

Welcome!

West Wilkes High School

Registration Guide for 2019-2020

The sections included in this guide will give students and parents detailed information about high school graduation requirements, the Career and College Promise (CCP) program that allows students to take college courses tuition-free, and the curriculum course offerings for next year.

We hope that students will carefully review their options and will plan a high school pathway that prepares them to be career and college ready upon graduation.

Questions about the course selection process or the registration guide should be directed to your school counselor or school administration.

Not all courses are offered at all high schools. Please contact your school counselor if you have questions about specific course offerings.



Graduation Requirements

Graduation Requirements For students entering 9th grade in 2012 and beyond

Credits earned from passing high school courses:

English – 4 credits

Mathematics – 4 credits (NC Math 1, 2 and 3 and one course beyond)

Science – 3 credits (Earth/Environmental, Physical Science, and Biology)

Social Studies – 4 credits (World History, American History I, American History II, and American History: Founding Principles, Civics & Economics)

Healthful Living Education – 1 credit

Specific Electives – 6 credits

Two elective credits from any of the following areas:

- Career & Technical Education (CTE)
- Fine Arts Education
- Second Language (*A second language is not required for graduation, but a two credit minimum is required for admission to any college in the UNC system.*)

Four elective course concentration credits from any of the following areas:

- Career & Technical Education (CTE) Career Cluster
- JROTC
- Fine Arts Education
- Any core area (English, mathematics, science, or social studies)

General Electives – 6 credits from any curriculum area

Other requirements beyond passing the classes listed above:

- CPR Certification
- Graduation Project

Passing required state tests in English, Math, and Biology

Career and College Promise (CCP)

CAREER & COLLEGE PROMISE PROGRAM PROVIDES OPPORTUNITY TO TAKE COLLEGE COURSES, TUITION-FREE, WHILE STILL IN HIGH SCHOOL

High School students in Wilkes County have expanded opportunities to earn college credit at Wilkes Community College under a statewide program called Career & College Promise (CCP).

Career & College Promise offers directed pathways for eligible high school juniors and seniors looking to get a head start on their workplace and college preparation. The pathways include both technical programs and college transfer opportunities, with the courses in each area offered tuition-free to high school students. **However, there is a \$20 fee for each course. Fees must be paid before a student may attend the course.**

2019 FALL SEMESTER (Dates subject to change)

August 26-27 Drop / Add Day (No classes will be added after August 29)
August 28 First Day of CCP Fall Semester Classes on high school campuses
August 30 CCP Fees due to high schools to continue in CCP Course
(if fee is not paid by August 9, student will be dropped from course)

2020 SPRING SEMESTER (Dates subject to change)

January 15 Drop / Add Day (No classes will be added after January 19)
January 17 First Day of CCP Spring Semester Classes on high school campuses
January 21 CCP Fees due to high schools to continue in CCP Course
(if fee is not paid by January 10, student will be dropped from course)

The primary goals of the program are to broaden educational opportunities across the state and to accelerate the process for students to become career ready, all while lowering the overall cost of a college degree.

COLLEGE TRANSFER PATHWAYS

Wilkes Community College will offer two “College Transfer Pathways.” A student must enroll in one pathway and may not substitute courses in one pathway for courses in another.

- Associate in Arts
- Associate in Science

Who is eligible?

- High school juniors and seniors
- Students with at least a 2.8 grade point average.
- Students who have demonstrated college readiness on a college placement test or approved assessment (PLAN, ACT, PSAT, or SAT).

How does a student maintain eligibility?

- Continue to make progress toward high school graduation

- Maintain a 2.0 GPA in college coursework after completing two courses
- What are the benefits?
- Earn credits toward a diploma or associate degree at WCC or general education courses at 4-year colleges and universities.
 - Reduced cost for a two- or four-year degree
 - Accelerated completion of a diploma, an associate degree or four-year degree
 - Readiness skills for success at the next educational level

TECHNICAL PATHWAYS

Wilkes Community College will offer technical pathways (certificates and diplomas) in the following areas:

Business & Public Services Division Programs:

- Accounting
- Business Administration
- Computer Technology Integration—Programming, Networking and Game Development
- Criminal Justice Technology
- Early Childhood Education

Applied Career Technologies Division

- Animal Science Technology
- Applied Engineering Technology
- Automotive Systems Technology
- Architecture and Construction
- Horticulture Technology
- Welding Technology

Who is eligible?

- High school juniors and seniors
- Students interested in pursuing one of the Career and Technical Education (CTE) career clusters. CCP courses can count as “completer” courses in any related cluster.
- Students with at least a 3.0 grade point average on a 4.0 weighted scale OR with principal recommendation.
- Students who have demonstrated college readiness by meeting course prerequisites if required.

What are the benefits?

- A credential, certificate or diploma in a technical career.
- A credential that builds skills for an entry-level job.
- Reduced cost for a two- or four-year degree
- Accelerated completion of a community college diploma, an associate degree or four-year degree

Non-Discrimination Statement Public Notice

In compliance with federal laws, Wilkes County Schools administers all locally operated educational programs, employment activities and admissions without discrimination because of race, religion, national or ethnic origin, color, age, marital status, pregnancy, military service, disability, or gender, and provides equal access to the Boy Scouts and other designated youth groups, except where exemption is appropriate and allowed by law. Questions or concerns should be directed to:

Dr. Westley Wood, Executive Director of Personnel
Chris Skabo, Title IX Coordinator
Jennifer Blankenship, Director of Exceptional Children, ADA
Dr. Joe Bullis, Title 1, ESL/Title III
Anna Lankford, Associate Superintendent, Title II
Wayne Shepherd, CTE, Vocational Programs
April Marr, 504 Coordinator

Wilkes County Schools
613 Cherry Street
North Wilkesboro, NC 28659
Phone: (336) 667-1121

Declaración Sobre la Discriminación

Aviso Público

De acuerdo con las leyes federales todos los programas educativos locales y toda actividad de empleo del sistema escolar del condado de Wilkes se administra sin discriminación en base a la raza, la religión, el origen nacional o étnico, el color, la edad, el estatus marital, estado de embarazo, servicio militar, discapacidad o género, excepto cuando la exención sea la apropiada o permitida por ley. Cualquier pregunta o preocupación puede ser dirigida a:

Dr. Westley Wood, Director Ejecutivo de Recursos Humanos
Chris Skabo, Coordinador de Título IX
Jennifer Blankenship, Directora Ejecutiva del Programa de Enseñanza Especiales, ADA
Dr. Joe Bullis, Título 1, ESL/Título III
Anna Lankford, Superintendente Adjunto, Título II
Wayne Shepherd, Director del CTE, Programas Vocacionales
April Marr, Coordinador de la Sección 504

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English Language Arts Education

English I/Inclusion

10212X00X

Instruction focuses on an introduction to literature with emphasis on a study of genre. Specific classes are designed for students who meet state guidelines for exceptional children. (X) is semester and (Y) is year-long; check with your counselor to verify offerings at your school location.

English I

10212X0X

Students in English 1 explore the ways that audience, purpose, and context shape oral communication, written communication, media, and technology. Emphasis is placed on communicating for purposes of personal expression, students also engage in meaningful communication for expressive expository, argumentative, and literary purposes. All English 1 courses may be paired with Principles of Communication and may be yearlong. (X) is semester and (Y) is year-long; check with your counselor to verify offerings at your school location.

English I/Honors

10215X0X

Instruction focuses on an introduction to literature with emphasis on a study of genre. Honors classes emphasize higher level thinking skills which focus on interdisciplinary and critical perspectives. Specific classes are designed for students who meet state guidelines for exceptional children.

English II/Inclusion

10222X00X

Instruction focuses on world literature and various writings which analyze the literary and design elements of literature. Specific classes are designed for students who meet state guidelines for exceptional children.

PREREQUISITE: English I

English II

10222X0X

Instruction focuses on world literature and various writings which analyze the literary and design elements of literature. Specific classes are designed for students who meet state guidelines for exceptional children.

PREREQUISITE: English I

English II/Honors

10225X0X

Instruction focuses on world literature and the production of materials which analyze the literary and design elements of literature. Honor classes require students to work as self-directed and reflective learners, both independently and in groups as leaders and collaborators. Specific classes are designed for students who meet state guidelines for exceptional children.

PREREQUISITE: English I

English III/Inclusion **10232X00X**

Instruction focuses on examination of themes in American literature. Specific classes are designed for students who meet state guidelines for exceptional children. Courses may be either year-long paired with US History or taken in one semester.

PREREQUISITE: English II

English III **10232X00X**

Instruction focuses on examination of themes in American literature. Emphasis is placed on literary analysis and the research process.

PREREQUISITE: English II

English III/Honors **10235X00X**

Instruction focuses on examination of themes in American literature. Honors classes require students use critical analysis of texts through reading, writing, speaking, listening and using media. Specific classes are designed for students who meet state guidelines for exceptional children. AP Language and Composition is an Advanced Placement introductory college course which may be paired with English 3 Honors and is a year-long course.

PREREQUISITE: English II

English IV/Inclusion **10242X00X**

Instruction focuses on examination of themes in British Literature. Specific classes are designed for students who meet state guidelines for exceptional children. Courses are semester long.

PREREQUISITE: English III

English IV **10242X00X**

Instruction focuses on examination of themes in British Literature. Specific classes are designed for students who meet state guidelines for exceptional children. Courses are semester long.

PREREQUISITE: English III

English IV/Honors **10245X00X**

Instruction focuses on examination of themes in British Literature. Honors classes will explore the literature more widely and deeply, including more complex texts. Specific classes are designed for students who meet state guidelines for exceptional children. Courses are semester long. AP Literature and Composition is an Advanced Placement introductory college course which may be paired with English 4 Honors.

PREREQUISITE: English III

Journalism 1 Honors **10315X00X**

This course is the study, practice, and refinement of the fundamentals of yearbook publication including interviewing, copy writing, layout design, photography, theme development, desktop publishing, and marketing with an emphasis on working as a team, meeting publisher's deadlines, and adhering to ethical standards. Honors students are expected to enter the class with fundamental skills in place in order to

begin book production immediately. They will help train new staff members, provide daily leadership, and take on additional production responsibilities. Application and approval by advisor is required. This course is taught first term.

COURSE NOTE: Teacher approval required. GRADE: 11-12

Journalism 2 Honors 10325X0X

This course is the study, practice, and refinement of the fundamentals of yearbook publication including interviewing, copy writing, layout design, photography, theme development, desktop publishing, and marketing with an emphasis on working as a team, meeting publisher's deadlines, and adhering to ethical standards. Honors students are expected to enter the class with fundamental skills in place in order to begin book production immediately. They will help train new staff members, provide daily leadership, and take on additional production responsibilities. Application and approval by advisor is required. This course is taught first term.

COURSE NOTE: Teacher approval required. GRADE: 11-12

Photojournalism 1 10252X0F

In this elective course, students will learn the basics of shooting and editing digital video. Students will demonstrate skills in digital storytelling through short video projects, public service announcements, and in-house video announcements.

COURSE NOTE: Teacher approval required. GRADE: 9-12

Photojournalism 2 10252X0S

In this elective course, students will build upon the editing skills acquired in Photojournalism I and will utilize increasingly sophisticated editing techniques and special effects in larger video projects, in coverage video of school events, and in-house video announcements.

COURSE NOTE: Teacher approval required. GRADE: 9-12

AP English Language and Composition 1A007X0X

This college-level course provides an analytical and historical study of language and rhetoric in a comprehensive program of reading, writing, and critical thinking. As preparation to take the Advanced Placement Test in Language and Composition, students read, discuss, analyze, and write about challenging works of recognized textual merit to develop honest, concise, and effective use of language and the ability to organize ideas in a clear, coherent, and persuasive way. Independent rhetorical analysis and a total mastery of writing skills are goals of the course. Because this course meets the needs of academically gifted or highly motivated advanced students who hope to bypass introductory courses in composition and literature when they enter college, students in an AP course should expect assignments and instruction paced at the college level. Students are expected to take the English III AP Language and Composition Examination. The student may earn college credit for successful completion of the course and AP examination.

OTHER REQUIREMENTS: Counselor approval required.

Fine Arts Education

Vocal Music/Beginning

52302X0B

Students sing all styles of music through singing. Music terminology, vocal techniques and music reading skills are introduced.

Band /Beginning - Fall

52552X0XFB

Students work to develop greater technical skills and study music of differing styles. The fall course focuses on performance of marching band music and skills. Students must have teacher approval.

Band/Beginning - Spring

52552X0XSB

Students work too develop greater technical skills and study music of differing styles. The spring course teaches concert/orchestra music. Students must have teacher approval.

Theatre Arts/Beginning

53152X0B

Students will develop a basic understanding and knowledge of the origins of theatre, theatre literature/history and theatrical productions.

Theatre Arts Specialization (Beginning) 53612X0B

This is a fifth period offered at WCS Stone Center. See your counselor to schedule. Transportation is required.

Visual Arts/Beginning

54152X0B

An introduction to the basic concepts and styles of art. Students need no previous drawing or artistic talent.

Vocal Music/Intermediate

52312X0I

Students sing all styles of music through singing. Music terminology, vocal techniques and music reading skills are performed at intermediate level. COURSE NOTE: Audition is required.

Band/Intermediate - Fall

52562X0XFI

Students work to develop greater technical skills and study music of differing styles than in Band 1. The fall course focuses on performance of marching band music and skills. Students must have teacher approval. GRADE: 10-12

Band/Intermediate - Spring

52562X0XSI

Students work to develop greater technical skills and study music of differing styles than in Band 1. The spring course teaches concert/orchestra music. Students must have teacher approval. GRADE: 10-12

Theatre Arts/Intermediate 53162X0I

Students will develop performance techniques, write, develop and understand plot structure. Students will begin training in improvisation, makeup, lighting, sound and props. GRADE: 10-12
PREREQUISITE: Theatre Arts/Beginning

Theatre Arts Specialization (Intermediate) 53622X0I

This is a fifth period offered at WCS Stone Center. See your counselor to schedule. Transportation is required. GRADE: 10-12

Visual Arts /Intermediate 54162X0I

Students will continue to study artistic concepts in several media while improving individual ability. GRADE: 10-12. PREREQUISITE: Visual Arts/Beginning

Vocal Music Proficient/Honors 52325X0P

Students may enroll by audition only. Students will study and perform a varied repertoire of advanced music. Music terminology, vocal technique and music reading skills are performed at a proficient level. Check with your choral director as some require a two semester commitment. Honors level students (11th & 12th) will engage in more advanced music studies and are required to complete projects, attend auditions, and perform solos. GRADE: 10-12. COURSE NOTE: Audition Required.

Band Proficient/Honors - Fall 52575X0XFP

Students work to develop greater technical skills and study music of differing styles at a higher level than in Band 3. Honors level students will engage in more advanced music studies and may complete various projects in performance, composition, music history, and music theory. Student must have teacher approval. GRADE: 10-12

Band Proficient/Honors - Spring 52575X0XSP

The spring course focuses on performance of concert music. Honors level students will engage in more advanced music studies and may complete various projects in performance, composition, music history, and music theory. Student must have teacher approval. GRADE: 10-12

Theatre Arts/Proficient-Honors 53175X0P

Students will develop an in-depth understanding of performance techniques, scene writing and technical aspects. Students will begin training in state management and directing. GRADE: 11-12. PREREQUISITE: Theatre Arts/Intermediate

Theatre Arts Specialization (Proficient) Honors 53635X0P

This is a fifth period offered at WCS Stone Center. See your counselor to schedule. Transportation is required. GRADE: 11-12

Visual Arts Proficient/Honors 54175X0P

More advanced techniques and qualities in art will be pursued. GRADE: 11-12

PREREQUISITE: 54162X0I - Visual Arts /Intermediate

Vocal Music Advanced/Honors 52335X0A

Students may enroll by audition only. Students will study and perform a varied repertoire of advanced music. Music terminology, vocal technique, and music reading skills are performed at an advanced level. Honors level (12th) students will complete projects, attend auditions, perform solos, compose music, and conduct a rehearsal.

GRADE: 10-12 COURSE NOTE: Audition required.

Band Advanced/Honors - Fall 52585X0XFA

Senior students work to develop greater technical skills and study music of differing styles than in Band 3. The fall course focuses on performance of marching band music and skills. Students must have teacher approval. GRADE: 12

Band Advanced/Honors - Spring 52585X0XSA

Senior students work to develop greater technical skills and study music of differing styles. The spring course teaches concert/orchestra music. Honors level students will engage in more advanced band studies. Students must have teacher approval.

GRADE: 12

Theatre Arts/Advanced Honors 53185X0A

Students complete their broad based study of theatre arts: stage management, directing, performance, technical theatre and play writing. GRADE: 12

PREREQUISITE: Theatre Arts/Proficient-Honors

Theatre Arts Specialization (Advanced) Honors 53645X0

This is a fifth period offered at WCS Stone Center. See your counselor to schedule. Transportation is required. GRADE: 12

Visual Arts Advanced/Honors 54185X0A

This is the most advanced study of medium, composition, and technique. GRADE: 12

AP Studio Art - Drawing 5A047X0X

The AP Studio Art Drawing portfolio addresses issues such as line quality, light and shade, rendering of form, composition, surface manipulation, the illusion of depth, and mark-making. Students' portfolios demonstrate skills and ideas developed, refined, and applied throughout the course to produce visual compositions. Portfolios are evaluated based on standardized scoring descriptors aligned with skills and understanding developed in college foundation courses.

CREDIT: 1 TYPE: Advanced Placement GRADE: 11-12

Healthful Living Education

Health-Physical Education

60492X0X

Required of all freshmen. Includes assessment of health status, relationship of health to a quality life, an awareness of self-control in stress management, accepting responsibility for prevention of health risks, demonstration of conflict resolution skills, understanding concepts of fitness and lifetime wellness, accepting responsibility for personal fitness and control behaviors in physical activity settings.

Physical Conditioning 1

60292X01

The science of body building, physical fitness & weightlifting. Students progress at individualized growth rates. PREREQUISITE: 60492X0- Health-Physical Education

Physical Conditioning 2

60292X02

Advanced course in body building, physical fitness & weightlifting. Individualized growth pace. PREREQUISITE: 60292X01- Physical Cond 1

Physical Conditioning 3

60292X03

More advanced individualized program of body conditioning & weightlifting. PREREQUISITE: 60292X02- Physical Cond 2

Physical Conditioning 4

60292X04

More advanced individualized program of body conditioning & weightlifting. GRADE: 11-12. PREREQUISITE: 60292X03- Physical Cond 3

Physical Cond 5

60292X05

Highly individualized program of body conditioning & weightlifting. GRADE: 11-12. PREREQUISITE: 60292X04- Physical Cond 4

Personal Fitness & Nutrition

60292X0X02

Individualized physical fitness & weight management program. This course is highly specialized and offered at select schools. GRADE: 10-12. COURSE NOTE: Needs teacher signature.

Adv PE-Field Maintenance

60292X0X03

Teaches care of athletic complex. Set-up/break-down of athletic facilities, cleaning, and maintenance as related to athletic events. GRADE: 10-12. PREREQUISITE: 60492X0- Health-Physical Education and Teacher Approval required

Mathematics Education

Foundations of Math 1 **20902X0X**

This course will emphasize skills needed for the successful completion of Common Core Math 1. It will offer a review of computational skills, number theory, basic geometry, measurement, problem solving, graphs and other selected topics. Students taking this course must also take NC Math 1.

Foundations of Math 1/Inclusion **20902X00X**

This course will emphasize skills needed for the successful completion of NC Math 1. It will offer a review of computational skills, number theory, basic geometry, measurement, problem solving, graphs and other selected topics.

NC Math 1/Inclusion **21092X00X**

Math 1 provides students the opportunity to study concepts of algebra, geometry, functions, number and operations, statistics and modeling (implemented throughout). These concepts include expressions in the real number system, creating and reasoning with equations and inequalities, interpreting and building simple functions, expressing geometric properties and interpreting categorical and quantitative data.

NC Math 1 **21092X0X**

Math 1 provides students the opportunity to study concepts of algebra, geometry, functions, number and operations, statistics and modeling (implemented throughout). These concepts include expressions in the real number system, creating and reasoning with equations and inequalities, interpreting and building simple functions, expressing geometric properties and interpreting categorical and quantitative data.

NC Math 1/Honors **21095X0X**

Math 1 provides students the opportunity to study concepts of algebra, geometry, functions, number and operations, statistics and modeling (implemented throughout). These concepts include expressions in the real number system, creating and reasoning with equations and inequalities, interpreting and building simple functions, expressing geometric properties and interpreting categorical and quantitative data. This is an honors course that requires rigorous study and advanced work.

NC Math 2/Inclusion **22092X00X**

Math 2 continues a progression of the standards established in Math 1. In addition to these standards, Math 2 includes: polynomials, congruence and similarity of figures, trigonometry with triangles, modeling with geometry, probability, making inferences and justifying conclusions. PREREQUISITE: NC Math 1/Inclusion or NC Math 1

NC Math 2 **22092X0X**

Math 2 continues a progression of the standards established in Math 1. In addition to these standards, Math 2 includes: polynomials, congruence and similarity of figures,

trigonometry with triangles, modeling with geometry, probability, making inferences and justifying conclusions. PREREQUISITE: NC Math 1

NC Math 2/Honors **22095X0X**

Math 2 continues a progression of the standards established in Math 1. In addition to these standards, Math 2 includes: polynomials, congruence and similarity of figures, trigonometry with triangles, modeling with geometry, probability, making inferences and justifying conclusions. PREREQUISITE: NC Math 1

NC Math 3/Inclusion **23092X00X**

Math 3 progresses from the standards learned in Math 2 and Math 1. In addition to these standards, Math 3 extends to include algebraic concepts such as: the complex number system, inverse functions, trigonometric functions and the unit circle. Conics and circles are the geometric concepts in Math 3. PREREQUISITE: NC Math 2

NC Math 3 **23092X0X**

Math 3 progresses from the standards learned in Math 2 and Math 1. In addition to these standards, Math 3 extends to include algebraic concepts such as: the complex number system, inverse functions, trigonometric functions and the unit circle. Conics and circles are the geometric concepts in Math 3. PREREQUISITE: NC Math 2

NC Math 3/Honors **23095X0X**

Math 3 progresses from the standards learned in Math 2 and Math 1. In addition to these standards, Math 3 extends to include algebraic concepts such as: the complex number system, inverse functions, trigonometric functions and the unit circle. Conics and circles are the geometric concepts in Math 3. PREREQUISITE: NC Math 2

Advanced Functions & Modeling **24002X0X**

Modeling and applying of functions are central to this curriculum. Applications used will be from relevant societal based areas. Technology & hands-on methods will be emphasized.

PREREQUISITE: NC Math 3

Discrete Math **24012X0X**

Introduces mathematics of networks, social choice and decision making. Extends students' applications of matrix arithmetic & probability. Applications, modeling & technology integration are frequently used. PREREQUISITE: NC Math 3

Pre-Calculus/Honors **24035X0X**

An honors level study of trigonometry, advanced functions, analytic geometry & data analysis. Technological & hands-on experiences are common. Honors weight.

PREREQUISITE: NC Math 3 Honors

Occupational Course of Study

OCS - English 1

9210BX0

Instruction focuses on literature and informational text. Students will utilize writing and language skills to create informative, narrative, argumentative, and explanatory texts. Students will also develop skills in the areas of speaking and listening as they participate in collaborative activities integrating technology and digital media. (This course is available through collaboration with NC Virtual Public Schools)

OCS - Occupational Prep 1

9240BX0

Occupational Course of Study students enrolled in this class participate in job shadowing activities and job factories (P.A.E.S lab)

OCS - Intro to Mathematics 1

9220BX0

This course will focus on understanding rational numbers and applying mathematical operations. Students will apply concepts of geometric relationships, measurement, algebraic properties, and interpretation of data to perform calculations and problem solve.

OCS - Financial Management

9222BX0

This course is designed to teach students the basics of personal financial management and planning. Students will explore appropriate financial skills necessary for independent living. Topics include: checking and savings accounts, taxes, calculation of wages, the use of credit, types of insurance and applied calculation skills to aid in consumer spending.

OCS - Applied Science

9231BX0

This course is a study of energy, electricity and magnetism, the properties of matter, and the identification of common chemicals. Students will also study the interactions of humans with their environment and the major systems of the human body. (This class is available through collaboration with NC Virtual Public Schools)

OCS – American History 1

9247BX0

This course is designed to provide the student with the basic economic, government, and political knowledge they need to become responsible citizens and consumers. It covers the historical background of the development of the United States, including the Constitution and amendments, the three branches of government, and major laws that effect citizens. The course also covers state and local government roles and jurisdictions, and issues of personal citizenship.

OCS - English 2

9211BX0

Instruction focuses on literature and informational text. Students will utilize writing and language skills to create informative, narrative, argumentative, and explanatory texts. Students will also develop skills in the areas of speaking and listening as they

Science Education

Earth & Environmental/Inclusion 35012X00X

A scientific study of the origin, history and structure of the earth & environmental issues. All levels use inquiry based learning.

Earth & Environmental Science 35012X0X

A scientific study of the origin, history and structure of the earth & environmental issues. All levels use inquiry based learning.

Earth & Environmental/Honors 35015X0X

A scientific study of the origin, history and structure of the earth & environmental issues. The honors level is a rigorous curriculum designed for motivated students. All levels use inquiry based learning.

Physical Science/Inclusion 34102X00X

An introductory course in the study of matter, energy, magnetism and chemistry.
PREREQUISITE: Earth & Environmental

Physical Science 34102X0X

An introductory course in the study of force, work, energy, magnetism and chemistry.
PREREQUISITE: Earth & Environmental

AP Environmental Science 3A027X0XW

The AP Environmental Science course is the equivalent of a one-semester, introductory college course in environmental science, through which students engage with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world. The course requires that students identify and analyze natural and human-made environmental problems, evaluate the relative risks associated with these problems, and examine alternative solutions for resolving or preventing them. Environmental science is interdisciplinary, embracing topics from geology, biology, environmental studies, environmental science, chemistry, and geography. PREREQUISITE: Pre-requisite: 35012X0X - Earth/Environmental Science

Biology/Inclusion 33202X00X

This course is a study of the chemical and physical basics of life.
PREREQUISITE: Physical Science and/or Earth/Environmental Science

Biology 33202X0X

This course is a study of the chemical and physical basics of life.
PREREQUISITE: Physical Science and/or Earth/Environmental Science

Biology/Honors 33205X0X

This course is a study of the chemical and physical basics of life. The honors level requires students to be highly motivated, interested in science & committed to in-depth

studies in biological concepts. PREREQUISITE: Physical Science and/or Earth/Environmental Science

Chemistry

34202X0X

Study of chemical elements, their properties and their relationships.
PREREQUISITE (or Co-requisite): NC Math III

Chemistry/Honors

34205X0X

Study of chemical elements, their properties and their relationships. Advanced science credit received. Honors level will be more in-depth, a faster pace and require a higher level of critical thought. PREREQUISITE (or Co-requisite): NC Math III

Physics Honors

34305X0

Honors Physics is an appropriate course for students with a strong mathematics and science background. Success in Honors Physics will require the student to: 1) operate with algebraic expressions to solve complex equations which include trigonometric functions, 2) use exponents to solve problems, and 3) describe graphically, algebraically and verbally real-world phenomena as functions and identify independent and dependent variables. High school physical science is NOT a required prerequisite for this course. The Physics End-of-Course test is required to receive honors physics credit. PREREQUISITE: Biology

Social Studies Education

World History

43032X0X

This course is a survey course that gives students the opportunity to explore recurring themes of human experience common to civilizations around the globe from ancient to contemporary times. This course satisfies the graduation requirement for World History.

World History/Honors

43035X0X

This course is a survey course that gives students the opportunity to explore recurring themes of human experience common to civilizations around the globe from ancient to contemporary times. This course satisfies the graduation requirement for World History. Honors courses are more complex and are taught at an accelerated pace; honors courses provide more rigorous academic study and require more advanced work.

American History 1: Founding Principles

43042X0X

This course will cover the history of the United States beginning with the European exploration of the New World through the Reconstruction Period. Students will examine the historical and intellectual origins of the United States and learn about political and economic factors that contributed to the development of the United States. Students will study the establishment of political parties, America's westward expansion, the growth of sectional conflict, how that sectional conflict led to the Civil War, and the consequences of the Civil War, including Reconstruction. PREREQUISITE: World History

American History 1: Founding Principles/Honors 43045X0X

This course will cover the history of the United States beginning with the European exploration of the New World through the Reconstruction Period. Students will examine the historical and intellectual origins of the United States and learn about political and economic factors that contributed to the development of the United States. Students will study the establishment of political parties, America's westward expansion, the growth of sectional conflict, how that sectional conflict led to the Civil War, and the consequences of the Civil War, including Reconstruction. Honors courses are more complex and are taught at an accelerated pace; honors courses provide more rigorous academic study and require more advanced work. PREREQUISITE: World History

American History 2

43052X0X

This course will cover the history of the United States from the late nineteenth century through the early 21st century. Students will examine the political, economic, social and cultural development of the United States from the end of the Reconstruction era to the present. Students will develop an understanding of the cause and effect relationship between past and present events, recognize patterns of interaction, and understand the impact of events in the United States in an interconnected world. PREREQUISITE: American History 1: Founding Principles

American History 2/Honors**43055X0X**

This course will cover the history of the United States the late nineteenth century through the early 21st century. Students will examine the political, economic, social and cultural development of the United States from the end of the Reconstruction era to the present. Students will develop an understanding of the cause and effect relationship between past and present events, recognize patterns of interactions, and understand the impact of events on in the United Stated in an interconnected world. Honors courses are more complex and are taught at an accelerated pace; honors courses provide more rigorous academic study and require more advanced work. PREREQUISITE: American History 1: Founding Principles

Current Affairs and Issues**48002X0X**

This course is designed to explore topics that are not necessarily part of the regular curriculum and increase student's ability to analyze and do critical thinking pertaining to the various topics covered in the course. This course will study the world today and discussion of major events; key topics and their histories. The course will use documentaries, film, news media, and on-line resources to explore today's world while making the class a forum of discussions and an open exchange of ideas and opinions.

U.S. History/AP**4A077X0**

This course is designed to cover the events in U.S. History from early colonization to the present. This course satisfies the graduation requirement for U.S. History. Honors courses are more complex and are taught at an accelerated pace; honors courses provide more rigorous academic study and require more advanced work. AP courses are designed to prepare the student for intermediate and advanced level college course in history. AP courses are recommended for college-bound juniors with above average skills in reading and writing. Students in AP courses must take the AP exam to qualify for college credit.

PREREQUISITE: American History 1: Founding Principles/Honors

American History: The Founding Principles, Civics, and Economics 42092X0X

This course provides students with the knowledge of skills to become responsible and effective citizens. This course satisfies the graduation requirement for Civics and Economics.

PREREQUISITE: American History 2 or U.S. History or U.S. History/AP

American History: The Founding Principles, Civics, and Economics/Honors 42095X0X

This course provides students with the knowledge of skills to become responsible and effective citizens. This course satisfies the graduation requirement for Civics and Economics. Honors courses are more complex and are taught at an accelerated pace; honors courses provide more rigorous academic study and require more advanced work.

PREREQUISITE: American History 2 or U.S. History or U.S. History/AP

Student Transition Support Education

Student Success Academy 1 96102X0A

Explores & applies basic success factors of transitioning to high school. Practices include understanding your academic record, getting to know the school, value of attendance, how to get good grades, goal setting, getting involved, making choices, how to handle stress, using available services, planning & preparing for the future. Daily assistance with homework & pending issues is provided. Students dialogue with one another about high school experiences. Focuses on relationships & relevance within the school environment. PREREQUISITE: Referral required. GRADE: 9

Student Success Academy 2 96102X0B

A continuation of monitoring & practicing success factors taught in Academy 1. Career exploration is provided with on and off-campus experiences. A four year curriculum plan is established to provide a clear vision for academic success. Goal planning & relevance are realized through dialogue & a broader view of success in high school. Emphasis on social, emotional & team-building skills is present. Students gain an appreciation for providing service to others. PREREQUISITE: Referral required. GRADE: 9

ESL-1 Beginning Level Fall 10382X01F

Designed for students with limited English proficiency at the beginning stages of learning English. Focuses on how to communicate in social settings & survival English. A special emphasis on oral skills and beginning to read & write in English. COURSE NOTE: Prerequisite: IPT Testing

ESL-1 Beginning Level Spring 10382X01S

Designed for students with limited English proficiency at the beginning stages of learning English. Focuses on how to communicate in social settings & survival English. A special emphasis on oral skills and beginning to read & write in English. COURSE NOTE: Prerequisite: IPT Testing

ESL-2 Intermediate Level (Fall) 10382X02F

Designed for students with limited English proficiency having basic oral skills but need a deeper understanding of English grammar/syntax. Emphasis on skill building in reading & writing in the academic setting. Attention is given to cultural norms & expectations. COURSE NOTE: Prerequisite: IPT Testing

ESL-2 Intermediate Level (Spring) 10382X02S

Designed for students with limited English proficiency having basic oral skills but need a deeper understanding of English grammar/syntax. Emphasis on skill building in reading & writing in the academic setting. Attention is given to cultural norms & expectations. COURSE NOTE: Prerequisite: IPT Testing

ESL-3 Advanced-1 (Fall) 10382X03F

Designed for students at the transitional level of their English language development. Emphasis on perfecting reading & writing skills needed for academic settings and multicultural literature

COURSE NOTE: Prerequisite: IPT Testing

ESL-3 Advanced-1 (Spring) 10382X03S

Designed for students at the transitional level of their English language development. Emphasis on perfecting reading & writing skills needed for academic settings and multicultural literature

COURSE NOTE: Prerequisite: IPT Testing

ESL-4 Advanced-2 (Fall) 10382X04F

Designed for students at the transitional level of their English language development. Emphasis on perfecting reading & writing skills needed for academic settings and multicultural literature

COURSE NOTE: Prerequisite: IPT Testing

ESL-4 Advanced-2 (Spring) 10382X04S

Designed for students at the transitional level of their English language development. Emphasis on perfecting reading & writing skills needed for academic settings and multicultural literature

COURSE NOTE: Prerequisite: IPT Testing

Academic Support 96102X0X

Designed for students who experience maximum success when curricular materials are divided into reasonable sections and who benefit from regular review and practice. Students must be eligible for services under P.L. 94-142, have a current Individualized Education Plan and an appropriate referral.

COURSE NOTE: Prerequisite: Referral required.

World Language Education

French 1 **11012X0X**

This course is a beginning course in the study of French language and culture. The student learns basic sounds, grammatical structure and vocabulary

French 2 **11022X0X**

A continuation of French 1. Students become more proficient in the areas of language and more knowledgeable about French life-styles

PREREQUISITE: 11012X0X - French 1

Spanish 1 **11412X0X**

A beginning course in the study of Spanish language and culture. The student learns basic sounds, grammatical structure and vocabulary

Spanish 2 **11422X0X**

A continuation of Spanish 1. Students continue to refine their conversational and grammatical skills and become more knowledgeable about Spanish life-styles

PREREQUISITE: 11412X0X - Spanish 1

Latin 1 **12412X0X**

A beginning course where students learn the language of the Ancient Romans through the study and use of Latin vocabulary and grammar. Students also experience the past through a study of the culture and mythology of the Roman Empire.

Latin 2 **12422X0X**

Students continue to increase their Latin vocabulary and grammatical skills and pursue further cultural topics and historical events of Ancient Rome.

PREREQUISITE: 12412X0X - Latin 1

Spanish 3/Honors **11435X0X**

A continuation of Spanish 2. Students study the literature and culture of Spanish-speaking nations. This course receives Honors weight

GRADE: 10-12. PREREQUISITE: 11422X0X - Spanish 2

Spanish 4/Honors **11445X0X**

A continuation of Spanish 3 with advanced studies in literature, composition and culture. This course receives Honors weight.

GRADE: 10-12. PREREQUISITE: 11435X0X - Spanish 3/Honors



WCS Virtual Academy

Guidelines for Enrollment

Online courses can provide an opportunity for flexibility and convenience to earn high school credits in an online environment. The online student must take responsibility for his or her own learning. In any distance education program, the capacity for self-directed learning is crucial. While teachers can provide some support, the online distance learner is expected to have an internal motivation to manage his or her own learning during the course of study and have a basic grasp of Internet navigation skills.

WCS Virtual Academy provides opportunities for students who would like to enrich or supplement their educational program. It also provides options for students to complete coursework early, participate in other academic opportunities and gain experience in an online educational environment. The flexibility of this program provides options for students who may need a more flexible school model including home school students who would like to take some high school courses.

Careful consideration by counselors and administrators should occur to determine if online coursework is truly in the best interest of the student before enrolling them. There should also be a demonstrated need for flexibility in schedules before placement in WCS Virtual Academy. The need for flexibility could include:

- students are taking college courses that make it difficult to participate in the face-to face classes that they need to graduate;
- students are behind on credits and are taking online courses to catch up;
- students are planning to graduate early
- students would like to participate in other educational opportunities (band, chorus, etc.) that conflict with course needs;
- students have family needs that require that they have flexibility in scheduling in order to complete courses needed for graduation
- students have medical issues that prevent them from attending classes on high school campuses;
- students who have been long-term suspended and enrollment in online courses will allow us to continue to serve them.

The WCS Virtual Academy was created to meet the needs of primarily 11th and 12th graders. Students in the 9th and 10th grade should not be enrolled in WCS Virtual Academy unless there is a demonstrated need.

After the 10 day drop-add period each semester, counselors should contact Donna Cotton, before placing students in a WCS Virtual Academy online course. Students should be enrolled in a face-to face class if it is offered at the same time in their schedule as an online class would be taken.

WCS Virtual Academy Course Offerings

American History: Founding Principles, Civics and Economics Honors

42095X0WVA

This course provides students with the knowledge of skills to become responsible and effective citizens. This course satisfies the graduation requirement for Civics and Economics. Honors courses are more complex and are taught at an accelerated pace; honors courses provide more rigorous academic study and require more advanced work. PREREQUISITE: American History 2 or U.S. History or U.S. History/AP

AP English Language & Composition **1A017X0WVA**

This college-level course provides an analytical and historical study of language and rhetoric in a comprehensive program of reading, writing, and critical thinking. As preparation to take the Advanced Placement Test in Language and Composition, students read, discuss, analyze, and write about challenging works of recognized textual merit to develop honest, concise, and effective use of language and the ability to organize ideas in a clear, coherent, and persuasive way. Independent rhetorical analysis and a total mastery of writing skills are goals of the course. Because this course meets the needs of academically gifted or highly motivated advanced students who hope to bypass introductory courses in composition and literature when they enter college, students in an AP course should expect assignments and instruction paced at the college level. Students are expected to take the English III AP Language and Composition Examination. The student may earn college credit for successful completion of the course and AP examination.

OTHER REQUIREMENTS: Counselor approval required.

AP English Literature & Composition **1A007X0WVA**

This college-level course provides an analytical and historical study of British and world literature in a comprehensive program of reading, writing, and critical thinking. As preparation to take the Advanced Placement Test in Literature and Composition, students read, discuss, analyze, and write about challenging works of recognized literary merit to develop honest, concise, and effective use of language and the ability to organize ideas in a clear, coherent, and persuasive way. Independent literary analysis and a total mastery of writing skills are goals of the course. Because this course meets the needs of academically gifted or highly motivated advanced students who hope to bypass introductory courses in composition and literature when they enter college, students in an AP course should expect assignments and instruction paced at the college level. Students are expected to take the English IV AP Literature and Composition Examination. The student may earn college credit for successful completion of the course and AP examination.

OTHER REQUIREMENTS: Counselor approval required.

American History I Honors **43045X0WVA**

This course will cover the history of the United States beginning with the European exploration of the New World through the Reconstruction Period. Students will examine the historical and intellectual origins of the United States and learn about political and economic factors that contributed to the development of the United States. Students will

study the establishment of political parties, America's westward expansion, the growth of sectional conflict, how that sectional conflict led to the Civil War, and the consequences of the Civil War, including Reconstruction.

PREREQUISITE: World History

American History II Honors

43055X0WVA

This course will cover the history of the United States the late nineteenth century through the early 21st century. Students will examine the political, economic, social and cultural development of the United States from the end of the Reconstruction era to the present. Students will develop an understanding of the cause and effect relationship between past and present events, recognize patterns of interactions, and understand the impact of events on in the United Stated in an interconnected world. Honors courses are more complex and are taught at an accelerated pace; honors courses provide more rigorous academic study and require more advanced work.

PREREQUISITE: American History 1: Founding Principles

English III Honors

10235X0WVA

Instruction focuses on examination of themes in American literature. Honors classes require students use critical analysis of texts through reading, writing, speaking, listening and using media. Specific classes are designed for students who meet state guidelines for exceptional children. AP Language and Composition is an Advanced Placement introductory college course which may be paired with English 3 Honors and is a year-long course.

PREREQUISITE: English II

English IV Honors

10235X0WVA

Instruction focuses on examination of themes in British Literature. Honors classes will explore the literature more widely and deeply, including more complex texts. Specific classes are designed for students who meet state guidelines for exceptional children. Courses are semester long. AP Literature and Composition is an Advanced Placement introductory college course which may be paired with English 4 Honors.

PREREQUISITE: English III

Spanish III

11435X0WVA

A continuation of Spanish 2. Students study the literature and culture of Spanish-speaking nations. This course receives Honors weight. GRADE: 10-12.

PREREQUISITE: Spanish 2 or Latin 2

Spanish IV

11445X0WVA

A continuation of Spanish 3 with advanced studies in literature, composition and culture. This course receives Honors weight. GRADE: 10-12. PREREQUISITE: Spanish 3/Honors

2019 – 2020 High School Courses in CTE Programs of Study

Agriculture

Agriculture Mechanics 1 & 2

Animal Science 1 & 2

Horticulture 1

Architecture & Construction

Core & Sustainable Construction

Carpentry 1, 2, & 3

Interior Design 1

Arts & A/A Technology

Apparel & Textile Production 1

Business:

MS Word, PowerPoint, Publisher

MS Excel & Access

Entrepreneurship 1

Finance

Personal Finance

Principles of Business and Finance

Health Science

Health Team Relations

Health Science 1 & 2

Biomedical Technology

Advance Studies (Sports Medicine)

Nursing Fundamentals

Hospitality and Tourism

Foods 1 & 2

Human Services:

Parenting & Child Development

Principles of Family & Human Services

Information Technology

Python Programming 1 & 2

Adobe Digital Design

Adobe Visual Design

AP Computer Science Principles

Technology Education

Technology, Engineering & Design

Robotics 1 & 2

Engineering Design

**Career Management
(Offered in each pathway)

CTE Course Descriptions

Animal Science 1 AA212X0X

This course focuses on the basic scientific principles and processes that are involved in animal physiology, breeding, nutrition, and care in preparation for an animal science career major. Topics include animal diseases, introduction to animal science, animal nutrition, animal science issues, career opportunities, and animal evaluation. Biology, chemistry, and algebra are reinforced.

Prerequisite: Recommended Agriscience Applications

Animal Science 2 AA222X0X

This course includes more advanced scientific principles and communication skills and includes animal waste management, animal science economics, decision making, global concerns in the industry, genetics, and breeding. English language arts, mathematics, and science are reinforced in this class. 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. GRADE: 10-12

PREREQUISITE: Animal Science 1

Adobe Visual Design I1312X0XW

This course is a project-based course that develops ICT, career, and communication skills in print and graphic design using Adobe tools. This course is aligned to Adobe Photoshop, Indesign, and Illustrator certification. English language arts are reinforced. Work-based learning. GRADE: 10-12

Adobe Digital Design I1322X0X

Digital Design is a project-based curriculum that develops key digital communication skills such as design, project management, research and communication, and web planning, design and development technical skills using Adobe tools. Work-based learning. GRADE: 10-12

Agricultural Mechanics 1 AS312X0X

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, basic metal working, basic agricultural construction skills related to plumbing, concrete, carpentry, basic welding, and leadership development. English language arts, mathematics, and science are reinforced. Work-based learning strategies appropriate for this course include 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.

Prerequisite: Recommended Agriscience Applications

Agricultural Mechanics 2 AS312X0X

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, basic metal working, basic agricultural construction skills related to plumbing, concrete, carpentry, basic welding, and leadership development. English language arts, mathematics, and science are reinforced. Work-based learning strategies appropriate for this course include 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. GRADE: 10-12

Agricultural Mechanics 2 - Honors AS325X0X

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, and advanced career exploration/decision making. 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. GRADE: 10-12

AP Computer Science Principles 0A027X0X

AP Computer Science Principles offers a multidisciplinary approach to teaching the underlying principles of computation. The course will introduce students to the creative aspects of programming, abstractions, algorithms, large data sets, the Internet, cybersecurity concerns, and computing impacts. AP Computer Science Principles also gives students the opportunity to use current technologies to create computational artifacts for both self-expression and problem solving. Together, these aspects of the course make up a rigorous and rich curriculum that aims to broaden participation in computer science. GRADE: 11-12

PREREQUISITE: Must have completed Math I

Apparel and Textile Production 1 FA312X0X

In this course students are introduced to clothing production in the areas of preparation for clothing construction, basic clothing construction techniques, consumer decisions, textiles, historical perspectives and design, and career opportunities. Emphasis is placed on students applying these construction and design skills to apparel and home fashion. Art, mathematics, and science are reinforced. Work-based learning strategies appropriate for this course include service learning and job shadowing. Apprenticeship and Cooperative education 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. GRADE: 10-12

*For safety reasons, enrollment is not to exceed 20 in this course.

Biomedical Technology 1 HB112X0X

This course challenges students to investigate current medical and health care practices using technology and advances in health care research. Topics include ethics, forensic medicine, infectious diseases, organ transplants, cell biology and cancer, and biomedical research. 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.

COURSE NOTE: Recommended pre-requisite: Health Team Relations

GRADE: 10-12

Career Management CC452X0X

This course prepares students to locate, secure, keep, and change careers. Emphasis is placed on self-assessment of characteristics, interests, and values; education and career exploration; evaluation of career information and creation of a career plan. Based on the National Career Development Guidelines, skills learned in this course include, but are not limited to communications, interpersonal skills, problem solving, personal management and teamwork. English language arts are reinforced. Work-based learning strategies appropriate for this course include business/industry field trips, internships, job shadowing, and service learning. Student participation in Career and Technical Student Organization, (CTSO) competitive events, community service, and leadership activities provide the opportunity to apply essential standards and workplace readiness skills through authentic experiences.

Carpentry I IC212X0XC

This course teaches the development of advanced knowledge and skills in the furniture and cabinetmaking industry. Further emphasis is placed on construction principles applied to mass production and the construction and installation of cabinet drawers and doors. English language arts and mathematics are reinforced. Work-based learning strategies appropriate for this course include apprenticeship, cooperative education, internship, and job shadowing. SkillsUSA competitive events, community service, and

leadership activities provide the opportunity to apply essential standards and workplace readiness skills through authentic experiences. Geometry is recommended as preparation for this course.

*Due to potentially hazardous processes and equipment a maximum enrollment of 20 is recommended.

Carpentry 2 **IC222X0X**

This course covers additional technical aspects of carpentry with emphasis on development of intermediate skills. The course content includes floor systems, wall and ceiling framing, roof framing, introductions to concrete, reinforcing materials and forms, windows and exterior doors, and basic stair layout. English language arts and mathematics are reinforced. Work-based learning strategies appropriate for this course include apprenticeship, cooperative education, internship, and job shadowing. This course helps prepare students for National Center for Construction Education and Research (NCCER) certification. SkillsUSA competitive events, community service, and leadership activities provide the opportunity to apply essential standards and workplace readiness skills through authentic experiences. Geometry is recommended as preparation for this course. GRADE: 10-12. PREREQUISITE: Carpentry 1

*Due to potentially hazardous processes and equipment a maximum enrollment of 20 is recommended.

Core & Sustainable Construction **IC002X0X**

This course covers the National Center for Construction Education and Research (NCCER) Core certification modules required for all of the NCCER curriculum-area programs, and an additional Green module. The course content includes: basic safety, introduction to construction math, introduction to hand tools, introduction to power tools, introduction to blueprints, material handling, basic communication skills, and basic employability skills, and “Your Role in the Green Environment”. The additional Green module has been added to provide students with instruction in the green environment, green construction practices, and green building rating systems. Also it will help students better understand their personal impacts on the environment and make them more aware of how to reduce their carbon footprint. English Language Arts and Mathematics are reinforced. Work-based learning strategies appropriate for this course include apprenticeship, cooperative education, internship, and job shadowing. This course helps prepare students for additional National Center for Construction Education and Research (NCCER) Core certification. SkillsUSA competitive events, community service, and leadership activities provide the opportunity to apply essential standards and workplace readiness skills through authentic experiences. Geometry is recommended as preparation for this course.

*Due to potentially hazardous processes and equipment a maximum enrollment of 20 is recommended.

CTE Advanced Studies - Sports Medicine & Fitness **CS952X0XSM**

Sports medicine is a branch of medicine that deals with physical fitness and the treatment and prevention of injuries related to sports and exercise. This class is designed to introduce the student to the field of sports medicine and is an excellent

choice for the student who is interested in pursuing a career in physical therapy, athletic training, nursing, or sports medicine. First aid, CPR, anatomy, kinesiology of the muscle, and treatment of muscle injury will be explored. Projects, teamwork, and demonstrations serve as instructional strategies that reinforce the curriculum content. COURSE NOTE: Teacher approval required. Health Science 1 & Health Science 2 are recommended prerequisite courses. GRADE: 11-12

CTE Internship

CTE Internships are available to students who have completed two courses in a CTE 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.

See the Career Development Coordinator/School Counselor for information on how to apply for a CTE Internship (CS972X0X) or CTE Honors Internship (CS975X0X).

Engineering Design TE132X0X

This course continues to apply the skills, concepts, and principles of engineering. Students explore various technological systems and engineering processes in related career fields. Topics include investigating technological system, design optimization, and problem solving. Students utilize CAD and physical and virtual modeling concepts to construct, test, collect, and report data. Art, English language arts, mathematics and science are reinforced. Work-based learning strategies appropriate for this course include mentorship, school-based enterprise, service learning, and job shadowing. Cooperative education is not available for this course. Apprenticeship is not available for this course. Technology Student Association (TSA) competitive events, community service, and leadership activities provide the opportunity to apply essential standards and workplace readiness skills through authentic experiences.

*Due to potentially hazardous processes and equipment a maximum enrollment of 20 is recommended.

Foods 1 FN412X0X

This course examines the nutritional needs of the individual. Emphasis is placed on the relationship of diet to health, kitchen and meal management, food preparation and sustainability for a global society, and time and resource management. Skills in science, reading, and mathematics literacy are reinforced in this course. Work-based learning strategies appropriate for this course include field trips, job shadowing, and service learning. FCCLA leadership activities provide the opportunity to apply instructional competencies and workplace readiness skills to authentic experiences.

COURSE NOTE: *For safety and sanitation reasons, enrollment should not exceed 20 in this course.

Foods 2- Enterprise FN422X0X

This course focuses on advanced food preparation techniques while applying nutrition, food science, and test kitchen concepts using new technology. Food safety and sanitation receive special emphasis, with students taking the exam for a nationally recognized food safety credential. Students develop skills in preparing foods such as beverages, salads and dressing, yeast breads, and cake fillings and frostings. A real or simulated in-school food business component allows students to apply instructional strategies. English language arts, mathematics, and science are reinforced. Work-based learning strategies appropriate for this course include apprenticeship, cooperative education, entrepreneurship, internship, mentorship, school-based enterprise, service learning and job shadowing. 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. GRADE: 10-12
PREREQUISITE: Foods 1 or Culinary Arts and Hospitality 1

Health Science 1 HU402X0X

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. COURSE NOTE: Health Team Relations is a strongly recommended prerequisite course for Health Science I. GRADE: 10-12

Health Science 2 HU422X0X

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. GRADE: 10-12
PREREQUISITE: HU402X0X - Health Science 1

Health Science 2 - Honors HU425X0X

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. GRADE: 11-12

PREREQUISITE: Health Science 1

*Class enrollment limited to 20 to establish a foundation of knowledge critical to the application of patient care skills.

Health Team Relations HU102X0X

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. English language arts are reinforced. Work-based learning strategies appropriate for this course include service learning, field trips, and job shadowing. Apprenticeship and cooperative education are not available for this course. English language arts and social studies are reinforced in 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 to authentic experiences.

Horticulture 1 AP412X0X

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.

PREREQUISITE: Agricultural Mechanics 1

Interior Design 1 FI512X0X

This course focuses on housing needs and options of individuals and families at various stages of the life cycle. Emphasis is placed on selecting goods and services and creating functional, pleasing living environments using sound financial decisions and principles of design. Topics of study include elements and principles of design, backgrounds and furnishings, architectural styles and features, and functional room design. Art and mathematics are reinforced. Work-based learning strategies appropriate for this course include cooperative education, entrepreneurship, internship, mentorship,

school-based enterprise, service learning, and job shadowing. Apprenticeship is not available for this course. Family, Career 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. GRADE: 10-12

Microsoft Excel and Access BM202X0X

Students in Microsoft IT Academies benefit from world-class Microsoft curriculum and cutting edge software tools to tackle real-world challenges in the classroom environment. The first part of the class is designed to help you use the newest version of Microsoft Excel interface, commands, and features to present, analyze, and manipulate various types of data. Students will learn to manage workbooks as well as how to manage, manipulate, and format data. In the second part of the class, students will learn how to create and work with a database and its objects by using the new and improved features in newest version of Microsoft Access. Students will learn how to create, modify, and locate information as well as how to create programmable elements and share and distribute database information. Mathematics is reinforced. Work-based learning strategies appropriate for this course include cooperative education, internship, service learning, and job shadowing. Apprenticeship is not available for this course. Future Business Leaders of America (FBLA) competitive events, community service, and leadership activities provide the opportunity to apply essential standards and workplace readiness skills through authentic experiences. This course can help prepare students for the Microsoft Office Specialist (MOS) in Excel and/or Access, <http://www.microsoft.com/learning/en/us/certification/mos.aspx>. GRADE: 10-12
COURSE NOTE: End of course Microsoft Certification Test available via Certiport.

Microsoft Word, PowerPoint, and Publisher BM102X0X

Students in Microsoft IT Academies benefit from world-class Microsoft curriculum and software tools to tackle real-world challenges in the classroom environment. In the first part, students will learn to use the newest version of Microsoft Word interface, commands, and features to create, enhance, customize, share and create complex documents, and publish them. In the second part, students will learn to use the newest version of Microsoft PowerPoint interface, commands, and features to create, enhance, customize, and deliver presentations. In the last part, students will learn to use the basic features of the newest version of Publisher to create, customize, and publish a publication. English language arts are reinforced. Work-based learning strategies appropriate for this course include cooperative education, internship, service learning, and job shadowing. Apprenticeship is not available for this course. Future Business Leaders of America (FBLA) competitive events, community service, and leadership activities provide the opportunity to apply essential standards and workplace readiness skills through authentic experiences. This course can help prepare students for the Microsoft Office Specialist (MOS) in Word and/or PowerPoint, <http://www.microsoft.com/learning/en/us/certification/mos.aspx>.
COURSE NOTE: End of course Microsoft Certification Test available via Certiport.

Nursing Fundamentals - Honors HN435X0X

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. Work-based learning strategies appropriate for this course include a required clinical internship in a long-term care agency. Healthcare agencies may require testing for tuberculosis and/or other diseases and a criminal record check for felonies related to drugs. Cooperative education is not available for this course. HOSA competitive events, community service, and leadership activities provide the opportunity to apply essential standards and workplace readiness skills through authentic experiences. GRADE: 12

*Enrollment is limited per North Carolina Board of Nursing (BON) Administrative Rule 21 NCAC 36.0318(i), which requires the ratio of teacher to nurse aide students be 1:10 or less while in the clinical area. DHSR applies BON Rule to the classroom training area. COURSE NOTE: This course will require an application process if enrollment exceeds 10 students. See Guidance Counselors and/or instructor for an application and details. In addition, students must have transportation available to and from Clinical site(s). Criminal background check and TB testing required by NC State Law. Student responsible for cost of TB test.

PREREQUISITE: Health Science 2

Parenting & Child Development FE602X0X

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. Work-based learning strategies appropriate for this course include service learning and job shadowing. Apprenticeship and cooperative education 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.

Personal Finance BF052X0X

This course prepares students to understand economic activities and challenges of individuals and families, the role of lifestyle goals in education and career choices, procedures in a successful job search, financial forms used in independent living, and shopping options and practices for meeting consumer needs. The course also prepares students to understand consumer rights, responsibilities, and information, protect personal and family resources, and apply procedures for managing personal finances. English language arts and mathematics are reinforced.

Principles of Business and Finance BF102X0X

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. Work-based learning strategies appropriate for this course include mentorship, school-based enterprise, service learning, and job shadowing. Cooperative education is not available for this course. Apprenticeship is not available for this course. DECA (an association for Marketing Education students) and Future Business Leaders of America (FBLA) competitive events, community service, and leadership activities provide the opportunity to apply essential standards and workplace readiness skills through authentic experiences.

Python Programming 1 BP142X0X

This course introduces computer programming using the Python programming language. Emphasis is placed on common algorithms and programming principles utilizing the standard library distributed with Python. Upon completion, students should be able to design, code, test, and debug Python language programs.

Python Programming 2 BP162X0X

This is the next course for learning the Python programming language. Emphasis is placed on common algorithms and programming principles utilizing the standard library distributed with Python. Upon completion, students should be able to design, code, test, and debug Python language programs. PREREQUISITE: Python Programming 1

Robotics 1 TL182X0X

This course focuses on the nature and core concepts of engineering, design, and basic computer programming. Through engaging hands-on learning, students use a team oriented approach to design and build VEX robots while learning to apply the concepts of engineering design and safety, computer programming, mechatronics, and problem solving. Students learn the basics of radio controlled robots to help them understand the relationship between torque, gear ratio and weight.

Robotics 2 TL192X0X

This course is an extension of Robotics 1. The students focus shifts from the nature and core concepts of engineering, design, and basic computer programming to a more advanced level. Students experiment with chains, sprockets, and different types of robotic arms and their uses to familiarize themselves with the automation processes used in most Computer Integrated Manufacturing (CIM) systems. Students use programming software to create multiple autonomous programs that demonstrate their ability to program and control functional locomotive systems.

Prerequisite: Robotics 1

Technology, Engineering and Design TE112X0X

This course focuses on the nature and core concepts of technology, engineering, and design. Through engaging activities and hands-on project-based activities, students are

introduced to the following concepts: elements and principles of design, basic engineering, problem solving, and teaming. Students apply research and development skills and produce physical and virtual models. Activities are structured to integrate physical and social sciences, mathematics, English language arts, and art. Work-based learning strategies appropriate for this course include mentorship, school-based enterprise, service learning, and job shadowing. Apprenticeship and cooperative education are not available for this course. Technology Student Association (TSA) competitive events, community service, and leadership activities provide the opportunity to apply essential standards and workplace readiness skills through authentic experiences.

*Due to potentially hazardous processes and equipment a maximum enrollment of 20 is recommended.

Distance Learning & Computer-Based Courses

Distance learning opportunities are computer based courses designed to provide students with needed courses not offered by their high school, or to resolve a scheduling conflict. Students are encouraged to take courses in a regular classroom setting with a teacher when possible. High self-discipline & an ability to accept highly rigorous standards are required of students taking these courses.

OTHER REQUIREMENTS: Counselor approval required.

NCVPS Courses

99359X0VPS

Students will register for NCVPS courses under this course code. Additional registration paperwork will need to be completed with the guidance counselor for registration to be complete.

Wilkes Community College

Career and College Promise Courses

College Transfer Pathway

Eligible Juniors and Seniors Only

Students must complete the Career & College Promise application process for WCC and have a 2.8 weighted GPA. Students must demonstrate college readiness by placing out of all developmental level college courses through placement testing or approved assessment. A student may only enroll in one college transfer pathway and may not substitute courses in one pathway in another. See your counselor or Jon Hutchens for more details. College Transfer courses have honors weight.

ENG 111 Writing & Inquiry

1C025X0XW

This course is the required first course in a series of two designed to develop the ability to produce clear expository prose. Emphasis is placed on the writing process including audience analysis, topic selection, thesis support and development, editing, and revision. Upon completion, students should be able to produce unified, coherent, well-developed essays using standard written English. Students will use computers in the writing process. Approved for transfer as a general education core course in English Composition.

MUS 110 Music Appreciation

5C045X0XW

This course is a basic survey of the music of the Western world. Emphasis is placed on the elements of music, terminology, composers, form, and style within a historical perspective. Upon completion, students should be able to demonstrate skills in basic listening and understanding of the art of music. Approved for transfer as a Universal General Education Transfer Component course in Humanities/Fine Arts.

HIS 111 World Civilization I

4C035X0XW

This course introduces world history from the dawn of civilization to the early modern era. Topics include Eurasian, African, American, and Greco-Roman civilizations and Christian, Islamic and Byzantine cultures. Upon completion, students should be able to analyze significant political, socioeconomic, and cultural developments in pre-modern world civilizations. Approved for transfer as a Universal General Education Transfer Component course in Social/Behavioral Sciences.

PREREQUISITE: Prerequisite: DRE 097, or ENG 080 and RED 080.

PSY 150 General Psychology

4C085X0XW

This course provides an overview of the scientific study of human behavior. Topics include history, methodology, biopsychology, sensation, perception, learning, motivation, cognition, abnormal behavior, personality theory, social psychology, and other relevant topics. Upon completion, students should be able to demonstrate a basic knowledge of the science of psychology. Approved for transfer as a general education core course in Social/Behavioral Sciences.

MAT 171 Precalculus Algebra**2C035X0XW**

This is the first of two courses designed to emphasize topics which are fundamental to the study of calculus. Emphasis is placed on equations and inequalities, functions (linear, polynomial, rational), systems of equations and inequalities, and parametric equations. Upon completion, students should be able to solve practical problems and use appropriate models for analysis and predictions. Approved for transfer as a general education core course in Mathematics.

MAT 172 Precalculus Trigonometry**2C045X0XW**

This is the second of two courses designed to emphasize topics which are fundamental to the study of calculus. Emphasis is placed on properties and applications of transcendental functions and their graphs, right and oblique triangle trigonometry, conic sections, vectors, and polar coordinates. Upon completion, students should be able to solve practical problems and use appropriate models for analysis and prediction. Approved for transfer as a general education core course in Mathematics.
PREREQUISITE: 2C035X0- MAT 171 Precalculus Algebra - WCC

Technical CCP Pathway Courses (ALL)

Eligible Juniors & Seniors Only

Not all Technical CCP Pathway Courses are offered at all high schools.

Students must complete the Career & College Promise application process for WCC and have a 2.8 weighted GPA or principal approval. Some courses will have specific pre-requisites that must be completed prior to enrollment. See your counselor or Jon Hutchens for more details.

PLEASE NOTE: Some CCP courses are “paired” to give one unit of high school credit (see school CCP schedule for paired courses)

ACM 110 Intro to Animal Care**AW192X0XW**

This course introduces general concepts of animal care and management. Topics include the history of animal care, humane issues, fundamental care, and the future of the animal care industry. Upon completion, students should be able to demonstrate a basic understanding of the issues related to the animal care industry.

AGR 139 Intro to Sustainable Agriculture**WC022X0X02**

This course will provide students with a clear perspective on the principles, history and practices of sustainable agriculture in our local and global communities. Students will be introduced to the economic, environmental and social impacts of agriculture. Upon completion, students will be able to identify the principles of sustainable agriculture as they relate to basic production practices.

ACM 112 Facility Management - Online**WC022X0X11**

This course covers the design and management of an animal care facility. Topics include facility design, observation and reporting, facility maintenance, general operation, sanitation, and management techniques. Upon completion, students should be able to effectively plan for and operate an animal care facility considering sustainable practices.

ANS 110 Animal Science - Online**AW362X0XW**

This course introduces the livestock industry. Topics include nutrition, reproduction, production practices, diseases, meat processing, sustainable livestock production, and marketing. Upon completion, students should be able to demonstrate a basic understanding of livestock production practices and the economic impact of livestock locally, regionally, state-wide, and internationally.

ANS 115 Feeds and Nutrition**WC022X0X04**

This course covers the fundamentals of animal feeding and nutrition. Topics include nutrient requirements, digestion, feed formulation, and classification. Upon completion, students should be able to demonstrate knowledge of nutritional requirements and feeding practices of farm animals.

ANS 116 Intro to Equine Industry**WC022X0X05**

This course provides an introduction to the equine industry. Topics include history, breeds, disciplines, economic impact, and career opportunities within the industry. Upon completion, students should be able to demonstrate a basic understanding of the equine industry and as it relates to animal science, production, and management

ANS 130 Poultry Production**AW392X0W**

This course provides an introduction to the poultry industry. Topics include anatomy and physiology, reproduction, incubation, environmental issues, and husbandry. Upon completion, students should be able to demonstrate a basic understanding of poultry production and the economic and environmental impact of the poultry industry locally, regionally, state-wide, and internationally.

ANS 150 Animal Health Management**AW412X0W**

This course introduces animal diseases and health management. Topics include identification, prevention, management (including integrated pest management), and treatment of diseases. Upon completion, students should be able to recognize disease symptoms, recommend treatments, identify preventive steps, and develop biosecurity procedures.

ARC 112 Construction Materials**WC042X0X01**

This course introduces construction materials and their methodologies. Topics include construction terminology, traditional and alternative materials and their properties, manufacturing processes, construction techniques, and other related topics. Upon completion, students should be able to detail construction assemblies and identify construction materials and properties.

ARC 114 Architectural CAD**WC042X0X02**

This course introduces basic architectural CAD techniques. Topics include basic commands and system hardware and software. Upon completion, students should be able to prepare and plot architectural drawings to scale within accepted architectural standards.

ATR 112 Intro to Automation**TW102X0XW**

This course introduces the basic principles of automated manufacturing and describes the tasks that technicians perform on the job. Topics include the history, development, and current applications of robots and automated systems including their configuration, operation, components, and controls. Upon completion, students should be able to understand the basic concepts of automation and robotic systems.

AUT 116 Engine Repair**IW342X0XW**

This course covers the theory, construction, inspection, diagnosis, and repair of internal combustion engines and related systems. Topics include fundamental operating principles of engines and diagnosis, inspection, adjustment, and repair of automotive engines using appropriate service information. Upon completion, students should be able to perform basic diagnosis, measurement and repair of automotive engines using appropriate tools, equipment, procedures, and service information.

COREQUISITES: If you take this course, you must also take IZ532X0XW – AUT 116A Engine Repair Lab

AUT 116A Engine Repair Lab**IZ532X0XW**

This course is an optional lab to be used as an alternative to Work-Based Learning placement in meeting the NATEF standards for total hours. Topics include diagnosis, inspection, adjustment, and repair of automotive engines using appropriate service information. Upon completion, students should be able to perform basic diagnosis, measurement and repair of automotive engines using appropriate tools, equipment, procedures, and service information.

COREQUISITES: If you take this course, you must also take IW342X0W – AUT 116 Engine Repair

AUT 151 Brake Systems**IW382X0XW**

This course covers principles of operation and types, diagnosis, service, and repair of brake systems. Topics include drum and disc brakes involving hydraulic, vacuum boost, hydra-boost, electrically powered boost, and anti-lock and parking brake systems. Upon completion, students should be able to diagnose, service, and repair various automotive braking systems.

COREQUISITES: If you take this course, you must also take IW392X0XW - *AUT 151A Brake Systems Lab

AUT 151A Brake Systems Lab**IW392X0XW**

This course is an optional lab to be used as an alternative to Co-Op placement in meeting the NATEF standards for total hours. Topics include drum and disc brakes involving hydraulic, vacuum-boost, hydra-boost, electrically powered boost, and anti-

lock, parking brake systems and emerging brake systems technologies. Upon completion, students should be able to diagnose, service, and repair various automotive braking systems.

COREQUISITES: If you take this course, you must also take IW382X0XW - *AUT 151 Brake Systems - WCC

AUT 181 Engine Performance I

IW432X0XW

This course covers the introduction, theory of operation, and basic diagnostic procedures required to restore engine performance to vehicles equipped with complex engine control systems. Topics include an overview of engine operation, ignition components and systems, fuel delivery, injection components and systems and emission control devices. Upon completion, students should be able to describe operation and diagnose/repair basic ignition, fuel and emission related drivability problems using appropriate test equipment/service information.

AUT 181A Engine Performance Lab I

IW442X0XW

This course is an optional lab to be used as an alternative to Work-Based Learning placement in meeting the NATEF standards for total hours. Topics include overviews of engine operation, ignition components and systems, fuel delivery, injection components and systems and emission control devices and emerging engine performance technologies. Upon completion, students should be able to describe operation and diagnose/repair basic ignition, fuel and emission related drivability problems using appropriate test equipment/service information.

COREQUISITES: If you take this course, you must also take IW432X0W - *AUT 181 Engine Performance

BIO 168 Anatomy & Physiology I

3C175X0XW

This course provides a comprehensive study of the anatomy and physiology of the human body. Topics include body organization, homeostasis, cytology, histology, and the integumentary, skeletal, muscular, and nervous systems and special senses. Upon completion, students should be able to demonstrate an in-depth understanding of principles of anatomy and physiology and their interrelationships.

BIO 169 Anatomy & Physiology I

3C185X0XW

This course provides a continuation of the comprehensive study of the anatomy and physiology of the human body. Topics include the endocrine, cardiovascular, lymphatic, respiratory, digestive, urinary, and reproductive systems as well as metabolism, nutrition, acid-base balance, and fluid and electrolyte balance. Upon completion, students should be able to demonstrate an in-depth understanding of principles of anatomy and physiology and their interrelationships.

BPR 130 Print Reading Construction

WC042X0X04

This course covers the interpretation of blueprints and specifications that are associated with construction projects. Topics include interpretation of documents for foundations, floor plans, elevations, and related topics. Upon completion, students should be able to read and interpret construction prints and documentation.

BUS 110 Introduction to Business**BW145X0XW**

This course provides a survey of the business world. Topics include the basic principles and practices of contemporary business. Upon completion, students should be able to demonstrate an understanding of business concepts as a foundation for studying other business subjects.

BUS 115 Business Law I**BW155X0XW**

This course introduces the student to the legal and ethical framework of business. Contracts, negotiable instruments, the law of sales, torts, crimes, constitutional law, the Uniform Commercial Code, and the court systems are examined. Upon completion the student should be able to identify legal and ethical issues that arise in business decisions and the laws that apply to them.

BUS 137 Principles of Management**BW205X0XW**

This course is designed to be an overview of the major functions of management. Emphasis is placed on planning, organizing, controlling, directing, and communicating. Upon completion, students should be able to work as contributing members of a team utilizing these functions of management.

CIS 110 Introduction to Computers**BW325X0XW**

This course provides an introduction to computers and computing. Topics include the impact of computers on society, ethical issues, and hardware/software applications, including spreadsheets, databases, word processors, graphics, the Internet, and operating systems. Upon completion, students should be able to demonstrate an understanding of the role and function of computers and use the computer to solve problems. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in natural sciences/mathematics (quantitative option).

CJC 112 Criminology**IW852X0XW**

This course introduces deviant behavior as it relates to criminal activity. Topics include theories of crime causation; statistical analysis of criminal behavior; past, present, and future social control initiatives; and other related topics. Upon completion, students should be able to explain and discuss various theories of crime causation and societal response.

CJC 113 Juvenile Justice**IJ025X0XW**

This course covers the juvenile justice system and related juvenile issues. Topics include an overview of the juvenile justice system, treatment and prevention programs, special areas and laws unique to juveniles, and other related topics. Upon completion, students should be able to identify/ discuss juvenile court structure/procedures, function and jurisdiction of juvenile agencies, processing/detention of juveniles, and case disposition.

CJC 212 Ethics and Community Relations**IX022X0XW**

This course covers ethical considerations and accepted standards applicable to criminal justice organizations and professionals. Topics include ethical systems; social change, values, and norms; cultural diversity; citizen involvement in criminal justice issues; and other related topics. Upon completion, students should be able to apply ethical considerations to the decision-making process in identifiable criminal justice situations.

CJC 231 Constitutional Law**IX102X0XW**

The course covers the impact of the Constitution of the United States and its amendments on the criminal justice system. Topics include the structure of the Constitution and its amendments, court decisions pertinent to contemporary criminal justice issues, and other related topics. Upon completion, students should be able to identify/discuss the basic structure of the United States Constitution and the rights/procedures as interpreted by the courts.

COS 111 Cosmetology Concepts 1*WC202X0X06**

This course is offered through the Continuing Education Department of Wilkes Community College and the Artistic Academy. This is a complete cosmetology course, including skills of hair cutting, styling, permanent waving, hair coloring, relaxing, facials, manicuring, pedicuring, make-up and much more. Students must complete 1200 - 1500 hours of study to be eligible to sit for the state licensing examination.

COURSE NOTE: Students must provide their own transportation to the Artistic Academy. There are fees (approximately \$1000) associated with this course. See Mr. Hutchens for more information.

COS 113 Cosmetology Concepts 2*WC202X0X07**

This course is a continuation of the Cosmetology Concepts 1 course offered through the Continuing Education Department of Wilkes Community College and the Artistic Academy. This is a complete cosmetology course, including skills of hair cutting, styling, permanent waving, hair coloring, relaxing, facials, manicuring, pedicuring, make-up and much more. Students must complete 1200 - 1500 hours of study to be eligible to sit for the state licensing examination.

COURSE NOTE: Students must provide their own transportation to the Artistic Academy. There are fees (approximately \$1000) associated with this course. See Mr. Hutchens for more information.

PREREQUISITE: IX232X0W - COS 111 Cosmetology Concepts 1

CTI 110 Web, Programming, & Database Foundations**WC222X0X01**

This course covers the introduction of the tools and resources available to students in programming, mark-up language and services on the Internet. Topics include standard mark-up language Internet services, creating web pages, using search engines, file transfer programs; and database design and creation with DBMS products. Upon completion students should be able to demonstrate knowledge of programming tools, deploy a web-site with mark-up tools, and create a simple database table.

CTS 115 Info Sys. Business Concepts**BW475X0XW**

The course introduces the role of IT in managing business processes and the need for business process and IT alignment. Emphasis is placed on industry need for understanding business challenges and developing/ managing information systems to contribute to the decision making process based on these challenges. Upon completion, students should be able to demonstrate knowledge of the 'hybrid business manager' and the potential offered by new technology and systems. Approved for transfer as a pre-major and/or elective course.

CTS 120 Hardware/Software Support**WC222X0X02**

This course covers the basic hardware of a personal computer, including installation, operations and interactions with software. Topics include component identification, memory-system, peripheral installation and configuration, preventive maintenance, hardware diagnostics/repair, installation and optimization of system software, commercial programs, system configuration, and device-drivers. Upon completion, students should be able to select appropriate computer equipment and software, upgrade/maintain existing equipment and software, and troubleshoot/ repair non-functioning personal computers.

DBA 110 Database Concepts**BW542X0XW**

This course introduces database design and creation using a DBMS product. Emphasis is placed on data dictionaries, normalization, data integrity, data modeling, and creation of simple tables, queries, reports, and forms. Upon completion, students should be able to design and implement normalized database structures by creating simple database tables, queries, reports, and forms.

DFT 119 Basic CAD**IX582X0XW**

This course introduces computer-aided drafting software for specific technologies to non-drafting majors. Emphasis is placed on understanding the software command structure and drafting standards for specific technical fields. Upon completion, students should be able to create and plot basic drawings.

HOR 114 Landscape Construction**AW042X0W**

This course introduces the design and fabrication of landscape structures/features. Emphasis is placed on safety, tool identification and use, material selection, construction techniques, and fabrication. Upon completion, students should be able to design and construct common landscape structures/features.

HOR 160 Plant Materials I**WC022X0X09**

This course covers identification, culture, characteristics, and use of plants in a sustainable landscape. Emphasis is placed on nomenclature, identification, growth requirements, cultural requirements, soil preferences, and landscape applications. Upon completion, students should be able to demonstrate knowledge of the proper selection and utilization of plant materials, including natives and invasive plants.

HOR 235 Greenhouse Production**WX022X0X10**

This course covers the production of greenhouse crops. Emphasis is placed on product selection and production based on market needs and facility availability, including record keeping. Upon completion, students should be able to select and make production schedules to successfully produce greenhouse crops.

ISC 112 Industrial Safety**IY602X0XW**

This course introduces the principles of industrial safety. Emphasis is placed on industrial safety, OSHA, and environmental regulations. Upon completion, students should be able to demonstrate knowledge of a safe working environment and OSHA compliance.

MAC 121 Intro to CNC**IY692X0XW**

This course introduces the concepts and capabilities of computer numerical control machine tools. Topics include setup, operation, and basic applications. Upon completion, students should be able to explain operator safety, machine protection, data input, program preparation, and program storage.

MEC 111 Machine Processes I**WC252X0X01**

This course introduces shop safety, hand tools, machine processes, measuring instruments, and the operation of machine shop equipment. Topics include use and care of tools, safety, measuring tools, and the basic setup and operation of common machine tools. Upon completion, students should be able to safely machine simple parts to specified tolerances.

MKT 120 Principles of Marketing**MW012X0W**

This course introduces principles and problems of marketing goods and services. Topics include promotion, placement, and pricing strategies for products. Upon completion, students should be able to apply marketing principles in organizational decision making.

SST 140 Green Building Design/Concepts**IZ282X0XW**

This course is designed to introduce the student to sustainable building design and construction principles and practices. Topics include sustainable building rating systems and certifications, energy efficiency, indoor environmental quality, sustainable building materials and water use. Upon completion, students should be able to identify the principles and practices of sustainable building design and construction.

TRN 110 Intro to Transport Technology**IZ292X0XW**

This course covers workplace safety, hazardous materials, environmental regulations, hand tools, service information, basic concepts, vehicle systems, and common transportation industry terminology. Topics include familiarization with major vehicle systems, proper use of various hand and power tools, material safety data sheets, and personal protective equipment. Upon completion, students should be able to demonstrate appropriate safety procedures, identify and use basic shop tools, and describe government regulations regarding transportation repair facilities. This course is

part of the following programs at WCC: Automotive Systems Technology, Diesel & Heavy Equipment Technology, and Collision Repair & Refinishing Technology.

TRN 120 Basic Transportation Electricity **IZ302X0XW**

This course covers basic electrical theory, wiring diagrams, test equipment, and diagnosis, repair and replacement of batteries, starters, and alternators. Topics include Ohm's Law, circuit construction, wiring diagrams, circuit testing, and basic troubleshooting. Upon completion, students should be able to properly use wiring diagrams, diagnose, test, and repair basic wiring, battery, starting, charging, and electrical concerns.

TRN 140 Transportation Climate Control **IR302X0XW**

This course covers the theory of refrigeration and heating, electrical/electronic/pneumatic controls, and diagnosis and repair of climate control systems. Topics include diagnosis and repair of climate control components and systems, recovery/recycling of refrigerants, and safety and environmental regulations. Upon completion, students should be able to diagnose and repair vehicle climate control systems.

TRN 140A Transportation Climate Control Lab **IR312X0XW**

This course provides experiences for enhancing student skills in the diagnosis and repair of transportation climate control systems. Emphasis is placed on reclaiming, recovery, recharging, leak detection, climate control components, diagnosis, air conditioning equipment, tools and safety. Upon completion, students should be able to describe the operation, diagnose, and safely service climate control systems using appropriate tools, equipment, and service information.

TRN 170 PC Skills for Transportation Technicians **IZ322X0XW**

This course introduces students to personal computer literacy and Internet literacy with an emphasis on the transportation service industry. Topics include service information systems, management systems, computer-based systems, and PC-based diagnostic equipment. Upon completion, students should be able to access information pertaining to transportation technology and perform word processing. This course is part of the following programs at WCC: Automotive Systems Technology, Diesel & Heavy Equipment Technology, and Collision Repair & Refinishing Technology.

TRN 180 Basic Welding for Transportation **IZ332X0XW**

This course covers the terms and procedures for welding various metals used in the transportation industry with an emphasis on personal safety and environmental health. Topics include safety and precautionary measures, setup/operation of MIG equipment, metal identification methods, types of welds/joints, techniques, inspection methods, cutting processes and other related issues. Upon completion, students should be able to demonstrate a basic knowledge of welding operations and safety procedures according to industry standard.

WLD 110 Cutting Processes**IZ352X0XW**

This course introduces oxy-fuel and plasma-arc cutting systems. Topics include safety, proper equipment setup, and operation of oxy-fuel and plasma-arc cutting equipment with emphasis on straight line, curve and bevel cutting. Upon completion, students should be able to oxy-fuel and plasma-arc cut metals of varying thickness.

WLD 115 SMAW (Stick) Plate**IZ382X0XW**

This course introduces the shielded metal arc (stick) welding process. Emphasis is placed on padding, fillet, and groove welds in various positions with SMAW electrodes. Upon completion, students should be able to perform SMAW fillet and groove welds on carbon plate with prescribed electrodes.

WLD 121 GMAW (Mig) FCAW/Plate**IZ402X0XW**

This course introduces metal arc welding and flux core arc welding processes. Topics include equipment setup and fillet and groove welds with emphasis on application of GMAW and FCAW electrodes on carbon steel plate. Upon completion, students should be able to perform fillet welds on carbon steel with prescribed electrodes in the flat, horizontal, and overhead positions.

WLD 131 GTAW (Tig) Plate**IZ412X0XW**

This course introduces the gas tungsten arc (TIG) welding process. Topics include correct selection of tungsten, polarity, gas, and proper filler rod with emphasis placed on safety, equipment setup, and welding techniques. Upon completion, students should be able to perform GTAW fillet and groove welds with various electrodes and filler materials.

WLD 141 Symbols & Specifications**IZ432X0XW**

This course introduces the basic symbols and specifications used in welding. Emphasis is placed on interpretation of lines, notes, welding symbols, and specifications. Upon completion, students should be able to read and interpret symbols and specifications commonly used in welding.

WCC Course Not Listed**99359X0W**

This course is for students who plan to take a course through Wilkes Community College that is not listed in Course Planner. Students should go to the Google Form link provided by their school to indicate which courses they plan to take.

CCP Fall and Spring Course Offerings



Career and College Promise – Fall 2019/Spring 2020



College Transfer Pathway Courses

Most of the courses in the College Transfer Pathways are available every semester, online and/or on the WCC Campus. Check the semester schedules posted on www.wilkescc.edu or contact Jon Hutchins jlhutchins919@wilkescc.edu for additional course offerings.

Fall Course Title	Period	Spring Course Title	Period
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COLLEGE TRANSFER PATHWAY COURSES ONLINE

Fall 2019

HIS 111	WORLD CIVILIZATION	ONLINE
MAT 171	PRECALCULUS ALGEBRA	ONLINE
PSY 150	GENERAL PSYCHOLOGY	ONLINE
MUS 110	MUSIC APPRECIATION	ONLINE
ENG 111	WRITING AND INQUIRY	ONLINE

Spring 2020

ENG 111	WRITING AND INQUIRY	ONLINE
MAT 171	PRECALCULUS ALGEBRA	ONLINE
MAT 172	PRECALCULUS TRIGONOMETRY	ONLINE
MUS 110	MUSIC APPRECIATION	ONLINE
PSY 150	GENERAL PSYCHOLOGY	ONLINE

OTHER ONLINE COURSES

Fall 2019

ANS 110	ANIMAL SCIENCE	ONLINE
CIS 110	INTRO TO COMPUTERS	ONLINE
BUS 110	INTRO TO BUSINESS	ONLINE
BUS 115	BUSINESS LAW I	ONLINE
CJC 112	CRIMINOLOGY	ONLINE
CJC 212	ETHICS & COMM RELATIONS	ONLINE

Spring 2020

ACM 112	FACILITY MANAGEMENT	ONLINE
CIS 110	INTRO TO COMPUTERS	ONLINE
MKT 120	PRINCIPLES OF MARKETING	ONLINE
BUS 137	PRINCIPLES OF MANAGEMENT	ONLINE
CJC 113	JUVENILE JUSTICE	ONLINE
CJC 231	CONSTITUTIONAL LAW	ONLINE

ANIMAL SCIENCE PATHWAY

Fall 2019

ACM 110	INTRO TO ANIMAL CARE	2 nd
ANS 116	INTRO TO THE EQUINE IND.	2 nd
ANS 150	ANIMAL HEALTH MANAGE.	2 nd

Spring 2020

ANS 130	POULTRY PROD.	2 nd
ANS 115	FEEDS AND NUTRITION	2 nd

APPLIED ENGINEERING PATHWAY

Fall 2019

ISC 112	INDUSTRIAL SAFETY	3 rd
MEC 111	MACHINE PROCESSES I	3 rd
MAC 121	INTRO TO CNC	3 rd

Spring 2020

ATR 112	INTRO TO AUTOMATION	3 rd
DFT 119	BASIC CAD	3 rd

ARCHITECTURE AND CONSTRUCTION PATHWAY

Fall 2019

ARC 112	CONSTRUCT. MATERIALS	1 st
ARC 114	ARCHITECTURAL CAD	1 st

Spring 2020

BPR 130	PRINT READING CONST.	3 rd
SST 140	GREEN BUILDING DESIGN	3 rd



Fall Course Title	Period	Spring Course Title	Period
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AUTOMOTIVE SYSTEMS PATHWAY

Fall 2019

TRN	170	PC SKILLS FOR TRANSP. TECH	4 th
TRN	180	BASIC WELDING FOR TRANSP	4 th
TRN	120	BASIC TRANSPORTATION ELEC	3 rd
AUT	116	ENGINE REPAIR	2 nd
AUT	116A	ENGINE REPAIR LAB	2 nd

Spring 2020

AUT	181	ENGINE PERFORMANCE I	4 th
AUT	181A	ENGINE PERFORMANCE I LAB	4 th
AUT	151	BRAKE SYSTEMS	2 nd
AUT	151A	BRAKE SYSTEMS LAB	2 nd
TRN	110	INTRO TO TRANS TECH.	3 rd
TRN	140	TRANSPORT. CLIMATE CONT	3 rd
TRN	140A	TRANSPORT. CLIMATE Lab	3 rd

EMERGENCY MEDICAL SCIENCE PATHWAY

Students must meet course requirements

Fall 2019

BIO	168	ANATOMY & PHYSIOLOGY I	1 st
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Spring 2020

BIO	169	ANATOMY & PHYSIOLOGY I	1 st
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HORTICULTURE PATHWAY

Fall 2019

HOR	114	LANDSCAPE CONSTRUCTION	3 rd
HOR	160	PLANT MATERIALS I	3 rd

Spring 2020

AGR	139	INTRO TO SUSTAINABLE AGR.	3 rd
HOR	235	GREENHOUSE PRODUCTION	3 rd

INFORMATION TECHNOLOGY PATHWAY

Fall 2019

CTI	110	WEB, PROG, & DATA. FOUND.	4 th
CTS	115	INFO SYSTEMS BUS. CONCEPTS	4 th

Spring 2020

CTS	120	HARDWARE/SOFTWARE SUPP.	4 th
DBA	110	DATABASE CONCEPTS	4 th

WELDING PATHWAY

Fall 2019

WLD	110	CUTTING PROCESSES	1 st
WLD	141	SYMBOLS & SPECIFICATIONS	1 st
WLD	115	SMAW (STICK) PLATE	3 rd
WLD	121	GMAW (MIG) FCAW/PLATE	2 nd

Spring 2020

WLD	110	CUTTING PROCESSES	1 st
WLD	141	SYMBOLS & SPECIFICATIONS	1 st
WLD	131	GMAW (TIG) PLATE	2 nd
WLD	121	GMAW (MIG) FCAW/PLATE	3 rd