



Northampton County Schools

# COURSE CATALOG

2021-2022 School Year



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# ENGLISH

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## English I

Course #: 10212X0C

Credits: 1

Pre-Requisite(s): None

English I is a college, career, and life course required of all grade 9 students at Jones Northampton County High School. The course content focuses on teaching skills and strategies for critical, independent reading and writing of complex expository, narrative, and persuasive texts. Instruction is based on the Common Core Standards of North Carolina and seeks to support students becoming independent, strategic, and critical readers, writers, listeners, and speakers who communicate effectively in various forms for genuine purposes, which includes a variety of literary genres. State administered NC Final Exams are given at the end of the semester and count as the final exam for this course. Honors English 9 is designed to be more reading and writing intensive than regular courses.

## Honors English I (Weighted)

Course #: 10215X0

Credits: 1

Pre-Requisite(s): None

Honors English 9 is designed to be more reading and writing intensive than the regular English I courses. The course content focuses on teaching skills and strategies for critical, independent reading and writing of complex expository, narrative, and persuasive texts. Instruction is based on the Common Core Standards of North Carolina and seeks to support students becoming independent, strategic, and critical readers, writers, listeners, and speakers who communicate effectively in various forms for genuine purposes, which includes a variety of literary genres. State administered NC Final Exams are given at the end of the semester and count as the final exam for this course.

## Foundations of English II

Course #: 10252X0F2

Credits: 1

Pre-Requisite(s): English I

Foundations of English II students will engage in a concentrated study of reading and writing non-fiction texts of all types. Non-fiction texts from all academic content area classes and student research will be accessed, explored, analyzed and evaluated as students sharpen the literary skills necessary to be a successful reader and writer in school, college, and the workplace.

## English II

Course #: 10222X0C

Credits: 1

Pre-Requisite(s): English I

English II is a college, career, and life course required of all grade 10 students at Northampton County High School. The course content focuses on teaching skills and strategies for critical, independent reading and writing of complex expository, narrative, and persuasive texts. Instruction is based on the Common Core Standards of North Carolina and seeks to support students becoming independent, strategic, and critical readers, writers, listeners, and speakers who communicate effectively in various forms for genuine purposes, which includes a variety of literary genres. State administered End of Course Exams are given at the end of the semester and count as the final exam for this course. English II seeks to continue to hone

skills learned in English 1 with a concentration in world literatures and cultures. Honors English II is designed to be more reading and writing intensive than regular courses.

### **Honors English II (Weighted)**

Course #: 10225X0C

Credits: 1

Pre-Requisite(s): English I

Honors English 10 is designed to be more reading and writing intensive than regular courses. The course content focuses on teaching skills and strategies for critical, independent reading and writing of complex expository, narrative, and persuasive texts. Instruction is based on the Common Core Standards of North Carolina and seeks to support students becoming independent, strategic, and critical readers, writers, listeners, and speakers who communicate effectively in various forms for genuine purposes, which includes a variety of literary genres. State administered End of Course Exams are given at the end of the semester and count as the final exam for this course. English II seeks to continue to hone skills learned in English 1 with a concentration in world literatures and cultures.

### **English III**

Course #: 10232X0C

Credits: 1

Pre-Requisite(s): English II

English III is a college, career, and life course required of all grade 11 students at Northampton County High School. The course content focuses on teaching skills and strategies for critical, independent reading and writing of complex expository, narrative, and persuasive texts. Instruction is based on the Common Core Standards of North Carolina and seeks to support students becoming independent, strategic, and critical readers, writers, listeners, and speakers who communicate effectively in various forms for genuine purposes, which includes a variety of literary genres. State administered NC Final Exams are given at the end of the semester and count as the final exam for this course. English III seeks to continue to hone skills learned in English II with a concentration in historical and modern American literatures. Honors English III is designed to be more reading and writing intensive than regular courses.

### **Honors English III (Weighted)**

Course #: 10235X0C

Credits: 1

Pre-Requisite(s): English II

Honors English III is designed to be more reading and writing intensive than regular courses. The course content focuses on teaching skills and strategies for critical, independent reading and writing of complex expository, narrative, and persuasive texts. Instruction is based on the Common Core Standards of North Carolina and seeks to support students becoming independent, strategic, and critical readers, writers, listeners, and speakers who communicate effectively in various forms for genuine purposes, which includes a variety of literary genres. State administered NC Final Exams are given at the end of the semester and count as the final exam for this course. English III seeks to continue to hone skills learned in English II with a concentration in historical and modern American literatures.

## **English IV**

Course #: 10242X0C

Credits: 1

Pre-Requisite(s): English III

The English 12 course emphasizes students' awareness of the history and structural changes in the English language. Additional emphasis is placed on the historical influence of literature through a chronological survey of British literature. Individual writers' styles and purposes are stressed as bases for comparison and contrast. With literature as a basis, the five communication skills are taught as integral parts of the curriculum rather than as isolated units. Argumentative and analytical writing is stressed.

## **Honors English IV (Weighted)**

Course #: 10245X0C

Credits: 1

Pre-Requisite(s): English III

Honors English IV, like Honors English III, emphasizes the literature of one particular country- Great Britain. It is organized in the text by historical periods beginning with the pre-history Celts and the Roman occupation for 50 years and ending with the modern literature from the present day.

The essential questions that drive the course are:

- What is the relationship between place and Literature?
- How does Literature shape and reflect society?
- What is the relationship of the writer to tradition?

# **MATHEMATICS**

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## **Foundations of NC Math I**

Course #: 20902X0

Credits: 1

Pre-Requisite(s): None

In this course, students will be provided learning experiences that lead to establishing solid skills in the study of Math 1. Skills such as: solving equations, factoring expressions, evaluating expressions, writing and graphing equations of lines will be taught. Students will broaden their use of the coordinate plane as they learn to graph lines with, as well as, without the graphing calculator. Topics in statistics will also be introduced.

## **NC Math I**

Course #: 21092X0

Credits: 1

Pre-Requisite(s): None

NC Math I continues the study of algebraic concepts. It includes operations with polynomials, creation and application of linear functions and relations, algebraic representations of geometric relationships, an introduction to nonlinear functions, and an introduction to statistics. Students will be expected to describe and translate among graphic, algebraic, numeric, tabular, and verbal representations of relations and use those representations to solve problems. Appropriate technology, from manipulative to calculators and application software, should be used regularly for instruction and assessment.

### **Honors NC Math I (Weighted)**

Course #: 21095X0

Credits: 1

Pre-Requisite(s): None

The focus of the foundational high school mathematics course is to increase student understanding of functions as a unifying concept in advanced mathematics. The goal is to formalize and extend prior understanding by deepening and extending student understanding of linear functions, in part by contrasting those functions with exponential and quadratic phenomena, and in part by applying linear models to data that exhibit a linear trend. In addition to studying bivariate data, students also summarize, represent, and interpret data from single measurement variables. The geometry standards in this course formalize and extend student experiences to explore more complex geometric situations and deepen their explanations of relationships, moving towards formal mathematical arguments. The Standards for Mathematical Practice apply throughout this course. Together with the content standards, these practices require that students experience mathematics as a coherent, useful, and logical subject that builds on their ability to make sense of problem situations. Students are required to take the NC End of Course Exam.

### **Foundations of NC Math II**

Course #: 20912X0N

Credits: 1

Pre-Requisite(s): NC Math I

Foundations of Math II provides learners with an opportunity to review and study foundational topics for higher-level mathematics. The topics covered will be based on student needs and will be aligned with Math II. Students will solve relevant and authentic problems using manipulatives and appropriate technology.

### **NC Math II**

Course #: 22092X0

Credits: 1

Pre-Requisite(s): NC Math I

NC Math II continues students' study of advanced algebraic concepts including functions, polynomials, and rational expressions, systems of functions and inequalities, and matrices. Students will be expected to describe and translate among graphic, algebraic, numeric, tabular, and verbal representations of relations and use those representations to solve problems. Emphasis will be placed on practical applications and modeling. Appropriate technology, from manipulative to application software, should be used regularly for instruction and assessment. Calculators will be used daily to enhance topics.

### **Honors NC Math II (Weighted)**

Course #: 22095X0

Credits: 1

Pre-Requisite(s): NC Math I

Honors NC Math II includes all the topics covered in the corresponding Math II class. However, the material will be covered in greater complexity, novelty, acceleration, or pacing, and reflect a defensible differentiated curriculum. This course extends beyond the traditional Math II curriculum in both breadth and depth of study. It also provides problem-seeking and problem-solving opportunities for students. Calculators will be used daily to enhance instruction.

**NC Math III**

Course #: 23092X0

Credits: 1

Pre-Requisite(s): NC Math II

NC Math III builds the students' understanding of geometric concepts. Students will move from an inductive approach to deductive methods of proof in their study of geometric figures. Reasoning skills will be emphasized and students will broaden their use of the coordinate plane. Appropriate technology, from manipulative to calculators and application software, should be used regularly for instruction and assessment.

**Honors NC Math III (Weighted)**

Course #: 23095X0

Credits: 1

Pre-Requisite(s): NC Math II

Honors NC Math III includes the topics covered in the corresponding Math III class. However, the material will be covered in greater complexity, novelty, acceleration or pacing, and reflect a defensible differentiated curriculum. This course extends beyond the traditional geometry curriculum in both breadth and depth of study. It also provides problem-seeking and problem-solving opportunities for students.

**NC Math IV**

Course #: 24092X0

Credits: 1

Pre-Requisite(s): NC Math III

NC Math IV focuses on functions and statistical thinking, continuing the study of algebra, functions, trigonometry and statistical concepts previously experienced in NC Math I-III. The course is designed to be a capstone to introductory statistical concepts. Additionally, the course intentionally integrates concepts from algebra and functions to demonstrate the close relationship between algebraic reasoning as applied to the characteristics and behaviors of more complex functions. In many cases, undergraduate students majoring in non-STEM fields will take an entry-level Algebra or Introductory Statistics course. Students will be prepared for college level algebra and statistics or as a bridge to prepare students for Precalculus or other advanced math courses.

**Honors NC Math IV (Weighted)**

Course #: 24095X0

Credits: 1

Pre-Requisite(s): NC Math III

NC Math IV Honors addresses the topics of NC Math IV at a more comprehensive and rigorous level. Additional topics and requirements with real-world applications are included.

## SCIENCE

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### **Earth/Environmental Science**

Course #: 35012X0C

Credits: 1

Pre-Requisite(s): None

Earth Science is the study of the earth's history, structure, atmosphere, weather, and oceans. It is also the study of the position, composition, and other characteristics of the planets, stars, and other bodies in space. This course is a graduation requirement.

### **Honors Earth/Environmental Science (Weighted)**

Course #: 35015X0

Credits: 1

Pre-Requisite(s): None

In Honors Earth/Environmental Science students are expected to work independently on a variety of assignments and accept greater responsibility for their learning. In order to develop a greater understanding of the processes that shape our everyday lives, the curriculum will integrate inquiry investigations and a variety of technologies with the study of earth as a system. The impacts of human activities on earth systems will also be a focus. The results of student investigations should be communicated through presentations and formal laboratory reports.

### **Foundations of Science**

Course #: 30202X0S

Credits: 1

Pre-Requisite(s): Earth/Environmental Science

Foundations of Science provides learners with an opportunity to review and study foundational topics for higher-level science. The topics covered will be based on student needs and will be aligned with Biology.

### **Biology**

Course #: 33202X0C

Credits: 1

Pre-Requisite(s): Earth/Environmental Science

Biology is the study of living things and their relationship to the environment with emphasis placed on the six kingdom classification systems. This course is a requirement for graduation.

### **Honors Biology (Weighted)**

Course #: 33205X0

Credits: 1

Pre-Requisite(s): English I, Earth/Environmental Science

Biology is the study of living things and their relationship to the environment with emphasis placed on the six kingdom classification systems. Concepts will be explored on an advanced level. Biology is a requirement for graduation.



## **Physical Science**

Course #: 34102X0

Credits: 1

Pre-Requisite(s): None

This course is a basic introduction to physics and chemistry. Concepts and terminology are basic and math is kept to a minimum. Practical application is emphasized. Topics of study include motion, energy, electricity, magnetism, heat, structure of matter, and chemical reactions.

## **Chemistry**

Course #: 34202X0C

Credits: 1

Pre-Requisite(s): Math I

Students study a variety of chemistry topics including chemical equations and reactions, stoichiometry, the periodic table, atomic theory, molecular chemistry, kinetic theory, gas laws, solutions, and acid-base behavior. Students will use their mathematics and problem solving skills to complete laboratory activities.

## **Honors Chemistry (Weighted)**

Course #: 34205X0C

Credits: 1

Pre-Requisite(s): Math I

Chemistry is the study of the structure and chemical interactions of matter. Laboratory experiments are an important element of this class. Extensive math skills will be used. Topics of study include atomic structure, chemical formulas and equations, solutions, chemical reactions, and properties of the elements.

## **SOCIAL STUDIES**

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### **World History**

Course #: 43032X0C

Credits: 1

Pre-Requisite(s): None

World History at the 9th grade level is a survey course that gives students the opportunity to explore recurring themes of human experiences common to civilizations around the globe from ancient to contemporary times. Students broaden their historical perspectives as they explore ways societies have dealt with political, economic, and social continuity and change, affected by issues such as war and peace, internal stability and strife, and the development of institutions.

### **Honors World History (Weighted)**

Course #: 43035X0C

Credits: 1

Pre-Requisite(s): None

World History at the 9th grade level is a survey course that gives students the opportunity to explore recurring themes of human experiences common to civilizations around the globe from ancient to contemporary times. Students broaden their historical perspectives as they explore ways societies have dealt with political, economic, and social continuity and change, affected by issues such as war and peace, internal stability and strife, and the development of institutions. In the Honors course writing and research

skills are emphasized and are organized around the student doing extended reading, writing and research assignments in addition to the regular course requirements.

### **Founding Principles USA & NC: Civic Literacy**

Course #: 43182X0

Credits: 1

Pre-Requisite(s): World History

Civic Literacy is the study and understanding of citizenship and government. Through the Inquiry-based C3 Framework, this one semester course provides students with a sound understanding of civic life, politics, and government, including a short history of government's foundation and development in the United States of America. Students learn how power and responsibility are shared and limited by the government, the impact American politics has on world affairs, law in the American constitutional system, and the rights that the American government guarantees its citizens. Students also examine how the world is organized politically and how to be an active participant in the American and global political systems. Students will study the foundations of American democracy and the origins of American government. The roles of political parties, campaigns & elections, public opinion, and the media will be analyzed to determine their effects on the individual and all who call the United States home.

### **Founding Principles USA & NC: Civic Literacy Honors**

Course #: 43185X0

Credits: 1

Pre-Requisite(s): World History

Civic Literacy is the study and understanding of citizenship and government. Through the Inquiry-based C3 Framework, this one semester course provides students with a sound understanding of civic life, politics, and government, including a short history of government's foundation and development in the United States of America. Students learn how power and responsibility are shared and limited by the government, the impact American politics has on world affairs, law in the American constitutional system, and the rights that the American government guarantees its citizens. Students also examine how the world is organized politically and how to be an active participant in the American and global political systems. Students will study the foundations of American democracy and the origins of American government. The roles of political parties, campaigns & elections, public opinion, and the media will be analyzed to determine their effects on the individual and all who call the United States home. In the Honors course writing and research skills are emphasized and are organized around the student doing extended reading, writing and research assignments in addition to the regular course requirements.

### **American History**

Course #: 43112X0

Credits: 1

Pre-Requisite(s): Civic Literacy

Providing a foundation to understand our nation's past and present, the American History course begins with the end of the French and Indian War in 1763 and continues through the most recent presidential election. This course will explore the overarching themes, trends, and concepts of our nation's history, including the development and evolution of the American system of government, the patterns and impact of migration and immigration, cultural development through the arts and technological innovations, relationships with foreign nations, and the role of both the individual and diverse groups in building the American story. Rooted in Inquiry-based skills, students will trace American development while learning to craft compelling questions, synthesize and evaluate evidence, develop claims, communicate ideas, and

take informed action. As well-rounded, productive citizens, the students will leave the American History course with both the knowledge and the skills to engage with the modern world by recognizing contemporary patterns and connections.

### **Honors American History (Weighted)**

Course #: 43115X0

Credits: 1

Pre-Requisite(s): Civic Literacy

Providing a foundation to understand our nation's past and present, the American History course begins with the end of the French and Indian War in 1763 and continues through the most recent presidential election. This course will explore the overarching themes, trends, and concepts of our nation's history, including the development and evolution of the American system of government, the patterns and impact of migration and immigration, cultural development through the arts and technological innovations, relationships with foreign nations, and the role of both the individual and diverse groups in building the American story. Rooted in Inquiry-based skills, students will trace American development while learning to craft compelling questions, synthesize and evaluate evidence, develop claims, communicate ideas, and take informed action. As well-rounded, productive citizens, the students will leave the American History course with both the knowledge and the skills to engage with the modern world by recognizing contemporary patterns and connections. In the Honors course writing and research skills are emphasized and are organized around the student doing extended reading, writing and research assignments in addition to the regular course requirements.

### **Economics and Personal Finance**

Course #: 43192X0

Credits: 1

Pre-Requisite(s): American History

Economics and Personal Finance provides students with the agency, tools, and knowledge necessary to live in and contribute to a financially sound society. The course was developed in accordance with Session Law 2019-82 to provide instruction on economic principles and provide personal financial literacy instruction. Ultimately, students taking this course will understand economic decisions, use money wisely, understand education and career choices, and understand how to be financially responsible citizens. Students will be introduced to key concepts from both micro and macroeconomics, as well as financial literacy concepts such as the cost of credit, planning and budgeting for large purchases, home mortgages, and college expenses, and other relevant financial literacy issues.

### **Economics and Personal Finance Honors**

Course #: 43195X0

Credits: 1

Pre-Requisite(s): American History

Economics and Personal Finance provides students with the agency, tools, and knowledge necessary to live in and contribute to a financially sound society. The course was developed in accordance with Session Law 2019-82 to provide instruction on economic principles and provide personal financial literacy instruction. Ultimately, students taking this course will understand economic decisions, use money wisely, understand education and career choices, and understand how to be financially responsible citizens. Students will be introduced to key concepts from both micro and macroeconomics, as well as financial literacy concepts such as the cost of credit, planning and budgeting for large purchases, home mortgages, and college expenses, and other relevant financial literacy issues. In the Honors course writing and

research skills are emphasized and are organized around the student doing extended reading, writing and research assignments in addition to the regular course requirements.

## **FINE ARTS**

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### **Band I**

Course #: 52552X0C

Credits: 1

Pre-Requisite(s): None

Beginners' band is an entry-level course continuing to build on the comprehensive music education students have received in grades K-8. Band students will study and perform various musical styles. Students should develop an appreciation and understanding of the value of music, and demonstrate appropriate instrumental practices. Public performances are an essential part of the class. For each student, special emphasis is placed on music performances. Students will be graded on their ability as well as on their efforts.

### **Band II**

Course #: 52562X0C

Credits: 1

Pre-Requisite(s): Band I

High school band students will study various musical styles. A continuation of music theory, musical symbols and terms, and music history are included in class objectives. Students should develop an appreciation and understanding of the value of music. Public performances are an essential part of the class. For each student, special emphasis is placed on music performances.

### **Honors Band III**

Course #: 52575X0C

Credits: 1

Pre-Requisite(s): Band II

Honors Band III addresses the competency goals and objectives of the North Carolina Standard Course of Study for Instrumental Music III and provides additional extensions of these goals and objectives as a foundation for advanced proficiencies in performance, conducting, listening, appreciation, history, analyzing, composing, the use of current technology, and research culminating in written reports.

### **Honors Band IV**

Course #: 52585X0C

Credits: 1

Pre-Requisite(s): Honors Band III

Honors Band IV is an advanced continuation of Honors Band III and addresses the competency goals and objectives of the North Carolina Standard Course of Study for Instrumental Music IV and provides additional extensions of these goals and objectives as a foundation for advanced proficiencies in performance, conducting, listening, appreciation, history, analyzing, composing, the use of current technology, and research culminating in written reports.

## **Honors Band V**

Course #: 52965X0

Credits: 1

Pre-Requisite(s): Honors Band IV

Honors Band V is an advanced continuation of Honors Band V and addresses the competency goals and objectives of the North Carolina Standard Course of Study for Instrumental Music V and provides additional extensions of these goals and objectives as a foundation for advanced proficiencies in performance, conducting, listening, appreciation, history, analyzing, composing, the use of current technology, and research culminating in written reports.

## **HEALTH & PHYSICAL EDUCATION**

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### **Health and Physical Education**

Course #: 60492X0

Credits: 1

Pre-Requisite(s): None

This course is designed to develop the skills necessary for creating and maintaining a healthy and satisfying lifestyle. To meet this goal, the course keeps the students aware of current and ever-changing health issues. Areas of study include family life, drug education, physical fitness, and communicable and non-communicable diseases. The physical education portion of the course is designed to teach the importance of physical fitness. Emphasis is placed upon developing optimal hand-eye and foot-eye coordination. Experiences are provided for team play and team strategy. Proper attire and participation are required. The units of instruction include individual, dual, and team sports; conditioning exercises; and recreational sports.

### **Advanced PE**

Course #: 60392X0A

Credits: 1

Pre-Requisite(s): Health and Physical Education

This course is designed to develop attitudes and techniques, which will enable the student to take part in lifetime sports with an increased degree of knowledge, skill and satisfaction. Emphasis is placed on the development of specific skills, acquiring knowledge of activity and its history, participation, physical development, and student leadership. Students are provided with opportunities in the following areas: warm-up and conditioning activities; individual and dual activities - golf, tennis, weight training, wrestling, jogging, recreational games and gymnastics; fitness testing; team games - basketball, softball, volleyball, soccer; rhythms; and folk, social, and modern dancing.

### **Physical Ed Local Elective**

Course #: 60392X0

Credits: 1

Pre-Requisite(s): Health and Physical Education

Emphasis in this course is on advanced skills and a complete knowledge of an appreciation for the rules safety, strategy, and techniques of weight lifting. This course is for students who are interested in developing endurance and strength of the body and fitness. Weightlifting, ply metric, stretching, springs, running and team games. Athletes will be given first preference.

### **Physical Conditioning I**

Course #: 96102X0PC1

Credits: 1

Pre-Requisite(s): Health and Physical Education

Emphasis in this course is on advanced skills and a complete knowledge of an appreciation for the rules safety, strategy, and techniques of weight lifting. This course is for students who are interested in developing endurance and strength of the body and fitness. Weightlifting, ply metric, stretching, springs, running and team games. Athletes will be given first preference.

### **Physical Conditioning II**

Course #: 96102X0PC2

Credits: 1

Pre-Requisite(s): Physical Conditioning I

Emphasis in this course is on advanced skills and a complete knowledge of an appreciation for the rules safety, strategy, and techniques of weight lifting. This course is for students who are interested in developing endurance and strength of the body and fitness. Weightlifting, ply metric, stretching, springs, running and team games. Athletes will be given first preference.

### **Physical Fitness I**

Course #: 60602X0

Credits: 1

Pre-Requisite(s): Health and Physical Education

Emphasis in this course is on advanced skills and a complete knowledge of an appreciation for the rules safety, strategy, and techniques of weight lifting. This course is for students who are interested in developing endurance and strength of the body and fitness. Weightlifting, ply metric, stretching, springs, running and team games. Athletes will be given first preference.

### **Physical Fitness II**

Course #: 60612X0

Credits: 1

Pre-Requisite(s): Physical Fitness I

Emphasis in this course is on advanced skills and a complete knowledge of an appreciation for the rules safety, strategy, and techniques of weight lifting. This course is for students who are interested in developing endurance and strength of the body and fitness. Weightlifting, ply metric, stretching, springs, running and team games. Athletes will be given first preference.

## **JUNIOR ROTC**

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### **JROTC I**

Course #: 95012X0

Credits: 1

Pre-Requisite(s): None

This course includes classroom instruction and laboratory instruction in the history, customs, traditions, and purpose of Army JROTC. It contains the development of basic leadership skills to include leadership principles, values and attributes. Development of core skills students could master, an appreciation for diversity, and active learning strategies are integrated throughout the course. Emphasis is placed on writing skills and oral communications techniques. Financial planning is introduced. Physical fitness, diet, nutrition, healthy life-styles, and awareness of substance abuse and prevention and basic first aid measures are additional content areas. An overview of geography and the globe are incorporated. Also included is a study of the U.S. Constitution, Bill of Rights, responsibilities of U.S. citizens and the federal justice system. The performance standards in this course are based on the performance standards identified in the curriculum for the US Army JROTC.

### **JROTC II**

Course #: 95022X0

Credits: 1

Pre-Requisite(s): JROTC I

This course includes classroom instruction and laboratory instruction in teamwork, Maslow's hierarchy of needs, speaking and writing, developing potential, self-image, self-esteem and personal values, creating your own success, setting goals, developing dental hygiene and appreciation of music, learning how to study search for a career and write a resume, study smart, build a team, resolve conflicts and perform community service. The performance standards in this course are based on the performance standards identified in the curriculum for the US Army JROTC.

### **JROTC III**

Course #: 95032X0

Credits: 1

Pre-Requisite(s): JROTC II

This course includes classroom instruction and laboratory instruction expanding on skills taught in JROTC I - II. This course introduces equal opportunity and sexual harassment. It provides instruction on leadership styles and practical time to exercise leadership theories as well as the basic principles of management. It provides self-assessments that help students determine their skill sets and opportunities to teach using accepted principles and methods of instruction. It emphasizes community projects to assist in drug prevention efforts, includes dietary guidelines and fitness, and introduces map reading skills. It discusses the significant events that helped shape, develop the Constitution and government, and teaches the role of political parties in the election process. The performance standards in this course are based on the performance standards identified in the curriculum for the US Army JROTC.

### **JROTC IV**

Course #: 95042X0

Credits: 1

Pre-Requisite(s): JROTC III

This course includes classroom instruction and laboratory instruction in defining potential, understanding attitude and its relationship to performance, understanding conditioning and motivation, developing success habits and thought processes, understanding how words and self-image affect performance, learning how to write positive affirmations and use them to affect positive change. Students will study character education and development and perform a community service project based on what they have learned. Students can earn two college credits from the University of Colorado at Colorado Springs (UCCS)\* for completing studies in character education and performing related service projects. The performance standards in this course are based on the performance standards identified in the curriculum for the US Army JROTC.

### **JROTC V**

Course #: 95052X0

Credits: 1

Pre-Requisite(s): JROTC IV

This course includes classroom instruction and laboratory instruction expanding on the skills taught in JROTC I - IV. This course allows cadets to experience leadership development and decision-making skills. It includes negotiation skills and management principles. It emphasizes staff procedures and provides leadership situations and opportunities to handle various leadership situations as well as execution of service learning activities. This course gives cadets the opportunity to apply basic concepts of career exploration strategies and planning. It teaches how to create a career portfolio and plan for college work. Financial management principles are studied further. Skills for orienteering and/ or land navigation are developed. Included are studies in the federal judicial system and how historical events shaped social systems. The performance standards in this course are based on the performance standards identified in the curriculum for the US Army JROTC.

### **JROTC VI**

Course #: 95062X0

Credits: 1

Pre-Requisite(s): JROTC V

This course includes classroom instruction and laboratory instruction in economics. Students will learn how to manage their finances, budget, save, invest, purchase insurance, and manage credit. Once they have completed the course in financial management/economics and performed a related service, they can earn two college credits from the University of Colorado Springs UCCCS)\*. They are expected to take leadership roles in the community service projects performed based on their high level of leadership development. The performance standards in this course are based on the performance standards identified in the curriculum for the US Army JROTC.

### **JROTC VII**

Course #: 95072X0

Credits: 1

Pre-Requisite(s): JROTC VI

This course includes classroom instruction and laboratory instruction expanding on the skills taught in JROTC I - VI. It focuses on creating a positive leadership situation, negotiating, decision-making, problem



solving, planning, and demonstrating leadership potential in an assigned command or staff position within the cadet battalion organizational structure. It includes how to use emotional intelligence, instruction on etiquette, daily planning, financial planning, and careers. It includes fitness through healthy individual and group competition. The interactions between groups of people and how they affect the area's cultural, economic, and political characteristics are discussed. It explores various methods on determining distance, direction, and locations as well as environmental issues. Concepts of democracy and freedom and how to influence local governments are discussed. The performance standards in this course are based on the performance standards identified in the curriculum for the US Army JROTC.

### **JROTC VIII**

Course #: 95082X0

Credits: 1

Pre-Requisite(s): JROTC VII

This course includes classroom instruction and laboratory instruction in writing and advanced citizenship. Students will learn the basic components of writing to prepare for college English or their career. They will use citizenship action groups to perform community service projects related to governmental processes. Once they have completed a course in citizenship and performed a related service, they can earn two college credits from the University of Colorado at Colorado Springs (UCCS)\*. They are expected to take leadership roles in the community service projects performed based on their high level of leadership development. The performance standards in this course are based on the performance standards identified in the curriculum for the US Army JROTC.

## **FOREIGN LANGUAGES**

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### **Spanish I**

Course #: 11412X0C

Credits: 1

Pre-Requisite(s): None

Spanish I is an introduction to basic written and spoken communication skills, with cultural explanations where appropriate.

Included are: the alphabet, pronunciation, greetings, conversational skills, extensive vocabulary, parts of speech, sentence construction, basic verb tenses, and short compositions lessons are taught predominantly in Spanish, with the exception of reviews and grammar explanations. To be successful, a good command of English grammar is needed and a prior 'C' average or better in English I is recommended.

### **Spanish II**

Course #: 11422X0C

Credits: 1

Pre-Requisite(s): Spanish I

Spanish II continues to refine the communication skills introduced in Spanish I. This course is primarily taught in Spanish with very few exceptions. The following components are included: new vocabulary, more sophisticated grammar constructions, more complex verb tenses, and cultural studies. Translating articles, oral presentations, and composing essays will be of primary importance.

### **Honors Spanish III (Weighted)**

Course #: 11435X0C

Credits: 1

Pre-Requisite(s): Spanish II

Spanish III further expands the skills acquired in Spanish II. Students concentrate on conversation, composition, advanced grammar, and especially extensive, useful vocabulary. Authentic Spanish literature will be read and discussed. Communication skills will be refined via oral presentations and written essays. The main goal will be to use and understand Spanish proficiently by speaking, listening, reading and writing it.

## **CAREER & TECHNICAL EDUCATION**

### **AGRICULTURE, FOOD, & NATURAL RESOURCES – PLANT SYSTEMS**

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#### **Horticulture I**

Course #: AP412X0

Credits: 1

Pre-Requisite(s): None

This course provides instruction on the broad field of horticulture with emphasis on the scientific and technical knowledge for a career in horticulture. Topics in this course include plant growth and development, plant nutrition, media selection, basic plant identification, pest management, chemical disposal, customer relations, and career opportunities. English language arts, mathematics, and science are reinforced. Work-based learning strategies appropriate for this course are apprenticeship, cooperative education, internship, mentorship, school-based enterprise, job shadowing, and supervised agricultural experience. FFA competitive events, community service, and leadership activities provide the opportunity to apply essential standards and workplace readiness skills through authentic experiences.

#### **Horticulture II**

Course #: AP422X0

Credits: 1

Pre-Requisite(s): Horticulture I

This course covers instruction that expands scientific knowledge and skills to include more advanced scientific computations and communication skills needed in the horticulture industry. Topics include greenhouse plant production and management, bedding plant production, watering systems, light effects, basic landscape design, installation and maintenance, lawn and turfgrass management, and personal development. English language arts, mathematics, and science are reinforced. Work-based learning strategies appropriate for this course are apprenticeship, cooperative education, entrepreneurship, internship, mentorship, school-based enterprise, service learning, job shadowing, and supervised agricultural experience. FFA competitive events, community service, and leadership activities provide the opportunity to apply essential standards and workplace readiness skills through authentic experiences.

## **AGRICULTURE, FOOD, & NATURAL RESOURCES – POWER, STRUCTURAL, AND TECHNICAL SYSTEMS**

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### **Agricultural Mechanics I**

Course #: AS312X0

Credits: 1

Pre-Requisite(s): None

This course develops knowledge and technical skills in the broad field of agricultural machinery, equipment, and structures. The primary purpose of this course is to prepare students to handle the day-to-day problems and repair needs they will encounter in their chosen agricultural career. Topics include agricultural mechanics safety, agricultural engineering career opportunities, hand/power tool use and selection, electrical wiring, fencing, paints and preservatives, basic metal working, basic agricultural construction skills related to plumbing, carpentry, basic welding, and leadership development. English language arts, mathematics, and science are reinforced.

### **Agricultural Mechanics II Honors**

Course #: AS3225X0

Credits: 1

Pre-Requisite(s): Agricultural Mechanics I

In this course, the topics of instruction emphasized are non-metallic agricultural fabrication techniques, metal fabrication technology, safe tool and equipment use, human resource development, hot/cold metal working skills and technology, advanced welding and metal cutting skills, working with plastics, plumbing, concrete and masonry, agricultural power and advanced career exploration/decision making. English language arts, mathematics, and science are reinforced.

## **ARTS, A/V TECHNOLOGY, & COMMUNICATIONS – DIGITAL DESIGN AND ANIMATION**

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### **Digital Design and Animation I**

Course #: TS242X0

Credits: 1

Pre-Requisite(s): None

Digital Design and Animation I is an introductory level course focusing on the concepts and tools used by digital artists in a wide variety of creative careers including graphic design, film, and game design. Students work with professional-grade creative software packages to develop 2D and 3D digital graphics and audio/video media. Students use Adobe CC Suite, and digital 3D modeling with 3DS Max to build needed skills for subsequent courses.

### **Digital Design and Animation II**

Course #: TS252X0

Credits: 1

Pre-Requisite(s): Digital Design and Animation I

Digital Design and Animation II emphasizes the use of industry-standard digital technology and media to help students develop the artistic and technical skills necessary to plan, analyze, and create visual

solutions to 21st Century communications problems. Students engage in digital art activities using professional-grade creative software packages to develop complex 2D and 3D digital graphics and audio/video media. Students apply Adobe CC Suite and 3DS Max skills to industry-related activities and projects, mirroring workplace scenarios.

## **FINANCE – FINANCIAL PLANNING**

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### **Principles of Business and Finance (NCEC Only)**

Course #: BF102X0

Credits: 1

Pre-Requisite(s): None

This course introduces students to topics related to business, finance, management, and marketing to cover business in the global economy, functions of business organization and management, marketing basics, and significance of business financial and risk management. English language arts, social studies, and mathematics are reinforced.

### **Financial Planning I (NCEC Only)**

Course #: BF212X0N

Credits: 1

Pre-Requisite(s): None

This course is designed to cover key strategies for wealth building as students learn to evaluate businesses for investment opportunities while incorporating current headlines and trends, financial resources, and stock market simulation. Also students will develop techniques to enhance personal

wealth building for a secure financial future. Current technology will be used to acquire information and to complete activities. Throughout the course, students are presented ethical dilemmas and problem-solving situations for which they must apply academic, team-building and critical-thinking skills.

### **Financial Planning II (NCEC Only)**

Course #: BF222X0N

Credits: 1

Pre-Requisite(s): Financial Planning I

Students will further develop the fundamental knowledge and skills acquired in the prerequisite course to create a business financial plan; including loans, insurance, taxes, corporate governance, and explore the various risks and returns associated with business activities. Emphasis will be placed on analyzing ethical situations in various aspects of finance in local, national and global business environments. Current technology will be used to acquire information and to complete activities. Throughout the course, students are presented ethical dilemmas and problem-solving situations for which they must apply academic, team-building and critical-thinking skills.

## **HOSPITALITY & TOURISM – CULINARY ARTS INTERNSHIP**

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### **Culinary Arts and Hospitality I**

Course #: FH102X0

Credits: 1

Pre-Requisite(s): None

This course is designed to introduce students to the hospitality and food service industry by learning about components of professional practice and building basic knowledge and skills in food preparation, garde manger, baking, and food service operations. The introduction includes students learning food safety, breakfast cookery, salads and sandwiches, quick breads and cookies, and dining room service. Art, English language arts, mathematics, science, and social studies are reinforced.

### **Culinary Arts and Hospitality II Internship**

Course #: FH126X0

Credits: 1

Pre-Requisite(s): Culinary Arts and Hospitality I

This course is designed for students to demonstrate their knowledge and skills in basic food preparation, garde manger, baking and food service operations through mentored work experiences in the food service industry. The experience includes students preparing and selling breakfast items, salads and sandwiches, and quick breads and cookies while applying safety, sanitation, and guest service skills. Arts, English and language arts, mathematics, science, and social studies are reinforced.

### **Culinary Arts and Hospitality III**

Course #: FH132X0

Credits: 1

Pre-Requisite(s): Culinary Arts and Hospitality II Internship

This course is designed for students to further develop their knowledge and skills through learning about advanced food preparation, grade manager, baking and pastry, and food service operations. The experience includes students learning cooking techniques, food preservation, yeast breads and pastries preparation, human relations management, menu planning, and food service purchasing and receiving. Arts, English and language arts, mathematics, science, and social studies are reinforced.

## **HUMAN SERVICES – EARLY CHILDHOOD DEVELOPMENT & SERVICES**

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### **Child Development**

Course #: FE602X0N

Credits: 1

Pre-Requisite(s): None

This course introduces students to responsible nurturing and basic applications of child development theory with children from infancy through age six. Areas of study include parenthood decisions, child care issues, prenatal development and care, and development and care of infants, toddlers, and children three through six. Emphasis is on responsibilities of parents, readiness for parenting, and the influence parents have on children while providing care and guidance. Art, English language arts, and science are reinforced.

## **Early Childhood Education I**

Course #: FE112X0

Credits: 2

Pre-Requisite(s): Child Development

This two-credit course prepares students to work with children in early education and child care settings. Areas of study include personal and professional preparation, child development from birth to age 12, techniques and procedures for working with young children, and history, trends and opportunities in this field. An internship makes up 50 percent of instructional time. Work-based learning strategies appropriate for this course include internship, mentorship, service learning, and job shadowing. Cooperative education and apprenticeship are not available for this course. Family, Career and Community Leaders of America (FCCLA) competitive events, community service, and leadership activities provide the opportunity to apply essential standards and workplace readiness skills through authentic experiences. Parenting and Child Development is recommended as preparation for this course. Because they intern in early childhood centers that must meet NC Child Care General Statute 110.91, Section 8, students must be 16 years of age prior to October 1 to enroll in this course.

[http://www.ncga.state.nc.us/EnactedLegislation/Statutes/HTML/BySection/Chapter\\_110/GS\\_110-91.html](http://www.ncga.state.nc.us/EnactedLegislation/Statutes/HTML/BySection/Chapter_110/GS_110-91.html)

## **Early Childhood Education II**

Course #: FE125X0

Credits: 2

Pre-Requisite(s): Early Childhood Education I

This two-credit course provides advanced experiences in working with children from infancy to age 12 in early education and child care settings. Areas of study include program planning and management, developmentally appropriate practice, procedures and strategies for working with special groups of children, and career development and professionalism. An internship makes up 50 percent of instructional time. Work-based learning strategies appropriate for this course include internship, mentorship, service learning, and job shadowing. Cooperative education and apprenticeship are not available for this course. Family, Career and Community Leaders of America (FCCLA) competitive events, community service, and leadership activities provide the opportunity to apply essential standards and workplace readiness skills through authentic experiences. Because they intern in early childhood centers that must meet NC Child Care General Statute 110.91, Section 8, students must be 16 years of age prior to October 1 to enroll in this course.

[http://www.ncga.state.nc.us/EnactedLegislation/Statutes/HTML/BySection/Chapter\\_110/GS\\_110-91.html](http://www.ncga.state.nc.us/EnactedLegislation/Statutes/HTML/BySection/Chapter_110/GS_110-91.html)

## HEALTH SCIENCE – HEALTHCARE PROFESSIONAL

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### Foundations of Health Science

Course #: HU102X0N

Credits: 1

Pre-Requisite(s): None

This course is designed to assist potential health care workers in their role and function as health team members. Topics include terminology, the history of health care, health care agencies, ethics, legal responsibilities, careers, holistic health, human needs, change, cultural awareness, communication, medical math, leadership, and career decision-making. Work-based learning strategies include service learning, field trips, and job shadowing. Basic academic skills, employability skills, critical thinking skills, teamwork, and the use of technology are reinforced in this course. HOSA leadership activities provide many opportunities for practical application of instructional competencies.

### Health Science I

Course #: HU402X0

Credits: 1

Pre-Requisite(s): Foundations of Health Science

This course focuses on human anatomy, physiology and human body diseases and disorders, and biomedical therapies. Students will learn about health care careers within the context of human body systems. Projects, teamwork, and demonstrations serve as instructional strategies that reinforce the curriculum content. English language arts and science are reinforced in this course. Work-based learning strategies appropriate for this course include service learning and job shadowing. Apprenticeship and cooperative education are not available for this course. Health Occupations Students of America (HOSA) competitive events, community service, and leadership activities provide the opportunity to apply essential standards and workplace readiness skills through authentic experiences. Biology is recommended as preparation for this course.

### Health Science II

Course #: HU422X0

Credits: 1

Pre-Requisite(s): Health Science I

This course is designed to help students expand their understanding of financing and trends of health care agencies, fundamentals of wellness, legal and ethical issues, concepts of teamwork, and effective communication. Students will learn health care skills, including current CPR and first aid training. English language arts and science are reinforced in this course. Work-based learning strategies appropriate for this course include internship, mentorship, service learning, and job shadowing. Apprenticeship and cooperative education are not available for this course. Health Occupations Students of America (HOSA) competitive events, community service, and leadership activities provide the opportunity to apply essential standards and workplace readiness skills through authentic experiences.

### Nursing Fundamentals and Practicum

Course #: HN435X0

Credits: 2

Pre-Requisite(s): Health Science II

This course is designed for students interested in medical careers where personal care and basic nursing skills are used. This course is an enhanced adaptation of the North Carolina Division of Health Service

Regulation (DHSR) Nurse Aide I (NAI) curriculum and helps prepare students for the National Nurse Aide Assessment (NNAAP). Students who pass the NNAAP become listed on the NC NAI Registry. English language arts mathematics, and science are reinforced.

### **Fundamentals of Gerontology**

Course #: HN442X0

Credits: 1

Pre-Requisite(s): Health Science II

This course is designed to assist future healthcare professionals to understand the unique physical and psychological changes related to aging. Healthcare strategies to meet the needs of the aging population will be addressed. Healthcare agencies may require testing for tuberculosis and/or other diseases and a criminal record check for felonies related to drugs.

### **Public Health Fundamentals**

Course #: HN452X0

Credits: 1

Pre-Requisite(s): Health Science II

Adapted from the NC Division of Health Services Regulation, this course is designed to assist future healthcare professionals understand the unique challenges and strategies involved in the delivery of healthcare outside traditional facilities and without traditional supervision structure, and is responsive to overwhelming need for community based healthcare. HN43 Nursing Fundamentals is recommended as good preparation for this course. However, students may take HN45 Public Health Fundamentals before or after HN43 Nursing Fundamentals.

### **Pharmacy Technician Honors**

Course #: HH325X0

Credits: 1

Pre-Requisite(s): Health Science II

This course has self-paced, on-line instruction designed to prepare high school seniors for a pharmacy technician career. Topics included in this course are federal law, medication used in major body systems, calculations, and pharmacy operations. Mathematics is reinforced in this course.

## **CTE PATHWAY ADVANCED COURSES**

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*\*\*Each pathway has its own set of these advanced courses. Course codes vary based on pathway.\*\**

### **CTE Advanced Studies AAVC**

Course #: Varies

Credits: 1

Pre-Requisite(s): Required courses to complete pathway

This culminating course is for juniors and seniors who have earned two technical credits, one of which is a completer course, in one Career Cluster. The Advanced Studies course must augment the content of the completer course and prepare students for success in transitioning to postsecondary education and future careers. Students work under the guidance of a teacher with expertise in the content of the completer course in collaboration with community members, business representatives, and other school-based personnel. The four parts of the course include writing a research paper, producing a product, developing



a portfolio, and delivering a presentation. Students demonstrate their abilities to use 21st century skills. Competitive events, community service, and leadership activities provide the opportunity to apply essential standards and workplace readiness skills through authentic experiences.

### **CTE Apprenticeship AAVC**

Course #: Varies

Credits: 1

Pre-Requisite(s): Required courses to complete pathway

Students who participate in apprenticeships or pre-apprenticeships through the North Carolina Department of Commerce can also earn CTE credit while they earn hours and experience toward an adult apprenticeship leading to a completed journeyman certificate.

### **CTE Internship AAVC**

Course #: Varies

Credits: 1

Pre-Requisite(s): Required courses to complete pathway

A CTE Internship allows for additional development of career and technical competencies within a general career field. Internships allow students to observe and participate in daily operations, develop direct contact with job personnel, ask questions about particular careers, and perform certain job tasks. This activity is exploratory and allows the student to get hands-on experience in a number of related activities. The teacher, student, and the business community jointly plan the organization, implementation, and evaluation of an internship, regardless of whether it is an unpaid or paid internship.

## **OCCUPATIONAL COURSE OF STUDY**

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### **English I Occ**

Course #: 9210BX0

Credits: 1

Pre-Requisite(s): None

This course covers standards in the areas of communication, language and meaning, critical thinking, and research. Students will use the writing process to develop a product and understand appropriate presentation skills. Use of a variety of strategies to comprehend texts and understand appropriate language and conventions in all forms of communication will be a focus in the course. Students will be expected to analyze cause and effect relationships in literature and real life, analyses of cause and effect relationships in literature and real life, and analyses of events in the context of culture and literature. Students will develop an understanding of literary elements and rhetorical techniques as well as literary and informational texts. Application of research tools and techniques to selected topics will be presented. \*At select schools the course is taught in a blended learning environment with collaborative instruction delivered by an online highly-qualified English teacher as well as a face-to-face OCS teacher.

### **English II Occ**

Course #: 9211BX0

Credits: 1

Pre-Requisite(s): English I Occ

This course covers standards in the areas of oral and written communication, language and meaning, critical thinking and research in a more complex manner. Students will create increasingly complex oral

and written responses for a variety of audiences, purposes, and contexts. The learner will use these skills in the development of presentations. Students will use a variety of strategies to comprehend text, and use appropriate language and conventions in all forms of communications. Analyses of texts in visual, auditory, and digital formats will be taught. Students will create research studies focusing on global issues and create oral, written, and visual products focusing on global issues. At the completion of this course, students must be assessed using the English II EOC with documented accommodations and modifications. \*At select schools the course is taught in a blended learning environment with collaborative instruction delivered by an online highly-qualified English teacher as well as a face-to-face OCS teacher.

### **English III Occ**

Course #: 9212BX0

Credits: 1

Pre-Requisite(s): English II Occ

This course covers standards in the areas of communication, language and meaning, critical thinking and research through multifaceted approaches. Students will develop an understanding of literary and informational texts. They will use appropriate communication skills in employment, post-secondary education/training and independent living settings and be able to create written products using a template or form. Focusing on post-secondary education/training and independent living, the student will apply reading and comprehension strategies to informational texts in the specific domains. The learner will carry out problem-solving process as it relates to personal life situations and apply the knowledge of cause and effect to decision making. The course will summarize the importance of forming a viewpoint in situations related to adult living. \*At select schools the course is taught in a blended learning environment with collaborative instruction delivered by an online highly-qualified English teacher as well as a face-to-face OCS teacher.

### **English IV Occ**

Course #: 9213BX0

Credits: 1

Pre-Requisite(s): English III Occ

This course covers standards in the areas of communication, language and meaning, critical thinking and research through comprehensive methodologies. Students will apply information from literary and informational texts to carry out adult -living tasks and activities. They will communicate options that can be used to a variety of audiences. The course requires the student to construct written products without reliance on templates and/or forms and apply reading comprehension strategies to informational texts found in employment, post-secondary education/training, and independent living domains. The course requires the student to develop plans to solve problems that occur in adult life, while being able attribute the impact of cause and effect on a given real life problem and to generate a viewpoint based on current events in written text or personal life situations. \*At select schools the course is taught in a blended learning environment with collaborative instruction delivered by an online highly qualified English teacher as well as a face-to-face OCS teacher.

### **Introduction to Mathematics I Occ**

Course #: 9220BX0

Credits: 1

Pre-Requisite(s): None

This course covers number and operations, geometry, measurement, algebra, statistics and probability. It uses the core standards so students can understand rational numbers, apply mathematical operations

with rational numbers, and apply ratios, proportions and percents to solve problems. Students will use time and measurement to solve problems. Algebraic properties will be used to solve problems and to understand patterns and relationships. Students will develop an understanding of data in terms of graphical displays, measure of center and range. \*At select schools the course is taught in a blended learning environment with collaborative instruction delivered by an online highly-qualified math teacher as well as a face-to-face OCS teacher.

### **NC Math I Occ**

Course #: 9225BX0

Credits: 1

Pre-Requisite(s): Introduction to Mathematics I Occ

This course uses the core standards to provide students a more complex mathematical curriculum. Following the format studied in Introduction to Mathematics, the course covers number and operations, geometry, measurement, algebra, statistics and probability, while adding the area of discrete algebra. Students will be required to use ratios and rates to solve problems and use properties of exponents to simplify expressions. They will use properties and strategies to combine and factor algebraic expressions, use direct and indirect variations to solve problems, analyze patterns of change in functional relationships, understand functions based on mathematical and real world phenomena, and use strategies to find solutions for linear and exponential relationships. They will be required to analyze properties of geometric shapes in the Cartesian coordinate system and use formulas to solve problems involving area and volume. They will analyze statistical distributions in terms of the relationships among shape, center, spread and outliers and infer trends in bivariate data. Students will use vertex-edge graphs to route and optimize critical paths. \*At select schools the course is taught in a blended learning environment with collaborative instruction delivered by an online highly-qualified math teacher as well as a face-to-face OCS teacher.

### **Financial Management Occ**

Course #: 9222BX0

Credits: 1

Pre-Requisite(s): NC Math I Occ

This course focuses on the application of skills needed for independent living. Emphasis is placed on financial management and planning. Students will develop an understanding of state and federal income taxes, wages compensation, and the use of credit. They will be introduced to different types of insurance to meet personal needs while applying math skills to consumer spending. \*At select schools the course is taught in a blended learning environment with collaborative instruction delivered by an online highly-qualified math teacher as well as a face-to-face OCS teacher.

### **Applied Science Occ**

Course #: 9231BX0

Credits: 1

Pre-Requisite(s): None

This course covers core standards in forces and motion, energy, electricity and magnetism, matter, chemicals, and the environment. Through course design the students will learn concepts and describe attributes associated with weight, mass, and types of force. Energy and conservation will be defined with an explanation of related effects. Students will develop an understanding of electricity and magnetism as well as the properties of matter. They will identify the uses and dangers of common chemicals. The course covers how humans can have positive and negative effects on the environment. Students will develop an understanding of the human body's basic needs and control systems (including common health

indicators). \*At select schools the course is taught in a blended learning environment with collaborative instruction delivered by an online highly-qualified science teacher as well as a face-to-face OCS teacher.

### **Biology Occ**

Course #: 9232BX0

Credits: 1

Pre-Requisite(s): Applied Science Occ

This course covers standards in the areas of structure and functions of living organisms, evolution & genetics, and molecular biology. Students will understand the relationship between the structures and functions of cells and their organelles and the analysis of the cell as a living system. Students will explore the interdependence of living organisms within their environment and learn the impact of human activities on the environment generation to generation. The course explains how traits are determined by the structure and function of DNA and how the environment, and/or the interaction of alleles, influences the expression of genetic traits, as well as the application of DNA technology. The theory of evolution by natural selection as a mechanism for how species change over time is covered, including how classification systems are developed based upon speciation. Students will develop an understanding of how biological molecules are essential to the survival of living organisms. They will analyze the relationship between biochemical processes and energy use. At the completion of the course, the student must be assessed using the Biology EOC with documented accommodations and modifications. \*At select schools the course is taught in a blended learning environment with collaborative instruction delivered by an online highly-qualified science teacher as well as a face-to-face OCS teacher.

### **American History I Occ**

Course #: 9247BX0

Credits: 1

Pre-Requisite(s): None

The American History I course is intended to be taught prior to the American History II course. The American History I course is strategically aligned with the North Carolina Essential Standards for American History I. The course follows the Founding Principles Act and begins with the European Exploration and Colonization of the New World and follows chronologically through Post -Civil War Reconstruction. Students will learn about the important political, social, and economic factors that contributed to the development of colonial America, the onset of the American Revolution, and the results of the Revolution including the founding of the United States government and the drafting of founding documents including the Constitution and the Bill of Rights. Students will also learn about early domestic and foreign policy, westward expansion, reform, immigration, and the cultural variances that have both united and divided America. Pre-Assessments will be used as diagnostic tools. Meanwhile, students will work through Bloom's Taxonomy Hierarchy through completing lesson notes, formative assessments, completion assignments, and they will show mastery of learning through culminating projects and summative assessments. \*At select schools the course is taught in a blended learning environment with collaborative instruction delivered by an online highly-qualified social studies teacher as well as a face-to-face OCS teacher.

## **American History II Occ**

Course #: 9248BX0

Credits: 1

Pre-Requisite(s): American History I Occ

The American History II course is a sequel course to American History I. The course is strategically aligned with the North Carolina Essential Standards for American History II. The course follows the Founding Principles Act and begins with late 19th century American History to the 21st century. Students will learn about the important political, social, and economic factors that transformed the ethnic composition of America and America's dependence on evolving technologies. Students will also learn about 19th - 21st century domestic and foreign policy, westward expansion, reform movements, immigration, and the cultural variances that have both united and divided America. Pre-Assessments will be used as diagnostic tools. Meanwhile, students will work through Bloom's Taxonomy Hierarchy through completing lesson notes, formative assessments, completion assignments, and they will show mastery of learning through culminating projects and summative assessments. \*At select schools the course is taught in a blended learning environment with collaborative instruction delivered by an online highly-qualified social studies teacher as well as a face-to-face OCS teacher.

## **Preparation I Occ**

Course #: 9240BX0

Credits: 1

Pre-Requisite(s): None

This course is designed to introduce students to the fundamental attitudes, behaviors, and habits needed to obtain and maintain employment in their career choice and make career advancements. Students will participate in school-based learning activities including work ethic development, job-seeking skills, decision-making skills, and self-management. Students will be involved in on-campus vocational training activities such as school factories, work-based enterprises, hands-on vocational training in Career and Technical Education courses and the operation of small businesses. Formal career planning and development of knowledge regarding transition planning begins in this course and continues throughout the strand of Occupational Preparation courses.

## **Preparation II Occ**

Course #: 9241BX0

Credits: 2

Pre-Requisite(s): Preparation I Occ

This course enables students to take one 180-minute class that emphasizes the development of skills generic to careers. This course content is focused on providing students with the basic skills that will serve as a foundation for future career application. Students will expand their school-based-learning activities to include on-campus jobs and begin some work-based learning activities. Job seeking skills will also continue to be refined.

## **Preparation III Occ**

Course #: 9242BX0

Credits: 2

Pre-Requisite(s): Preparation II Occ

This course enables students to take one 180-minute class that is designed to continue the development and begin the application of skills learned in Preparation I and II. Work-based learning activities are provided including community-based training, job shadowing, job sampling, internships, situational

assessment, cooperative education and apprenticeships. These work-based activities allow students to apply employability skills to competitive employment settings and demonstrate the effectiveness of their work personality. Multiple opportunities for leadership development and self-determination are provided.

### **Preparation IV Occ**

Course #: 9243BX0

Credits: 1

Pre-Requisite(s): Preparation III Occ

This course gives students the opportunity to synthesize all the skills acquired in previous preparation courses and apply them to their personal career choice. This course will allow students to solve work-related problems experienced in competitive employment, practice self-advocacy skills, and master the theoretical and practical aspects of their career choice. Students will complete the 360 hours of integrated competitive employment in a community setting required for successful completion of the Occupational Course of Study. Students will also develop a job placement portfolio that provides an educational and vocational record of their high school experience. Completion of this course assures that all training and paid employment hours have been completed and students are eligible for graduation.

## **EXTENDED STANDARDS**

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### **English/LA I**

Course #: 9310AX0

Credits: 2

This academic course focuses on development of skills needed for communication and comprehension in functional reading and writing. Emphasis is on enabling the student to interact with his environment independently to the extent of his abilities.

### **English/LA II**

Course #: 9311AX0

Credits: 2

This academic course focuses on further development of skills needed for communication and comprehension in functional reading and writing.

### **English/LA III**

Course #: 9312AX0

Credits: 2

This academic course provides development of skills and understanding of functional reading and writing as it pertains to the students interaction with his/her environment in a variety of pre-vocational/vocational settings.

### **English/LA IV**

Course #: 9313AX0

Credits: 2

This academic course provides further development of the skills and understanding of functional reading and writing as it pertains to the students independent interaction with his/her environment in a variety of vocational settings to the extent of his/her abilities.

### **NC Math IA**

Course #: 9324AX0

Credits: 1

This academic course focuses on further development of the math components including recognizing and using numbers, comparing attributes of objects, estimating and measuring, recognizing and using shapes and positions, collecting and interpreting data, and sorting and patterning.

**NC Math IB**

Course #: 9325AX0

Credits: 1

This academic course provides the development of skills that enable the student to interact with the environment in a variety of pre-vocational and vocational settings to the extent of his/her abilities. This course introduces functional components of basic algebra which include describing and comparing geometric figures, solving problems using two- & three-dimensional shapes, using graphs and data, and demonstrating and extending patterns.

**Financial Management I**

Course #: 9322AX0N

Credits: 2

This academic course provides further development in the areas of money, money management, and budgeting.

**Financial Management II**

Course #: 9323AX0N

Credits: 2

This academic course provides further development in the areas of money, money management, and budgeting.

**Life Science**

Course #: 9331AX0

Credits: 2

**Biology A**

Course #: 9332AX0

Credits: 1

**Biology B**

Course #: 9333AX0

Credits: 1

**American History I**

Course #: 9342AX0N

Credits: 2

**American History II**

Course #: 9343AX0N

Credits: 2

**Civics & Governance I**

Course #: 9340AX0N

Credits: 2

**NC Vocational Preparation**

Course #: 9391AX0

Credits: 1

**NC Elective Health, Safety, Ind. Living**

Course #: 9390AX0

Credits: 1