education/Health – 10 credits</p> <p>Speech – 5 credits</p> <p>Economics - 5 credits</p> <p>Personal Finance - 5 credits</p> <p>Electives – 75 credits of electives</p>	<p>English – 40 credits to include            10 credits of either English 9 or Freshman English            10 credits of either English 10 or Sophomore English            10 credits of either English 11 or Junior English            10 credits of either English 12 or Basic English</p> <p>Mathematics – 30 credits</p> <p>Social Studies – 30 credits to include            10 credits of World Studies            10 credits of American History or American Studies            10 credits of American Government/ Modern Problems or Civics</p> <p>Science – 30 credits            10 credits of either Biology or Life Science            10 credits of either Physical Science or General Science            10 credits of any other science class offered</p> <p>Computers – 10 credits to include            5 credits of IT Fundamentals            Min. of 5 credits from the following            Digital Media I            Digital Design II            Programming            Web Design</p> <p>Physical Education/Health – 10 credits</p> <p>Speech – 5 credits</p> <p>Economics - 5 credits</p> <p>Personal Finance - 5 credits</p> <p>Electives – 70 credits of electives</p>
<b>Total = 235 credits</b>	<b>Total = 235 credits</b>

# Post-Secondary Options

## Early College

Students have the option to earn college credit while in high school. Students planning on attending college after high school may choose to take advantage of the different options that Boone Central offers.

Students have the option to apply for the ACE Scholarship to cover tuition expenses for college credits taken while in high school. Eligibility for this scholarship is determined by family financial status. If a student is awarded this scholarship and does not successfully finish the course (withdraws or fails) then an application will not be approved in the following semesters if a student chooses to take another college course.

**Online College Classes** – Students meeting specific criteria and on track for graduation may enroll in an online college class through a college of their choice. Students are allowed one period per college class in which they are enrolled to work on their class. Students have the opportunity to earn credit, providing they earn an “A”, “B”, or “C” in each class. Students are responsible for paying for tuition and books for these classes. Students do not earn high school credit from Boone Central for these classes. It is highly recommended that students check with the technical school, college, or university they plan to attend to ensure that credits will transfer.

**Dual Credit** – Students have the opportunity to earn Boone Central credit as well as college credit at the same time. Boone Central has agreements with Nebraska colleges to give students the chance to fulfill general education requirements they would have to take in college. It is highly recommended that students check with the technical school, college, or university they plan to attend to ensure that credits will transfer. Students must complete dual credit classes with an “A”, “B”, or “C” to earn college credit. Students are responsible for tuition for the college credits, but Boone Central provides the books if the dual credit course is taught by Boone Central instructors (dual credit courses taught online and not on BCHS campus, the student will be responsible for all costs and the course must be preapproved by the school counselor and administration if it is to count towards high school credit).

## University General Admission Requirements

Students need to be aware that course selections in high school impact his/her options after high school. Each technical school, college, or university has certain admission requirements and it is expected that students successfully complete the requirements for technical school, college, or university of his/her choice.

### University of Nebraska – Lincoln, Omaha, and Kearney

Category	Units	University – Wide Requirements		
English	4 years	All courses must include intensive reading and writing experience.		
Math	3 years	Algebra I, Algebra II and Geometry		
Social Studies	3 years	American or World History, American Government or geography, and an additional social science course		
Science	3 years	At least two courses from the following list: Biology, chemistry, physics, or earth sciences; at least one course with laboratory instruction		
Foreign Language	2 years	Must be in the same language.		
		<b>UNL</b>	<b>UNK</b>	<b>UNO</b>
Additional Academic Requirement	1 year	One additional year of math that builds on a knowledge of Algebra	1 additional year from any core category	1 additional year from any core category

**PLUS:** Students must meet **ONE** of the following:

- o Score a 20 or higher on the ACT
- o An SAT combined score of 950
- o GPA of 3.0 (88%) or higher

### Nebraska State College System

Chadron State College, Peru State College, Wayne State College

Admission to the Nebraska State College system is granted to students who have graduated from an accredited Nebraska high school. It is strongly recommended that students take courses that are designed for college preparation. Students must request their ACT scores to be submitted to the college directly from ACT.

### Nebraska Community College System

Admission to the Nebraska Community College system is granted to students who have graduated from an accredited Nebraska high school or completed the requirements for a GED. Students can use the ACT or MAP test scores to assist with placement in courses at Northeast Community College and Central Community College. Students planning to attend Southeast Community College will take the Accuplacer test.

# LANGUAGE ARTS

Required: 40 credits total of English and 5 credits Speech \*indicates course meets requirements

## English 9\*

Grade: 9 Length: Year

Prerequisite: None

NDE Course Code - 05002109 English 9 is a course which meets the general English requirements for students in grade 9 following the college prep curriculum. The course introduces students to the types of literature and writing skills they will need in later courses. Units include novels, vocabulary, grammar and mechanics, short stories, poetry, drama, Greek mythology and writing.

## FRESHMAN ENGLISH\*

Grade: 9 Length: Year

Prerequisite: None

NDE Course Code - 05001109 Freshman English is a course which meets the general English requirements for students in grade 9. The course introduces students to the types of literature and writing skills they will need in later courses. Units include novels, vocabulary, grammar and mechanics, short stories, poetry, drama, Greek mythology and writing. Literature selections are based upon the reading level of the students enrolled. Assessments, projects, and writing assignments are adjusted to meet the needs of students.

## ENGLISH 10\*

Grade: 10 Length: Year

Prerequisite: None

NDE Course Code - 05002210 English 10 meets the requirements for college preparation. It is a comprehensive writing course in which students learn various aspects of writing paragraphs and essays needed for other course work. Also, the students will learn various creative genres in which to express themselves. World literature is emphasized in various forms, including Greek drama, Renaissance Theater, and contemporary drama.

## SOPHOMORE ENGLISH\*

Grade: 10 Length: Year

Prerequisite: None

NDE Course Code - 05001110 Sophomore English satisfies the general English requirements for students in grade ten. Literature and writing are geared to meet a student's reading level. Also after the students work with creative writing, they teach various genres to elementary students.

## ENGLISH 11\*

Grade: 11 Length: Year

Prerequisite: none

NDE Course Code - 05002311 English 11 meets the general English requirement for students in grade 11 following the college prep curriculum. It includes American literature on a reading level at or above grade level, vocabulary building, language and usage, expository writing, and a major research paper. ()

## JUNIOR ENGLISH\*

Grade: 11 Length: Year

Prerequisite: None

NDE Course Code - 05001111 Junior English meets the general English requirements for students in grade 11. It includes contemporary literature by American writers, grammar, punctuation, usage, and vocabulary building. Writing includes the four basic paragraphs, the five-paragraph essay and a research paper. (05001111)

## ENGLISH 12\*

Grade: 12 Length: Year

Prerequisite: None

NDE Course Code - 05002412 Throughout the literature portion of this course, students will experience selected literary works of various time periods and genres. The course will highlight strategies of comprehension, interpretation, and style as they pertain to the time period, place, culture, gender, class, and race. Students will make connections to modern society as they analyze the works as they pertain to societal values and human experience. The composition portion of this course provides instruction and practice in a variety of writing, reading and critical thinking skills, with emphasis on forming experiences, ideas, and opinions into a coherent essay. Specific assignments may vary; however, students can expect to write expressive, analytical and persuasive essays, some of which will involve the use of secondary sources. The course will hone students' grammatical and punctuation skills as needed.

## SENIOR ENGLISH \*

**Grade:** 12      **Length:** Year

**Prerequisite:** None

NDE Course Code - 05001112 This course is designed to provide senior-level graduating students a final review of all the basic skills of proper communication in the English Language. The course will feature an emphasis on writing, reading, and listening comprehension. This course is designed to allow flexibility through independent reading and allows students of differing ability levels to function up to their maximum level of performance.

## READING 9, READING 10, READING 11, AND READING 12 \*

**Grade 9, 10, 11, 12**      **Length:** Year

NDE Course Code - 190520009, 19052010, 19052011, 1902016 This course is open to students in respective grades whose IEP recommends that they be in an independent English Class. Course content will follow the basic English class.

## SPEECH I required course

**Grades:** 10-11      **Length:** Semester

**Prerequisite:** None

NDE Course Code - 05050110 Speech I is a one-semester course required of all students. Its purpose is to improve communication skills. Students will spend time studying the communication process and taking part in small group communication activities to better prepare them for performing in front of the class. The final step will be researching, organizing, writing and delivering a variety of speeches.

## CREATIVE WRITING I

**Grades:** 10-12      **Length:** Semester

**Prerequisite:** For 10th grade students, teacher permission is required; 11th & 12th - none

NDE Course Code - 05010014 Creative writing is a workshop class that emphasizes prose and poetry, which is peer edited. Students work includes journaling, discussion, writing various styles of poetry, as well as prose in various forms, including essays, short stories, and various creative styles. Students are required to publish work of their choice on a class blog monitored by the instructor. The class also produces stories for one month in the Norfolk Daily News: New Voices production.

## CREATIVE WRITING II

**Grades:** 11-12      **Length:** Semester

**Prerequisite:** Creative Writing I

NDE Course Code - 05010015 This class is a continuation of creative writing with an emphasis on journalistic style, plays, songs and longer stories. Poetry will be written with an emphasis in songwriting, photography, etc. Writing will include using technology such as Google Maps to create stories, children's books, and various essays. Peer editing will be used to perfect various forms of writing. At least one work will be submitted for publishing.

## CENTRACARD/JOURNALISM

**Grades:** 11-12      **Length:** Year

**Prerequisite:** None

NDE Course Code - 03993012 CENTRACARD includes yearbook production, copywriting, photography, and advertising. Computer skills are important. Students may be expected to work outside of classroom hours in order to meet yearbook deadlines. Online software used for book production. Journalism is incorporated throughout the course and introduces students to the concept of newsworthiness and press responsibility; develops students' skills in writing and editing stories, headlines, and captions; and teaches students the basis of production design, layout and printing of a publication such as school newspapers and other media broadcasts.

# MATHEMATICS

Required: 30 credits total of Math \*indicates course meets requirements

## PRE-ALGEBRA \*

**Grade:** 9      **Length:** Year

**Prerequisite:** Teacher recommendation

NDE Course Code - 11029909 Pre-Algebra is designed for students who have not completed pre-algebra satisfactorily during the eighth grade. Ratios, volume, area, signed numbers, and simple algebraic equations are covered in this course. Pre-algebra is the foundation course for all other advanced high school math courses. Daily homework is required.

## APPLIED ALGEBRA \*

**Grades:** 10-11      **Length:** Year

**Prerequisite:** Pre-Algebra

NDE Course Code - 11050214 This course includes concepts found in first-year algebra with emphasis on problems and lab experiences which have everyday relevance. Concepts include linear and nonlinear equations, graphing, factoring, function, quadratics, systems of equations and inequalities to solve problems.

## APPLIED GEOMETRY\*

**Grades:** 10-12    **Length:** Year

**Prerequisites:** Applied Algebra

NDE Course Code - 11050315 This course includes concepts found in first year geometry with emphasis on exploring basic relationships through informal proofs and making conjectures by utilizing manipulatives, geometry tools and technology, and applying geometry to real world situations throughout the course. Concepts include the study of lines and angles, right triangle relationships, shapes in two and three dimensions, logic, coordinate geometry, transformations and spatial visualizations.

## ALGEBRA I \*

**Grades:** 9-11    **Length:** Year

**Prerequisite:** Successful completion of Pre-Algebra

NDE Course Code - 11030009 Algebra I is designed to prepare the student for advanced math concepts taught in Geometry and beyond. Solving equations, graphing, algebraic expressions and a brief study of some geometric concepts are covered. Daily homework is required. Graphing calculators are recommended but are not required. TI-83 Plus or TI-84 Plus is preferred. TI-89, TI-92, and TI-Nspire are not allowed.

## GEOMETRY \*

**Grades:** 9-12    **Length:** Year

**Prerequisite:** Successful completion of Algebra I

NDE Course Code - 11120010 (If class is taken by correspondence, must be completed before one can take Algebra II.) Geometry is the study of points, lines, and planes and their interaction in space. The recognition of patterns is an important part of the course. Topics to be covered are similarity and congruence of polygons and circles. Perimeter, area, and volume of shapes will be calculated. Coordinate geometry, formal proofs, isometries, and trigonometric relationships will be covered. A compass and protractor are recommended.

## ALGEBRA II \*

**Grades:** 10-12    **Length:** Year

**Prerequisite:** Successful completion of Geometry

NDE Course Code - 11030611 (If Geometry is taken by correspondence, must be completed before one can take Algebra II.) Algebra II uses algebraic expressions and form for studying functions and modeling real-world situations. Graphing is emphasized, trigonometry is used, and geometry is applied. Graphing calculators are recommended but are not required.. TI-83 Plus or TI-84 Plus is preferred. TI-89, TI-92, and TI-Nspire are not allowed.

## PRE-CALCULUS\*

**Grades:** 11-12    **Length:** Year

**Prerequisite:** Successful completion of Algebra II & Teacher recommendation.

NDE Course Code - 11130015 (If Algebra II is taken by correspondence, must be completed before one can take Pre-Calculus.) The basic concepts of trigonometry and analytic geometry are studied. Successful mastery of concepts will prepare the student to enter first year calculus in college. Graphing calculators are required (the school will have graphing calculators available for check out for the class). TI-83 Plus or TI-84 Plus is preferred. TI-89, TI-92, and TI-Nspire are not allowed.

## COLLEGE ALGEBRA\*

**Grades:** 12    **Length:** Year

**Prerequisite:** Successful completion of Algebra II & Teacher recommendation.

NDE Course Code - 11062212 College Algebra is a mathematics course designed for, but not limited to, high school seniors who plan to pursue a post-secondary education, but are not necessarily bound for the traditional calculus sequence. This course is the study of relations, functions and their graphs, equations and inequalities, polynomial and rational functions, exponential and logarithmic functions, systems of equations and inequalities. Graphing calculators are required. TI-83 Plus or TI-84 Plus is preferred. TI-89, TI-92, and TI-Nspire are not allowed. If Pre-Calculus is passed with 90% or higher, this class is not for you. **An ACT Math score of 21 is recommended in order to register for WSC college credit.**

## CALCULUS\*

**Grade:** 12    **Length:** Year

**Prerequisite:** Pre-Calculus & Teacher recommendation.

NDE Course Code - 11060012 Calculus is a branch of mathematical analysis -- the study of functions. The course combines graphical, numerical, and algebraic points of view to clarify concepts and make them concrete. This course is for students who are interested in a mathematics major, or a science and engineering major in college. Graphing calculators are required. TI-83 Plus or TI-84 Plus is preferred. TI-89, TI-92, and TI-Nspire are not allowed. **An ACT Math score of 25 is recommended in order to register for WSC college credit**

## **MATH 9, MATH 10, MATH 11, MATH 12\***

**Grade 9-12**      **Length: Year**

NDE Course Code - 19112009, 19112010, 19112011, 19112012 Course is open to students in grades 9-12 whose IEP recommends that they be in an independent Math Class. Course content will be designed at their level.

## **SCIENCE**

**Required:** 30 credits total of Science \*indicates course meets requirements

### **LIFE SCIENCE\***

**Grade: 9-10**      **Length: Year**

**Prerequisite: None**

NDE Course Code - 13993009 The differences between living and nonliving things, cell theory, the structures and processes of cells, and the organization of living things will begin the course. A basic understanding of DNA and genetics as well as biological evolution will ensue. The role of biological classification will be considered. The relationships between organisms and their environments and behaviors of organisms will be investigated. Many activities, labs, and projects will be carried out to learn and reinforce the concepts. This course will cover the Nebraska State Academic Science Standards in the areas of inquiry and life science.

### **BIOLOGY\***

**Grade: 9-10**      **Length: Year**

**Prerequisite: None**

NDE Course Code - 13020109 Biology is the beginning science course for students planning on attending a 4-year college or attending a 2-year college in a science related field. Biology includes an in depth study of life vs. non-life, cells and cellular systems, plants, animals, microorganisms, environment, and heredity. The focus of this class is on science process skills. Activities and projects are designed so that students experience and practice these skills. This course will focus on the Nebraska State Academic Science Standards.

### **GENERAL SCIENCE\***

**Grade: 9-10**      **Length: Year**

**Prerequisite: Successful completion of Life Science or Biology**

NDE Course Code - 13993110 In general science, the student will learn of some of the principles in three specific areas: chemistry, physics, and earth and space science. Areas of study include atomic structure, the periodic table, chemical reactions, solutions, bonding, forces, energy, cycles, the beginning and continuation of the solar system/earth, forces that affect the surface of the earth, and environmental issues. This course will cover the Nebraska State Academic Science Standards in the areas of physical sciences and earth and space sciences.

### **PHYSICAL SCIENCE\***

**Grade: 9-10**      **Length: Year**

**Prerequisite: Successful completion of Biology**

NDE Course Code - 13030010 This course includes learning and using facts, concepts, principles, theories and models in the areas of matter, energy, and the earth. Topics covered will be atomic structure, properties of matter, chemical reactions, motion and forces, energy, interactions of energy and matter, energy in the earth's system, geochemical cycles, the origin of the earth and the universe. A scientific calculator is recommended. This course will cover the Nebraska State Academic Science Standards in the areas of physical sciences and earth and space sciences

### **ANATOMY & PHYSIOLOGY\***

**Grades: 10-12**      **Length: Year**

**Prerequisite: Successful completion of Biology and must be either currently enrolled or successfully completed Physical Science.**

NDE Course Code - 13993314 The study of the structure and function of the body's systems and the interrelation of these systems is helpful to anyone who is curious about the human body or to anyone who has a desire to work in a health related field. In anatomy & physiology, concepts are reinforced through the use of a text, classroom discussions, activities, dissections and videos. In addition to the terminology referring to the human body and the knowledge of the structures and functions of the human body, students study the processes of the healthy body and diseases and disorders that upset homeostasis.

### **APPLIED SCIENCE\***

**Grades: 11-12**      **Length: Year**

**Prerequisite: Successful completion of General Science or Physical Science**

NDE Course Code - 13993211 In applied science, students study the areas of life, physical, and earth science and the applications within these fields. Students will be involved in activities so they engage in the science process. Examples of "areas" of study include: Foods, Biotechnology, Basic Chemistry, Solar Systems, Health, and Electricity. Students are expected to be able to participate in hands on type activities.

## CHEMISTRY\*

**Grades:** 11-12 **Length:** Year

**Prerequisite:** Successful completion of Biology, Physical Science and Algebra I.

NDE Course Code - 13030111 Chemistry is the study of the structure and properties of matter and the changes that it undergoes. Some of the material presented in physical science such as measurement, atomic structure, bonding, periodic table, properties of matter, and chemical reactions will be reviewed. Each will be studied more in-depth plus additional topics such as acids and bases, environmental chemistry, and qualitative analysis will be covered. This course is considered to be a high-level academic course and intended for students who are serious about their studies and planning to attend a four-year college. A scientific calculator is needed.

## ADVANCED BIOLOGY\*

**Grades:** 11-12 **Length:** Year

**Prerequisite:** Successful completion of Biology and Physical Science.

NDE Course Code - 13020211 This class is designed for those students who are planning to attend a four-year college following high school. It is expected that students are confident with the main concepts taught in biology. The content and the pace of the course could be considered fairly rigorous. There is a great deal of independent reading, writing, and problem solving. It is designed for those students that are serious about their studies in high school. The laboratory situations call for independence and self-motivation. Therefore, maturity and self-discipline are required for successful completion of this course. The course will include a more in-depth study of a variety of biological areas. Students meeting the requirements as set by Wayne State College may choose to take this class for college credit.

## PHYSICS\*

**Grades:** 11-12 **Length:** Year

**Prerequisite:** Algebra II ( $\geq 80\%$  second semester recommended) Current enrollment in Pre-Calculus or Calculus is recommended.

NDE Course Code - 13030312 Physics is the study of the physical world and mathematical relationships involved. Areas of study include motion, forces, vectors, momentum, work, and different forms of energy. Problem solving is an important aspect of the course. Lab activities, several special projects, and applications that relate to everyday life are included. This course is intended for students who are serious about their studies, have a good mathematical background, and plan to attend a four-year college. Purchase of a scientific calculator is necessary.

## FORENSIC SCIENCE\*

**Grades:** 11-12 **Length:** Semester

**Prerequisite:** Biology

NDE Course Code 13031715 Forensic Science courses incorporate Biology, Chemistry, Physics, Earth Science disciplines and the process of science to the study of crimes. Topics of exploration may include: processing a crime scene, collecting and preserving evidence, physical evidence, organic and inorganic analysis of evidence, trace evidence, toxicology, arson and explosion investigations, serology, DNA, fingerprints, firearms, and document analysis.

## EARTH AND SPACE SCIENCE\*

**Grades:** 11-12 **Length:** Semester

**Prerequisite:** Non3

NDE Course Code 13031415 A deeper dive into topics in Earth Science such as Earth's formation and history, Meteorology, and Astronomy. Earth and Space Science courses introduce students to the study of the earth from a local and global perspective. Common topics of exploration include: time zones, latitude and longitude, atmosphere, geosphere, weather, climate, and matter and energy transfer.

## STEM PHYSICS\*

**Grades:** 11-12 **Length:** Semester

**Prerequisite:** None

NDE Course Code 13041815 A hands on approach to problem based Physics and engineering topics. Units include scientific method and experimental design, catapults, egg drop/bungie, bridges, Rube Goldberg machines, and coding.



# SOCIAL STUDIES

Required: 30 credits total of Social Studies \*indicates course meets requirements

## WORLD STUDIES\*

Grades: 9-10

Length: Year

Prerequisite: None

NDE Course Code - 15080009 Covering 500 CE to Present. Students will review early civilizations and the effect that they have had on world history. Topics covered include: History of Eastern and Western Civilizations (Middle Ages, Renaissance and Reformation, Age of Reason, Revolutions, Imperialism, World Wars, and Contemporary History).

## ECONOMICS (required for all graduates in graduating class of 2024 and beyond)

Grades: 10 - 11

Length: Semester

Prerequisite: None

NDE Course Code - 03180015 Economics is a course designed to help students make decisions and understand economic principles as applied to current events and issues. Emphasis includes allocation of resources, economic systems, economic institutions and incentives, markets and prices, market structures, productivity, role of government, global economic concepts, and economic indicators.

## WORLD HISTORY\*

Grade: 11-12

Length: Semester

Prerequisite: None

NDE Course Code - 15993315 World History includes the study of how the past has influenced modern events and the various contributions that many societies have had on the human spirit. Research papers, essays, primary document readings, and various projects and presentations are assigned throughout the course of the year. This is an elective course and does not meet graduation requirements for social studies.

## AMERICAN HISTORY\*

Grade: 11-12

Length: Year

Prerequisite: None

NDE Course Code - 15082011 American History is a straightforward chronological history of the United States from 1865 to the present. The course focuses on helping students develop a deeper knowledge of history, cultural understanding, democratic understanding and civic values. Research papers, essays, primary document readings, projects and presentations are assigned throughout the course of the year. Earning college credit is a possibility.

## AMERICAN STUDIES\*

Grade: 11-12

Length: Year

Prerequisite: None

NDE Course Code - 15993011 American History is a straightforward chronological history of the United States from 1865 to the present. One goal of the course is to help students develop knowledge of history along with cultural understanding. Another goal is to help students develop democratic understanding and civic values.

## SOCIOLOGY

Grades: 11-12

Length: Semester

Prerequisite: None

NDE Course Code - 15130015 Sociology is a one-semester course that studies the behaviors of people as individuals in groups. The impact of family, religion, and sports on the individual is studied. Reasons for deviant behavior and crime are analyzed. A focus on death and dying is one unit.

## PSYCHOLOGY

Grades: 11-12

Length: Semester

Prerequisite: None

NDE Course Code - 15120015 Psychology is a one-semester college prep course that examines human behavior. Parts of the brain and their function in sensation, perception, thinking, memory, learning, and sleeping are analyzed. Personality, abnormal behavior, therapy, and developmental psychology are also studied. Students do various research and self-analysis projects.

## GOVERNMENT/MODERN PROBLEMS\*

Grade: 11-12

Length: Year

Prerequisite: None

NDE Course Code - 15111012 This course is a year course in which American Government and Modern Problems are incorporated to form a more balanced course. The historical foundation of our Constitution, civil rights, three branches, crime and punishment are studied. Along with this is the studying of the current status of the United States by tracing changes in society through the 50s, 60s, 70s, 80s, and 90s. The students are required to attend four different government meetings throughout the year.

## **CIVICS\***

**Grade: 11-12**      **Length: Year**

**Prerequisite: None**

NDE Course Code - 15111412 This course will cover the various aspects of government in the United States and the responsibilities that citizens have in a free society. Students will go to local government meetings and learn the workings of local governments. Students will also study various governments and economic systems of the world and compare those to the United States.

## **SPANISH**

Recommended: 20 credits of Foreign Lang. for admissions to 4 year colleges and universities

---

### **SPANISH I** ◆

**Grades: 9-12**      **Length: Year**

**Prerequisite: None**

NDE Course Code - 05050110 The course will emphasize the four phases of language learning: listening, speaking, reading, and writing. Basic words and phrases will be practiced as the student learns the structure of the language through culturally based materials. Communication in the present tense will be emphasized.

### **SPANISH II** ◆

**Grades: 10-12**      **Length: Year**

**Prerequisite: Successful completion of Spanish I**

NDE Course Code - 06024210 The course will be a continuation of the beginning level. Students will expand their skills in each language area and practice more complex structures and past tenses.

### **SPANISH III** ◆

**Grades: 11-12**      **Length: Year**

**Prerequisite: Successful completion of Spanish II**

NDE Course Code - 06024311 The course emphasizes the development of the four basic language skills along with increased vocabulary expansion. Most basic tenses and structures of the language are covered, as well as a more in depth look into the culture of Spanish speaking countries.

### **SPANISH IV** ◆

**Grade: 12**      **Length: Year**

**Prerequisite: Successful completion of Spanish III**

NDE Course Code - 06024412 Students will take a more in depth look at cultural themes that affect Spanish speaking countries and grammar structures to help them make connections between the language and their lives. Students will continue to practice all four areas of communication with emphasis on literary skills and expansion of vocabulary in common areas of conversation. AAPPL (ACTFL Assessment of Performance toward Proficiency in Languages) will be offered in the Fall and will be a requirement to be completed in the Spring semester.

---

## **PHYSICAL EDUCATION**

Required: 10 credits total of PE

---

### **PHYSICAL EDUCATION 9/HEALTH**

**Grade: 9-10**      **Length: Year**

**Prerequisite: None**

NDE Course Code - 08020009 Physical Education I covers activities with the goal to improve fitness and knowledge of lifetime activities. Students will have access to the community center for units on racquetball, volleyball and swimming. Gym shoes, shorts and appropriate shirts are required. Appropriate swimwear is required for the swimming unit at the center.

### **STRENGTH TRAINING AND CONDITIONING**

**Grades: 10-12**      **Length: Year or Semester**

**Prerequisite: PE 9/Health**

NDE Course Code - 08011114 An introductory course designed to help each student: Improve muscular strength; gain knowledge and understanding of weight training theory and practice; and develop a personalized weight training program.

### **ADVANCED STRENGTH TRAINING AND CONDITIONING**

**Grades: 11-12**      **Length: Year or Semester**

**Prerequisite: Strength Training and Conditioning**

NDE Course Code - 08011315 This course examines the methods and techniques associated with the design and implementation of strength and conditioning programs to enhance human performance in sport and fitness.

## LIFETIME SPORTS

**Grades:** 11-12 **Length:** Year

**Prerequisite:** PE 9/Health

NDE Course Code - 08040015 Lifetime Sports deals with the various lifetime recreational sports available in later life. Gym shoes and appropriate gym clothes are required.

## SPORTS OFFICIATING

**Grades:** 10 -12 **Length:** Semester

**Prerequisite:** PE 9/Health

NDE Course Code - 08012414 This course is designed to offer students the coursework and experience to officiate in a variety of major sports including, but not limited to, basketball, football, volleyball, baseball/softball, and soccer.

## MUSIC

**Required:** 75 or 70 credits total of any Electives (see chart on page 2)

### INSTRUMENTAL MUSIC - BAND

**Grades:** 9-12 **Length:** Year

**Prerequisite:** Prior instrumental music experience preferred (permission of instructor if no prior experience).

NDE Course Code - 12050013 Instrumental Music students will be exposed to a wide variety of music styles, including marching, pep and concert band literature as well as the opportunity to accompany a choir. Participation in concerts, contests, clinics, and other performances are required as are occasional before school practices and summer band events. Students must purchase band shoes and gloves and any supplies, repairs and upkeep to their instrument. A \$15 fee will be assessed for the cleaning of uniforms. Students seeking advancement in their individual instrument may elect to audition for honor bands and participate in solo/small ensemble performance at District Music Contest. In order to participate in the music trip, students must remain in the same ensemble both semesters of the trip year.

### CHORUS

**Grades:** 9-12 **Length:** Year

**Prerequisite:** Prior vocal music experience is helpful, but all students are accepted.

NDE Course Code - 12040013 Chorus students will increase their knowledge of how to sing in groups and match pitches. Students will become familiar with music from all eras of history, and several different cultures. Performance at concerts, conference clinic, and the Boone Central Choral Clinic are included in the course requirements. Members may try out for special groups, and individual lessons are available from the instructor. A \$10 fee will be assessed for the cleaning of the choir robe. If the member belongs to a swing choir an extra fee of \$35 will be assessed for costume rental. In order to participate in the music trip, students must remain in the same ensemble both semesters of the trip year.

## ART

**Required:** 75 or 70 credits total of any Electives (see chart on page 2)

### ART I

**Grades:** 9-12 **Length:** Year

**Class size limited to 20**

**Prerequisite:** None

NDE Course Code - 02010017 Art I is a year long class for beginning students who are interested in 2-dimensional art. This class is to introduce students to various techniques in 2-dimensional, and may briefly dive into 3-dimensional art. Students will have the opportunity to work with basic materials and methods in creating artwork and understanding art and its influence in everyday life. Art History may also be included in the curriculum. Students are encouraged to take part in the Mid-State Conference show, which is held in April. Students may be required to purchase some materials.

### ART II

**Grades:** 10-12 **Length:** Year

**Class size limited to 20**

**Prerequisite:** Art I

NDE Course Code - 02020015 Art II is a year long class for more advanced study in Art. Students will explore 2-dimensional and 3-dimensional artwork throughout the year. Students will work with a variety of media and create both teacher-choice and student-choice projects. Students are encouraged to take part in the Mid-State Conference show, which is held in April. Students may be required to purchase some materials.

### CERAMICS

**Grades:** 9-12 **Length:** Semester

**Class size limited to 14**

**Prerequisite:** None

NDE Course Code - 02020013 Ceramics is a semester course in which students will learn basic knowledge about clay. They will use hand built construction techniques to create functional as well as aesthetic and nonfunctional pottery and sculptures. The student will also learn to throw basic pottery forms such as bowls, and cylinder forms with lids. Glazing, slip casting, and kiln loading will also be included. Student work will be exhibited at the Mid-State Conference Show in April. Students may be required to purchase some materials.

## ADVANCED CERAMICS

**Grades:** 9-12 **Length:** Semester

**Class size limited to 14** **Prerequisite:** Ceramics

NDE Course Code - 02020014 Advanced Ceramics is a semester course for advanced techniques in Ceramics. Students will expand their skills and knowledge of clay, the various methods of construction, and expression in clay. Students will increase their knowledge of hand-building and throwing on the wheel. Student work will be exhibited at the Mid-State Conference Show in April. Students may be required to purchase some materials.

## CAREER AND TECHNICAL EDUCATION

Required: 75 or 70 credits total of any Electives (see chart on page 2)

### Boone Central Career Academies

Students who participate in Boone Central's Career Academy have the opportunity to earn college credit and learn more about a high-demand career area. Students will learn skills that will help them be successful in pursuing the career field of their choice. Additionally, they will have the opportunity to work closely with local businesses gaining valuable experiences, and in many cases, hands-on experiences.

## INTERNSHIP ●

**Grade:** 12 **Length:** Year

**Prerequisite:** Successful completion of Career Academy Pathway courses

NDE Course Code - 32070012 The Internship course is tailored to the unique needs and interests of the student upon completion of, or current enrollment of the advanced career academy course. Students must find an employer that is willing to hire them for the year. The student may work up to 3 periods each day and will be permitted to work during school hours. Internships may be paid or unpaid and will include a classroom component with regular contact between the student and the internship coordinator. The student will be asked to showcase their on-the-job learning at an event in the spring.

## CAPSTONE COURSE ●

**Grade:** 12 **Length:** Semester

**Prerequisite:** Successful completion of Career Academy Pathway courses

NDE Course Code - 32993112 The Capstone experience for Career Academy students will allow students to further develop their leadership skills while creating a project that exhibits a deep level of understanding in their selected career academy field. This capstone will be the synthesis of the important content, skills, or knowledge that are of importance in the student's area of focus. The student will be asked to work with mentors in the field, implement a project, and showcase their learning at an event in the spring.

## ACADEMY OF AGRICULTURE

Required: 75 or 70 credits total of any Electives (see chart on page 2)

	Intro Course	Intermediate Course	Advanced Course	Capstone
<b>Animal Systems</b>	Intro to Agriculture, Food and Natural Resources	Animal Biology AND Large Animal Management	Biotechnology	Capstone Course OR Internship OR Certification
<b>Agronomy</b>	Intro to Agriculture, Food and Natural Resources	Plant Science AND Agronomic Science	Biotechnology	Capstone Course OR Internship OR Certification

## INTRODUCTION TO AGRICULTURE, FOOD & NATURAL RESOURCES ●

**Grades:** 9-10 **Length:** Year

**Prerequisite:** None

NDE Course Code - 01100017 One in every five jobs is related to agriculture. As freshmen entering the program students will have an opportunity to "sample" agriculture across the board, learn about the National FFA Organization, and develop plans for a Supervised Agricultural Experience. Topics covered include FFA and Agricultural Education, the livestock industry, parliamentary procedure, agricultural economics, agribusiness, soil science, plant sciences, farm and ranch safety, agricultural mechanics and safety, and welding.

## ANIMAL SCIENCE & LARGE ANIMAL MANAGEMENT \* 💡 ● (can count towards science requirements)

**Grades:** 10-12 **Length:** Year

**Prerequisite:** Intro to Agriculture, Food and Natural Resources

NDE Course Code - 01100414 & 01100515 A course focusing on the basic scientific principles and processes that are involved in animal physiology, breeding, nutrition, and care in preparation for an animal systems career. Topics include animal diseases, introduction to animal science, animal nutrition, animal science issues, career opportunities and animal evaluation. Classroom and laboratory activities are supplemented through supervised agricultural experiences and leadership programs and activities in FFA.

Course Key: \*Required 💡 - dual credit course ● - course in a Pathway in a Career Academy ◆ - course approved by NCAA ♦ - weighted course 12

**PLANT SCIENCE\*** ● (can count towards science requirements)

**Grades: 10-12 Length: Semester**

**Prerequisite: Intro to Agriculture, Food and Natural Resources**

NDE Course Code - 01100714 Coursework focuses on knowledge, information and skills related to the science of plant production and agronomy. Topics will include careers, plant growth and reproduction, biotechnology and research, fertilizers, plant and tree identification, controlling weeds and pests, soils and agricultural chemicals. Classroom and laboratory activities are supplemented through supervised agricultural experiences and the FFA.

**CROP MANAGEMENT/AGRONOMY\*** ● (can count towards science requirements)

**Grades: 10-12 Length: Semester**

**Prerequisite: Plant Science**

NDE Course Code - 01100814 This course provides the study of plant physiology and morphology and its relationship to growth, development and reproduction of crop and forage plants in the global environment. Topics include: seed identification, testing and grain grading. Identification of agronomic crops and major weeds in crop production and harvesting and handling will be emphasized. Classroom and laboratory activities are supported through supervised agricultural experiences and leadership programs and experiences.

**BIOTECHNOLOGY** ●

**Grades: 11-12 Length: Year**

**Prerequisite: Intro to Ag and Animal Biology/Large Animal Management or Plant Science/Agronomic Science**

NDE Course Code - 01200415 A course focusing on students examining extensively the relationship between biotechnology and modern plant production systems. Students identify purposes and methods of genetic modification of plants and the impact of modern plant production on a global scale. Classroom and laboratory activities are supplemented through supervised agricultural experiences and leadership programs and activities.

**AGRICULTURAL SALES (Offered 2023-2024, 2025-2026, 2027- 2028, 2029-2030)**

**Grades: 10-11 Length: Semester**

**Prerequisite: Intro to Agriculture, Food and Natural Resources**

NDE Course Code - 011011 This course covers the skills necessary to be able to sell and market agricultural products and the development of effective communication skills. The course includes applying sales and marketing principles through the study of business planning and creating and analyzing financial information. Classroom and laboratory activities are supplemented through supervised agricultural experiences and leadership programs and activities.

**AGRIBUSINESS (Offered 2024-2025, 2026-2027, 2028-2029, 2030-2031)**

**Grades: 11-12 Length: Semester**

**Prerequisite: Intro to Agriculture, Food and Natural Resources; Minimum of 2 years of math - Algebra and Geometry**

NDE Course Code - 01100914 The majority of agricultural careers are no longer spent in the tractor seat or the saddle seat, but behind a desk. Students will explore the importance of agriculture and agribusiness management, basic economic concepts, decision-making principles, agricultural policy, financial accounting, and budgeting. The balance of instruction emphasizes risk management, with units on production, price, financial, business, marketing, and personal risk. Sales presentations and various projects will emphasize communication skills. The course is complemented by involvement in the FFA and a working SAE.

**FLORICULTURE (Offered 2023-2024, 2025-2026, 2027- 2028, 2029-2030)**

**Grades: 10-12 Length: Semester**

**Prerequisite: Intro to Agriculture, Food and Natural Resources**

NDE Course Code - 01200215 This class introduces the procedures, design principles, and production techniques used in the retail and wholesale floral business. Topics covered will include history of the floral industry, unique levels of the floral industry, the floral marketing industry, floral botany, floral tools, principles of floral design and identification and classification of floral plants. The course will also look at the landscape industry and conducting landscape designs. Students will have the opportunity to design live arrangements. Coursework is complemented by involvement in the FFA and a working SAE.

**VETERINARY SCIENCE (Offered 2024-2025, 2026-2027, 2028-2029, 2030-2031)**

**Grades: 10-12 Length: Semester**

**Prerequisite: Intro to Agriculture, Food and Natural Resources**

NDE Course Code - 01101515 Students will take an in-depth look at the anatomy and body systems of livestock. Focus will be placed on the skeletal and muscular, digestive and reproductive. Time permitting it will also include animal testing and diagnostic evaluation. Large emphasis will be placed on the applicable veterinary medicine terminology. Learning is supplemented by involvement in the FFA and a working SAE.

# ACADEMY OF BUSINESS AND TECHNOLOGY

Required: 75 or 70 credits total of any Electives, 5 or 10 credits of Technology, 5 credits of Personal Finance(see chart on page 2)

	Intro Course	Intermediate Course	Advanced Course	Capstone
<b>Business Administration</b>	Introduction to Business, Marketing and Management	Accounting (year)	Entrepreneurship (year)	Capstone Course OR Internship
<b>Web &amp; Digital Communication</b>	Digital Media I	Digital Design II OR Web Design	Media Production	Capstone Course OR Internship

## INFORMATION TECHNOLOGY FUNDAMENTALS (required for all graduates in graduating class of 2027 and beyond)

**Grades: 9-12 Length: Semester**

**Prerequisite: None**

NDE Course Code 287050413 Students are introduced to the proper use of information technologies (IT). In addition, they will be introduced to hardware and software selection and use, technology resource support, and ethical issues. Students will investigate information technology careers and certifications in networking, programming and IT support services. Units would include, but not be limited to, exploring concepts in networking, programming, and support services, computer hardware components and peripherals, system and application software, and impact of technology on society.

## INTRODUCTION TO BUSINESS, MARKETING & MANAGEMENT ●

**Grades: 9-12 Length: Semester**

**Prerequisite: None**

NDE Course Code - 03230013 This course is designed to introduce students to the Business, Marketing, and Management Career Field, which focuses on organization, economics, management, marketing, financial management, and operations. Career opportunities and technology will also be used and discussed.

## DIGITAL MEDIA I ●

**Grade: 9-12 Length: Semester**

**Prerequisite: None**

NDE Course Code - 27060214 Students will learn and apply copyright laws while using industry standard digital tools to create, design, and produce digital media including sound, video, motion graphics, and print design following rules of composition and basic design principles.

## DIGITAL DESIGN II ●

**Grades: 9-12 Length: Semester**

**Prerequisite: Digital Media I**

NDE Course Code - 27061113 Students will focus on developing skills to plan, design, and create digital design projects using elements of composition, digital photography, and digital print design.

## MEDIA PRODUCTION ●

**Grades: 10-12 Length: Year**

**Prerequisite: Digital Media I and Digital Design II**

NDE Course Code - 27061014 Students will expand their skills in the creation of media productions such as a news broadcast, video story package, live streaming, radio show, podcast, PSAs, digital signage, short films, documentaries, and other media projects. These skills will prepare students for entry-level positions in the media production field.

## ACCOUNTING 1 & 2 ●

**Grades: 10-12 Length: Year**

**Prerequisite: Intro to Business, Marketing & Management**

NDE Course Code - 0305114 & 03050214 The Accounting 1 course covers a service business organized as a sole proprietorship which will include accounting principles involved in the preparation and maintenance of financial records concerned with business management and operations. It is a comprehensive introduction to basic accounting including recording, summarizing, and reporting and accounting systems and controls. Students are exposed to careers in the accounting field and are given the opportunity to perform accounting applications using technology. The accounting 2 course will develop accounting skills that build upon those acquired in Accounting I. Students will continue to apply concepts of double-entry accounting systems related to a merchandising business organized as a corporation. Additional accounting skills will be developed, including preparing and journalizing payroll records, calculating, recording, and adjusting entries, and interpreting financial information. Students are given the opportunity to explore career-related skills and perform accounting applications using technology. Accounting 1 is a prerequisite to this course.

**ACCOUNTING 3 & 4 (Independent)****Grades: 11-12 Length: Year****Prerequisite: Accounting 1 & 2 and teacher approval**

NDE Course Code -03050315 & 03050415 The Accounting 3 course includes accounting for a merchandising business, adjustments in inventory control systems, and other general accounting adjustments. Accounting 1 and Accounting 2 are prerequisites to this course. Accounting 4 evaluates financial planning and decision-making for corporate and managerial accounting and other types of business. Accounting 1, Accounting 2, and Accounting 3 are prerequisites to this course.

**ENTREPRENEURSHIP ●****Grades: 10-12 Length: Year****Prerequisite: Introduction to Business, Marketing & Management**

NDE Course Code - 03237014 Entrepreneurship is a course designed for students with a career interest in entrepreneurship. Emphasis is placed on the business skills and commitment necessary to successfully operate an entrepreneurial venture and review the challenges and rewards of entrepreneurship. The role of entrepreneurial businesses in the United States and the impact on the national and global economy will be explored. Instructional strategies may include the development of a business plan and the operation of the Gateway Theatre. Scholarships are awarded annually to seniors who have participated in this course and volunteered at the Gateway Theatre.

**PERSONAL FINANCE (required for all graduates in graduating class of 2024 and beyond)****Grades: 10-12 Length: Year****Prerequisite: None**

NDE Course Code - 03300014 A one-semester course that focuses on how to manage your personal finances. Students will learn areas that enhance financial security and enable them to make wise decisions affecting their financial future. Units will include money management, earning power, investments, financial services, credit management, and risk management. Students will gain knowledge of managing their personal finances, preparing them for financial responsibility beyond high school.

**ACADEMY OF HEALTH AND HUMAN SERVICES***Required: 75 or 70 credits total of any Electives (see chart on page 2)*

	<b>Intro Course</b>	<b>Intermediate Course</b>	<b>Advanced Course</b>	<b>Capstone</b>
<b>Health Sciences</b>	Health Science I	Health Science II	Health Science III	Capstone Course OR Internship OR Industry Certification
<b>Education &amp; Training</b>	Introduction to Education & Training AND Human Development	Best Practices in Education & Training	Field Experience in Education & Training	Capstone Course OR Internship

**HEALTH SCIENCE I ●****Grades: 9-12 Length: Semester****Prerequisite: none**

NDE Course Code - 07730014 Introduction to Health Science is designed to give an overview of the therapeutic, diagnostic, support services, biotechnology and research and health informatics pathways. The course focuses on health careers, exploration, leadership development, medical terminology, ethical and legal responsibilities, the history of healthcare and the economics of health care.

## HEALTH SCIENCE II ●

**Grades:** 9-12    **Length:** Semester

**Prerequisite:** Introduction to Health Science

NDE Course Code - 07730114 This course is designed to experience health careers at a personal level. Instruction includes anatomy and physiology, medical terminology, medical ethics and law, diseases and disorders, positive and negative health and wellness behaviors, and first aid. Skills learned will be applicable to students continuing in the medical science field.

## HEALTH SCIENCE III ●

**Grades:** 10-12    **Length:** Year

**Prerequisite:** Health Sciences II

NDE Course Code - 07730215 This course is a continuation of Health Sciences I and Health Sciences II and is the third course in a three course sequence and has been designed for the student to explore a variety of health science careers or an in-depth study of a specific health science career. Course work would include work-based learning experiences, advanced career planning, and mentorship opportunities in the student's career interest. Using the Buck Institute for Education, Project Based Learning model, students will individually or as a group, engage in a school or community wide or a CTSO project based learning experience.

## INTRODUCTION TO EDUCATION & TRAINING ●

**Grades:** 9-12    **Length:** Semester

**Prerequisite:** None

NDE Course Code - 35000113 This course is designed to introduce students to career opportunities and related skills in the Education and Training career field, including teaching and professional education training. Students will explore topics related to the foundation and history of education, the philosophy of education, roles of educators, instructional and assessment methods, diversity of cultures and communities related to educational settings, learner development, and professional development. Human Development is encouraged but not required to take this course.

## BEST PRACTICES IN EDUCATION & TRAINING ●

**Grades:** 9-12    **Length:** Semester

**Prerequisite:** Introduction to Education & Training

NDE Course Code - 35000213 Students will further engage in topics related to instructional and assessment methods, including differentiation and instruction. Students will also develop active listening skills necessary for educators, and demonstrate positive feedback techniques. Students will gain skills related to planning for instruction, which will be utilized in the field techniques (the next course in this pathway).

## FIELD EXPERIENCE IN EDUCATION & TRAINING ●

**Grades:** 10-12    **Length:** Year

**Prerequisite:** Best Practices in Education & Training

NDE Course Code - 35001014 Through this capstone experience, students will apply previously developed knowledge and skills into a structured workplace experience. Students will observe several different learning environments. Opportunities may include experience teaching small groups of students in a controlled setting by designing learning experiences and facilitating presentations. Students will focus on improving their instructional strategies through coaching from their teacher and supervising professionals.

## HUMAN DEVELOPMENT ●

**Grades:** 10-12    **Length:** Semester

**Prerequisite:** None

NDE Course Code - 09012314 This class is the study of human development (physical, mental, emotional and social) from infancy through adolescence or the entire life span. Includes how to develop positive interactions with and guiding the development of each age. This class focuses on prenatal development and the decision making skills associated with parenting.

## INTRODUCTION TO DESIGN

**Grades:** 9-12    **Length:** Semester

**Prerequisite:** None

NDE Course Code- 09012613 Students explore the definition and application of elements and principles of design in both living spaces and clothing and textiles. In this course, students will also evaluate the use of elements and principles and suggest improvements. Students are also exposed to career opportunities and the skills necessary for these career fields.



## TEXTILE CONSTRUCTION

**Grades 9-12 Length: Semester**

**Prerequisite: Intro to Design**

NDE Course Code- 09010313 This course provides instruction in social, psychological and historical aspects of clothing and textiles. Textile and apparel design, selection, construction, maintenance and alteration of textile products will be analyzed and taught. This course integrates knowledge, skills, and practices required for careers in textiles and scientific research.

## INTERPERSONAL RELATIONSHIPS

**Grades: 10-12 Length: Semester**

**Prerequisite: None**

NDE Course Code - 0901161514 This course includes the study of interpersonal relationships and the effect of these relationships on the well being of individuals, families, work and society. This course includes concepts such as effective communication, establishing and maintaining relationships, diverse family systems, characteristics of personal development and the impact of relationships on personal and career success.

## FOODS & NUTRITION

**Grades: 9-12 Length: Semester**

**Prerequisite: none**

NDE Course Code - 09010713 This course is designed to provide students with the base foundation knowledge of food selection and preparation needed to successfully fuel the human body through consumption of food and resulting food energy. With a beginning foundation of nutrition, students will learn basic preparation skills and the short-term and long-term wellness consequences as a result of nutritional intake.

## CULINARY SKILLS I

**Grades: 10-12 Length: Semester**

**Prerequisite: Foods & Nutrition**

NDE Course Code - 37002114 This course is designed to provide students with a curriculum focused on culinary skills, food science, and food safety and sanitation. Students will understand important chemical and physical changes that occur during food preparation. As a result, students will be able to produce and serve flavorful, aesthetically pleasing, nutritious food.

## CULINARY SKILLS II

**Grades 10-12 Length: Semester**

**Prerequisite: Culinary Skills I**

NDE Course Code- 37002214 This course is designed to provide students with an advanced curriculum which is focused on the foodservice industry and provides training in workplace and culinary skills, interpersonal and communication skills, as well as an exposure to the areas of restaurant management and career exploration. ServSafe Certification may be available at this level through the National Restaurant Association Educational Foundation.

## ACADEMY OF SKILLED AND TECHNICAL SCIENCES

*Required: 75 or 70 credits total of any Electives (see chart on page 2)*

	Intro Course	Intermediate Course	Advanced Course	Capstone
<b>Construction</b>	Intro to Skilled & Technical Sciences AND Computer Aided Design (CAD)	Construction Trades I	Construction Trades II	Capstone Course OR Internship
<b>Welding</b>	Intro to Agriculture, Food and Natural Resources OR Intro to Skilled & Technical Sciences	Welding I	Welding II	Internship OR Welding III

## INTRO TO SKILLED & TECHNICAL SCIENCES (STS) ●

**Grades: 9-12 Length: Semester**

**Prerequisite: None**

NDE Course Code - 10010013 This introductory course provides the skills and technical knowledge for a beginning student in areas of industry, safety, material, equipment, and process understanding. This entry level course helps students gain a foundation in all areas of Skilled and Technical Sciences including Architecture and Construction; Energy; Manufacturing.

## CONSTRUCTION TRADES I ●

**Grades: 9 -12 Length: Semester**

**Prerequisite: Intro to STS or currently enrolled in Intro to STS**

NDE Course Code - 10011013 This intermediate course provides an overview of construction materials, tools, and processes needed for a basic construction project. This course will lay the groundwork for higher-level construction projects and for careers in the construction industry.

## **CONSTRUCTION TRADES II** ●

**Grades: 10-12**    **Length: Year**

**Prerequisite: Intro to STS, Construction Trades I**

NDE Course Code - 10012014 This course is designed for the student pursuing a career as a construction professional and combines technical skills with planning and management to prepare the student for all stages of a project.

## **COMPUTER AIDED DRAFTING** ●

**Grades: 10-12**    **Length: Semester**

**Prerequisite: None**

NDE Course Code - 10013014 This introductory course builds the skills necessary to understand ideas being communicated through drawings and documents, and in turn, convey ideas, duties, and tasks to others in a form representing the industry. Students will use and follow industry-specific verbal and visual skills to accomplish workplace/ jobsite communications. Students will review traditional project phases and various roles within them to plan for and implement phases within a project. Students will develop working drawings that will be used in design and manufacturing. Computer-aided drafting/design (CADD) may be used.

## **MANUFACTURING**

**Grades: 10-12**    **Length: Semester**

**Prerequisite: Intro to STS or currently enrolled in Intro to STS**

NDE Course Code - 10192114 In this intermediate class, students will be introduced to the basic manufacturing process in wood. An emphasis will be placed on safe tool and machine usage as well as reading plans and using materials to take a project from conception to reality

## **ADVANCED MANUFACTURING & FABRICATION**

**Grades: 10-12**    **Length: Semester**

**Prerequisite: Manufacturing**

NDE Course Code - 10192214 Students will use advanced tools and equipment (CNC) to produce parts and projects to industry standards and specifications.

## **WELDING I** ●

**Grades: 9-12**    **Length: Year**

**Prerequisites: None**

NDE Course Code - 10193013 This course is a continuation of the welding process. Focusing on understanding weld Symbols the Shielded Metal Arc Welding Process and Oxy-Acetylene Welding Process

## **WELDING II** ●

**Grades: 10-12**    **Length: Year**

**Prerequisites: Welding I**

NDE Course Code - 10194014 This course is a continuation of learning the knowledge and skills of the welding industry. This class will also serve as the capstone course for welding. Students will gain knowledge on welding related jobs and industry. Focusing on Gas Tungsten Arc Welding and Gas Metal Arc Welding Processes. Students will also become familiar with CNC Plasma cutting.

## **WELDING III** ●

**Grades: 11-12**    **Length: Year**

**Prerequisites: Welding I & Welding II**

NDE Course Code - 10194115 Students will produce projects and welds to specifications and work towards welding certifications.

## **ELECTRICITY AND ELECTRONICS (Offered 2023-2024, 2025-2026, 2027- 2028, 2029-2030)**

**Grades: 10-12**    **Length: Semester**

**Prerequisite: None**

NDE Course Code - 10040114 This course is designed to introduce the theory, terminology, equipment, and practical hands on experience in the skills needed for careers in the electronics field as well as the residential electricity field. Skills covered involve the repair, maintenance, and building of electronic equipment as well as electrical circuits to industry standards.

## **ROBOTICS (Offered 2024-2025, 2026-2027, 2028-2029, 2030-2031)**

**Grades: 9-12**    **Length: Semester**

**Prerequisite: Intro to STS or currently enrolled in Intro to STS**

NDE Course Code - 10319413 This course is designed to explore the current and future use, design, construction, operation, and use of robots and automation technology. Students will apply mathematics formulas and calculations to design and construct a robot.

## OTHER COURSES

Required: 75 or 70 credits total of any Electives (see chart on page 2)

---

### INDEPENDENT COLLEGE CLASSES

**Grade:** 11- 12      **Length:** Year or Semester

**Prerequisite:** Counselor and/or principal approval

NDE Course Code - 00000016 Students would be allowed to take online or correspondence classes for **college credit only**. Students must have the ability to work independently and take the initiative to complete coursework on their own. (See the school counselor for a complete listing of classes.)

### STUDENT AIDE

**Grades:** 11-12      **Length:** Semester

**Prerequisite:** None

NDE Course Code 23080015- Students enrolling in a student aide course are expected to report to their cooperating staff member promptly each day and follow established tasks and routines. Students are expected to perform their assistant duties with a positive attitude and support the staff member in all areas requested of them. Students and cooperating staff members will fill out performance based surveys 2 -3 times during each semester placement. Students are allowed to take a student aide class or a study hall during the same semester, but not both. Student Aide courses are graded as pass or no pass, each semester is worth 5 elective credits. No grade will be calculated into the student's GPA.

### STUDY HALL

**Grades:** 9-12      **Length:** Year or Semester

**Prerequisite:** None

NDE Course Code - 00000013 Students enrolling in a study hall are expected to work on homework assignments, study for tests/quizzes and/or work with a teacher. Students are expected to come to the study hall prepared to work. Students on the downlist are not allowed to leave the study hall room without a pass from the teacher of the class they are failing or about to fail. Students can take only one study hall period per semester.