

# Davie County High School

180 War Eagle Drive

Mocksville, NC 27028

Phone: (336) 751-5905 Fax: (336) 751-4597

<http://dchs.godavie.org>

## Davie High School Vision and Mission

### Vision Statement:

Davie County High School will prepare all students to successfully contribute to our community and our world.

### Mission Statement:

We build a culture of relationships which empowers all students to be innovative, resourceful and successful learners.

*The Davie County School System does not discriminate against any person on the basis of sex, race, religion, national origin, age, or handicap in any of its educational or employment programs or activities.*

## Registration Book

Please use this Registration Book to guide you through the course selection process for the upcoming school year. Included in these pages are important instructions for making selections. Graduation requirements are described and updated course descriptions are incorporated. *Opportunities to earn college credit while enrolled in high school are available.*

Counselors are assigned to students as listed below.  
Please contact the appropriate counselor  
with registration questions.  
(336)751-5905

Ashley King	(A-Don)	Ext. 5123	CJ Sheppard	(Kio-Ric)	Ext. 5119
kingas@davie.k12.nc.us			sheppardc@davie.k12.nc.us		
Erin Brown	(Doo-Kin)	Ext. 5124	Gina Hayes	(Rid-Z)	Ext. 5121
browne@davie.k12.nc.us			hayesr@davie.k12.nc.us		

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## Graduation & Academic Information

Math and elective credits are dependent upon the student's post high school plans.

English	4
Math*	4
Social Studies (World History; Founding Principles of the United States of America and North Carolina: Civic Literacy; Economics and Personal Finance; American History)	4
Science (Earth/Environmental, Biology and Physical Science)	3
Health and Physical Education	1
Electives (Electives depend upon post high school plans)	<u>12</u>
<b>Total</b>	<b>28</b>

\*Math-(Math 1, 2, 3, and 4<sup>a</sup> math aligned with student's post high school plans)

\*\*World Language is not required for graduation but 2 credits are required for admission to a university in the UNC system.

## Grading System

The school year is divided into two semesters of 18 weeks. Grades are reported each nine weeks.

### Grading Scale

90-100=A	80-89=B	70-79=C	60-69=D	Below 59=F
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### Weighted Grading System

<p><b>An unweighted average will be used to determine the following:</b></p> <ul style="list-style-type: none"> <li>• Honor Roll</li> <li>• President's Award for Educational Excellence</li> <li>• North Carolina academic Scholars</li> <li>• Career and College Promise Enrollment</li> </ul>	<p><b>A weighted average will be used to determine the following:</b></p> <ul style="list-style-type: none"> <li>• Class Rank</li> <li>• Honor Speaker</li> <li>• Junior Marshals</li> </ul>
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## Promotion Standards

Students must pass the following number of courses for promotion:

6 credits = 10 <sup>th</sup> Grade	12 credits = 11 <sup>th</sup> Grade	20 credits = 12 <sup>th</sup> Grade	28 credits = Graduate
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## North Carolina Academic Scholar Plan

A student who qualifies as a North Carolina Academic Scholar will receive a seal of recognition enclosed with his/her diploma. In order to be a NC Academic Scholar, a student must meet the following requirements and achieve an overall 3.5 unweighted GPA:

### Future Ready Core:

- 4 Credits of English (I, II, III, IV)
- 4 Credits of Mathematics (Math 1, 2, 3, Algebra 1, Geometry, Algebra 2 or one unit of advanced mathematics for which Algebra 2 is a prerequisite) four credits of math must be taken in grades 9-12.
- 3 Credits of Science (Earth/Environmental Science, Biology Chemistry or Physics)
- 4 Credits of Social Studies (World History; Founding Principles of the United States of America and North Carolina: Civic Literacy; Economics and Personal Finance; American History)
- 2 Credits of the same Foreign Language
- 1 Credit of Health/Physical Education
- 7 Elective credits (see paragraph below)

**25 Total credits** (Plus any additional credits required locally for graduation)

Math credits are aligned to the Future-Ready Core requirements. The fourth math credit must be a higher level math that meets MAR (Minimum Admission Requirements) for the UNC system. Elective requirements are aligned to the Future-Ready Core requirements. Six elective credits with 2 in a second language and 4 from the recommended concentration from one of the following: Career and Technical Education (CTE), JROTC, Arts Education, Second Languages, any other subject area. Three elective credits must be higher level courses taken during junior and/or senior years which carry additional quality points, such as AP, Dual or college equivalent courses, Advanced CTE/CTE credentialing courses, Online courses, and other courses designated as Honors level.

## Earning College Credit in High School

Students have several opportunities to earn college credit for courses while in high school:

### ADVANCED PLACEMENT COURSES

Teachers certified by The College Board teach these courses. These are challenging courses that follow a national curriculum. Extensive reading and outside assignments are required. Courses are offered in the regular classroom setting and online. Scores on the AP exams are 1-5; colleges will require a score of 3 or above to grant college course credit. Check with colleges you are considering for specific scores and credits earned. Students will register for the AP exam within the first month of the class. **Any student who registers for an AP exam and fails to take the exam for any reason must pay a cancellation fee per the College Board.**

### CAREER & COLLEGE PROMISE (CCP)

In partnership with Davidson Davie County Community College, students can take face-to-face courses on the Davie and Lexington Campuses of DDCC. **Students can also take online college transfer courses either in the Distance Learning Lab (DLL) on the high school campus or at home.** Students have the option of taking college transfer courses or technical courses. Students will not have to pay tuition for **CCP classes** but they must buy their books (usually \$75-\$150). Interested students should see the career coach or their counselor in Student Services for an application. Students will receive both credit at DDCC and Davie High School. Classes run on the college schedule and may begin before Davie County School calendar. The main requirements to take a CCP course are below.

**Students must**

1. Be a junior or senior
2. Have a 2.8 unweighted GPA

**All students interested in taking any courses must first see the career coach in Student Services to pick up an application.**

**College Transfer Courses:**

These courses are transferable to all of the 16 public universities in NC and many of the private colleges with a grade of “C” or better. These courses might be face to face, online, or hybrid (combination of F2F and online). Most of these courses receive AP or college weight in GPA and class rank.

Examples of college transfer courses available: (for a full list of course offerings see pages 29-32)

ART111 Art Appreciation	MAT 152 Statistics	ENG111 Expos. Writing
HIS131 American History I	HIS132 American History II	ENG112 Writing and Research in the Disciplines
MAT152 Statistics	PSY150 General Psych	SOC210 Intro to Sociology

**Technical Courses:**

These courses could be used for a certificate, diploma, or associate degree at a community college. Examples of courses:

Criminal Justice	Central Sterile Processing	EMS
Fire Protection	Early Childhood Education	Nursing Assistant
Pharmacy Tech	Machining	Welding

**ARTICULATION AGREEMENT with COMMUNITY COLLEGES**

High school students may receive Community College credit at most community colleges for certain Career and Technical courses. Students must earn a grade of “B” or higher, and achieve a **scale** score of **93** or higher on the **CTE EOC final exam**. Students must also enroll in a community college within two years of graduation. Available courses are:

Accounting I  
Automotive Service  
Drafting I, IIA, IIE and III  
Graphic Arts I and II  
Marketing

Animal Science II  
Carpentry I, II  
Early Childhood I and II  
Health Science I and II  
Masonry I, II and III

Advanced Digital Media  
Digital Media  
Foods I and II  
Horticulture I and II  
MS Word, PP & Publisher

**NORTH CAROLINA VIRTUAL PUBLIC SCHOOL (NCVPS) Grades 10-12**

These courses, offered through online instruction through the N.C. Department of Public Instruction, include regular, honors and AP level courses. College credit may be earned with AP courses. **Space is limited and placement is based upon student needs.** Due to the self-paced nature of these courses, students need a 3.0 GPA to sign up. Courses not offered in Davie High curriculum will be given priority. A registration form must be completed by the student with their school counselor. Students are assigned to the Distance Learning Lab on the high school campus for these courses.

## UNC System Minimum Admissions Requirements (MARS)

[http://www.northcarolina.edu/content.php/assessment/reports/student\\_info/mcr.htm](http://www.northcarolina.edu/content.php/assessment/reports/student_info/mcr.htm)

ENGLISH	4 Credits	
MATH	4 Credits in any one of the following combinations:	
		Algebra I and II, Geometry and one unit beyond Algebra II*
		Algebra I and II, and two units beyond Algebra II*
		Math 1, 2, and 3 and one unit beyond Math 3*
		*Courses that count for the 4 <sup>th</sup> math: (not required at NC School of the Arts)
		Pre-Calculus      Discrete Math
	AP Calculus	Advanced Functions and Modeling
	Math Ready	AP Statistics      Statistical Analysis (DCCC-Dual Enrollment)
SCIENCE	3 Credits	1 biological science course
		1 physical science course
		1 laboratory course
SOCIAL STUDIES	2 Credits	Including 1 U.S. History course
FOREIGN LANG	2 Credits	

Individual constituent institutions may require other courses in addition to the minimum requirements.

## Courses Offered

Each description includes course title, course number, grade level offered, credit number, appropriate prerequisites, and course descriptions. Certain courses require the State End of Course Exam, while others may require NC Final Exams.

### STEM CENTER COURSES

All students who have applied and been accepted into the Davie County High School STEM Center will register for STEM sections in all core classes (Language Arts, Math, Science and Social Studies). These sections are aligned with the STEM Center's goals and are taught by STEM Center teachers.

#### ENGLISH

##### **Foundations of English I (10252X01YL)    English I (10212X0YL)    Grade: 9    2 credits \*by placement only**

Course content focuses on skill building needed for success in English I. This course is taught with English I using the year-long schedule. Students assigned to this course will automatically be assigned to English I

##### **English I (10212X00) - (STEM 10212X0ST)    Grade: 9    1 credit**

Course content meets the NC Standard Course of Study and course pace requires that students perform at levels appropriate to the high school curriculum.

##### **English I Honors (10215X00) - (STEM 10215X0ST)    Grade: 9    1 credit**

Course content meets and surpasses the NC Standard Course of Study, and course pace requires that students show greater responsibility and independence than they must show in regular English I. Teachers will expect students to perform at advanced levels when interpreting literature, writing essays, and analyzing vocabulary. Only highly motivated students who excel in English should register for this course.

**Foundations of English II (10252X02YL)      English II (10222X0YL)      Grade: 10   2 credits \*by placement only**

Course content helps students to strengthen skills needed for success in English II. This course is taught with English II using the year-long schedule. Students assigned to this course will automatically be assigned to English II.

**English II (10222X00) - (STEM 10222X0ST)      Grade: 10   1 credit**

Course content meets the NC Standard Course of Study and course pace requires that students perform at levels appropriate to the high school curriculum.

**English II Honors (10225X00) - (STEM 10225X0ST)      Grade: 10   1 credit**

**Recommended at least a B in English I Honors or an A in a previous standard English I**

Course content meets and surpasses the NC Standard Course of Study. Course pace requires that students show greater responsibility and independence than they must show in regular English II. Teachers will expect students to perform at advanced levels when interpreting literature, writing essays, and analyzing vocabulary. Only highly motivated students who excel in English should register for this class.

**English III (10232X00) - (STEM 10232X0ST)      Grade: 11   1 credit**

Course content meets the NC Standard Course of Study and course pace requires that students perform at levels appropriate to the high school curriculum.

**English III Honors (10235X00) - (STEM 10235X0ST)      Grade: 11   1 credit**

**Recommended at least a B in English II Honors or an A in a previous standard English II**

Course content meets and surpasses the NC Standard Course of Study. Course pace requires that students show greater responsibility and independence than they must show in regular English III. Teachers will expect students to perform at advanced levels when interpreting literature, writing essays, and analyzing vocabulary. Only highly motivated students who excel in English should register for this class.

**Foundations of English Language and Composition (10255X03)      AP English Language and Composition (1A007X0S)**

**Grade: 11   2 total credits      Recommended at least a B in English II Honors or an A in a previous standard English II**

AP English Language is a preparatory course for students wishing to take the College Board AP English Language and Composition exam. The course requires that students learn and practice rhetorical analysis consistent with the AP exam. It engages students in becoming skilled readers of prose written in a variety of periods and disciplines and in becoming skilled writers who compose with a variety of purposes. Students will work through numerous writing assignments and practice tests which are consistent with the AP exam. College credit can be earned by successful performance on the exam. Please note that AP Language and Composition is a year-long course; Honors English III and AP Language credits will be awarded at the end of the second semester upon successful completion of the AP course.

**English IV (10242X00) – (STEM 10242X0ST)      Grade: 12   1 credit**

Course content meets the NC Standard Course of Study and course pace requires that students perform at levels appropriate to the high school curriculum.

**English IV Honors (10245X00) – (STEM 10245X0ST)      Grade: 12   1 credit**

**Recommended at least a B in English III Honors or an A in a previous standard English III**

Course content meets and surpasses the NC Standard Course of Study. Course pace requires that students show greater responsibility and independence than they must show in regular English IV. Teachers will expect students to perform at advanced levels when interpreting literature, writing essays, and analyzing vocabulary. Only highly motivated students who excel in English should register for this class.

**Foundations of English Literature Honors (10255X04)      English Literature and Composition AP (1A017X0S)**

**Grade: 12   2 total credits      Recommended at least a B in English III Honors or an A in a previous standard English III**

AP English literature is a preparatory course for students wishing to take the College Board AP English literature exam. The course will focus on selected plays, poems, and novels. Numerous writing assignments and practice tests will be administered which are consistent with the AP exam. College credit can be earned by successful performance on the exam. Students will not earn an Honors English IV credit towards graduation until successful completion of the AP course.

**Intro. To Journalism: (10312X0B)      Grade: 9-10   1 credit**

This course is designed to teach basic journalism skills. In this class, students will be introduced to the study of and have practice in gathering and analyzing information, determining the timeliness of issues, interviewing, creating digital design, and taking quality photographs. Students will be introduced to the strategies of planning, marketing, and distributing news in a variety of media including yearbooks, news outlets, and social media. Students will learn journalistic writing and proofreading strategies as well as how to use various technologies for design and photography. Students will be required to work independently and collaboratively on a variety of assignments throughout the semester. Students will learn the work habits and vital skills needed for a variety of real-world careers. Intro

to Journalism will prepare students who might be interested in continuing onto the Yearbook course or moving to digital media courses. This course is offered 1<sup>st</sup> semester only.

**Yearbook (10312X00) Grade: 10-12 1 credit Prerequisite: Application/teacher placement.**

Students in yearbook will produce the Clarion, the Davie County High School yearbook. They will be required to work in specialized departments including: copy, business, design, or photography. The course will provide additional experience with computer layout and design, photography skills, yearbook quality writing, and business and marketing strategies for selling the yearbook and ads, while simultaneously producing the yearbook. This level requires staff to work independently and collaboratively outside of the class period after school and on weekends and to assist in ad sales.

**Yearbook Honors (10325X00) Grade: 10-12 1 credit Prerequisite: Yearbook or teacher placement.**

Students in Yearbook Honors will take on more responsibility and more of a time commitment in the production of the Clarion, the Davie County High School yearbook. These students should have demonstrated skill in yearbook publication during the prerequisite course(s). This level requires staff to work outside independently and collaboratively of the class period after school, on weekends and holidays and to assist in ad sales.

**Yearbook Editor Honors (10335X00) Grade: 10-12 1 credit Prerequisite: Yearbook Honors or teacher placement.** Students in this level of the course would serve in leadership roles as editors and carry the responsibility of managing staff and final production of the yearbook. This level requires staff to commit to work outside independently and collaboratively of the class period after school, on weekends and holidays and assist in ad sales.

## **WORLD LANGUAGE**

**Spanish I (11412X00) Grade: 9-12 1 credit**

Spanish I is an introductory level course that teaches a variety of vocabulary and basic grammar concepts such as noun/adjective agreement and verb conjugations in the present tense. Listening, speaking, reading, and writing are emphasized. Students also learn about the culture of various Spanish-speaking countries.

**Spanish II (11422X00) Grade: 10-12 1 credit Prerequisite: Spanish I**

Spanish II is a continuation of Spanish I. Students increase vocabulary knowledge and learn more complex grammatical structures such as verb conjugations in the preterite and imperfect tenses. Students read, write, listen, and speak the language and learn about the culture of Spanish speakers. It is recommended that a student have at least a 'C' average in Spanish I before enrolling in Spanish II.

**Spanish III Honors (11435X00) Grade: 11-12 1 credit Prerequisite: Spanish II**

In this intermediate Spanish college-level course, students concentrate on developing speaking, listening, reading, and writing skills. Spanish III is an honors level course and requires dedication on the part of the student. Students will continue learning more advanced vocabulary and grammar such as verb conjugations in the preterite, imperfect, subjunctive, and future tenses. Students learn about the culture of Spanish speaking people and focus on reading, writing, speaking, and listening in the Spanish language. When possible, students work with elementary or middle school level ELL students at local schools. Students assist young Spanish speakers in learning English while getting experience with the Spanish language. Students must be able to provide their own transportation and complete the required forms for participating in the internship. A "B" average in Spanish II is recommended in order to be successful in Spanish III. Students enrolling in this course need to see Ms. Barney for appropriate forms.

**Spanish IV Honors (11445X00) Grade: 11-12 1 credit Prerequisite: Spanish III**

Spanish IV is an honors level course for highly motivated students. Students will continue learning new vocabulary and grammar concepts while placing emphasis on reading, writing, listening, and speaking skills. When possible, students work with elementary or middle school level ELL (English language learner) students at local schools. Students assist young Spanish speakers in learning English while getting experience with the Spanish language and the culture of the student at the same time. Students must be able to provide their own transportation and complete the required forms for participating in the internship. A "B" average in Spanish III is recommended in order to be successful in Spanish IV. Students enrolling in this course need to see Ms. Barney for appropriate forms.

## **MATH**

**Foundations of Math 1/ Math 1 (20902X0YL/21092X0YL) Grade: 9 2 credits \*by placement only**

Math 1 provides students the opportunity to study traditional topics from number and quantity, algebra, functions, geometry, and statistics and probability in a problem-centered, connected approach. Students will be expected to describe and translate among graphic, algebraic, numeric, tabular, and verbal representations of relationships and use those representations to solve problems. Appropriate technology, from manipulatives to calculators and application software, will be used regularly for instruction and assessment. A graphing calculator is required.



**Math 1 (21092X00)-(STEM 21092X0ST) Grade: 9 1 credit**

Math 1 provides students the opportunity to study traditional topics from number and quantity, algebra, functions, geometry, and statistics and probability in a problem-centered, connected approach. Students will be expected to describe and translate among graphic, algebraic, numeric, tabular, and verbal representations of relationships and use those representations to solve problems. Technology (manipulatives, calculators and application software) will be used regularly for instruction and assessment. **A graphing calculator is required.**

**Math 1 Honors (21095X00)-(STEM 21095X0ST) Grade: 9 1 credit**

This course, for the most motivated of students, has expectations for a higher level of inductive and deductive reasoning skills. This course covers the same concepts as Math 1 but at a more rigorous level that will be challenging and thorough. Appropriate technology will be used regularly for instruction and assessment. **A graphing calculator is required.**

**Foundations of Math 2 (20912X0YL) Math 2 (22092X0YL) Grade: 10 1 credits \*by placement only**

Math 2 continues students' study of topics from number and quantity, algebra, functions, geometry, and statistics and probability in a problem-centered, connected approach. Students will be expected to describe and translate among graphic, algebraic, numeric, tabular, and verbal representations of relationships and use those representations to solve problems. Technology (manipulatives, calculators and application software) will be used regularly for instruction and assessment. **A graphing calculator is required.**

**Math 2 (22092X00) - (STEM 22092X0ST) Grade: 9-10 1 credit Prerequisite: Math 1**

Math 2 continues students' study of topics from number and quantity, algebra, functions, geometry, and statistics and probability in a problem-centered, connected approach. Students will be expected to describe and translate among graphic, algebraic, numeric, tabular, and verbal representations of relationships and use those representations to solve problems. Technology (manipulatives, calculators and application software) will be used regularly for instruction and assessment. **A graphing calculator is required.**

**Math 2 Honors (22095X00) - (STEM 22095X0ST) Grade: 9-10 1 credit Recommended Math 1 grade of B or higher**

This course, for the most motivated of students, has expectations for a higher level of inductive and deductive reasoning skills. This course covers the same concepts as Math 2 but at a more rigorous level that will be challenging and thorough. This course includes group and individual projects that extend the curriculum and broaden the depth of content knowledge. Appropriate technology will be used regularly for instruction and assessment. **A graphing calculator is required.**

**Math 3 (23092X00) - (STEM 23092X0ST) Grade 10-11 1 credit Prerequisite: Math 2**

Math 3 continues students' study of topics from number and quantity, algebra, functions, geometry, and statistics and probability in a problem-centered, connected approach. Students will be expected to describe and translate among graphic, algebraic, numeric, tabular, and verbal representations of relationships and use those representations to solve problems. Technology (manipulatives, calculators and application software) will be used regularly for instruction and assessment. **A graphing calculator is required.**

**Math 3 Honors (23095X00) - (STEM 23095X0ST) Grade 10-11 1 credit Recommended Math 2 grade of B or higher**

This course, for the most motivated of students, has expectations for a higher level of inductive and deductive reasoning skills. This course covers the same concepts as Math 3 but at a more rigorous level that will be challenging and thorough. Appropriate technology will be used regularly for instruction and assessment. **A graphing calculator is required.**

**Math 4 (24092X00) Grade: 11-12 1 credit Prerequisite Math 3**

Math 4 focuses on functions, statistical thinking, and continuing study of algebra, functions, trigonometry and statistical concepts from Math 1, Math 2 and Math 3. This course is a capstone to introductory statistical concepts and integrates concepts from algebra and functions to demonstrate the relationship of algebraic reasoning as applied to behaviors and characteristics of more complex functions. **A graphing calculator is required.**

**Discrete Mathematics for Computer Science (24012X00) Grade 11-12 1 Credit Prerequisite Math 3**

Discrete Mathematics for Computer Science introduces students to discrete structures for computer science. Discrete Mathematics is a study of countable or otherwise distinct or separable mathematical structures and includes logic, combinatorics, proof and graph theory. Applications and modeling are central to this course of study. Appropriate technology will be regularly used for instruction and assessment. **A graphing calculator is required.**

**Pre-Calculus Honors (24035X00) - (STEM 24035X0ST) Grade: 10-12 1 credit**

**Prerequisite: Honors Math 3 Recommended Honors Math 3 grade of B or higher**

This course, for the most motivated of students, has expectations for a higher level of inductive and deductive reasoning skills. This rigorous course provides students an honors level study of algebra, functions, and trigonometry experienced in prior math courses. This course builds on algebraic skills and understanding of functions to delve into real world phenomena and to deepen understanding of

functions, preparing for Calculus that will be challenging and thorough. Applications and modeling will be included throughout the course of study. Appropriate technology will be used regularly for instruction and assessment. **A graphing calculator is required.**

**AP Precalculus (2A047X00) Grade 10 1 credit**

**Prerequisite: Math 3 Students should have a Math 3 grade of B or higher to take this course.**

AP Precalculus is for any student seeking a third- or fourth-year mathematics course following completion of Math 3. Students explore everyday situations using mathematical tools and lenses. Through regular practice, students build deep mastery of modeling and functions and examine scenarios through multiple representations. AP Precalculus prepares students for other higher-level mathematics and science courses. A graphing calculator is required.

Note: This course is not a prerequisite for and does not have to be followed by AP Calculus AB or BC.

**Calculus AB Honors (28005X0AB) AP Calculus AB (2A007X0S) Grade: 11-12 2 total credits**

**Prerequisite: Pre-Calculus Students must have an A average in Pre-Calculus to be eligible to take this course**

This course, for the most motivated of students, has expectations for a higher level of inductive and deductive reasoning skills. This rigorous course will be challenging and thorough and designed as a preparatory course for students wishing to take the College Board AP Calculus AB exam in the spring. First semester topics develop the students' understanding of the concepts of calculus (functions, graphs, limits, derivatives, and integrals) and provides experience with its methods and applications. This Calculus course encourages the geometric, numerical, analytical, and verbal expression of concepts, results, and problems. Interpretation and properties of definite integrals, applications of integrals, the Fundamental Theorem of Calculus, techniques and applications of anti-differentiation, and numerical approximations to definite integrals will be discussed second semester. Assignments and practice tests will be administered which are consistent with those found on the AP exam. College credit (up to 4 hours) can be earned by successful performance on the exam. Appropriate technology will be used regularly for instruction and assessment. **A graphing calculator is required.** This is a yearlong course and must be completed in its entirety.

**Statistics Honors (28005X04) AP Statistics (2A037X0S) Grade: 11-12 2 total credits**

**Prerequisite: Honors Math 3 Recommended Honors Math 3 grade of B or higher**

This course is designed for students to investigate data, analyze its meaning, apply statistical techniques, and support their inferences of that data. The course contains four major areas of study: exploratory analysis, planning a study, probability, and statistical inference. First Semester will focus on exploratory analysis, planning a Study, and basic probability. Second Semester will delve deeper into probability concepts and Statistical Inference. Students will work cooperatively in groups towards constructing an understanding of these concepts. Students will be required to use various technologies towards the completion of these goals. Assignments and practice tests will be administered which are consistent with those found on the AP exam. Students will complete projects that will connect the concepts learned in class to the real world setting. College credit (up to 4 hours) can be earned by successful performance on the exam. Appropriate technology will be used regularly for instruction and assessment. **A graphing calculator is required.** This is a yearlong course and must be completed in its entirety.

## SCIENCE

### BIOLOGICAL SCIENCES

**Biology (33202X00) - (STEM 33202X0ST) Grade: 10-11 1 credit Prerequisite: Earth/Environmental Science**

This course is designed to prepare the student to live in a world of technology with an in-depth understanding of science concepts and specialized instruction. Special emphasis is given to lab work and projects, which promote creativity and the use of the scientific method. Topics include: structure and function of living things, ecosystems, evolution, genetics, and molecular biology.

**Biology Honors (33205X00) - (STEM 33205X0ST) Grade: 9-11 1 credit Prerequisite: Earth/Environmental Science**

This course is suitable for students seeking higher education or a science related career. Emphasis will be placed on the use of thinking skills and problem solving techniques while learning topics in ecology, molecular biology, genetics and evolution. Students will be required to utilize more written expression and critical thinking skills on tests, assessments, and lab reports. **Students choosing to take this course will be required to complete at least one, in-depth science research project and paper.**

**Biochemistry Honors (30205X02) AP Biology (3A007X0S) Grade: 11-12 2 credit**

**Prerequisites: Biology, Chemistry (B average in Chemistry or Honors Chemistry)**

Biochemistry Honors is a precursor to AP Biology. It focuses on the study of cell and molecular biology in preparation for AP Biology. Topics covered include cell structure and function, cell respiration, photosynthesis, genetics and DNA technology. Special attention is paid to lab activities. AP Biology offers a survey of living organisms and their relationships to each other and to their environment. Studies include topics from evolution, embryology, physiology, plant form and function and ecology. Special attention is paid to AP labs.

College credit is possible after taking the AP Biology exam. This is a yearlong course and must be completed in its entirety.

**Anatomy and Physiology (33302X00) Grade: 10-12 1 credit Prerequisite: Biology**

**Recommended that student have taken or be taking Chemistry while enrolled in Anatomy**

This advanced science course focuses on the human body through a study of the systems of the body and their functions. A rigorous study of each system expands the knowledge gained in biology courses to include the actions and interactions of each system. The vocabulary and terminology of anatomical study will dramatically increase the useful vocabulary of students. This course uses dissection as an instructional activity. (This course is recommended for Health Science students to be taken after Health Sciences I.)

**Anatomy and Physiology Honors (33305X00) Grade: 10-12 1 credit Prerequisite: Honors Biology**

**Recommended that student have taken or be taking Chemistry while enrolled in Anatomy**

This course has been designed to meet the needs of those students who must acquire a firm grounding in human anatomy and physiology in order to prepare for medical, nursing or paramedical careers. Standards are similar to those in the standard level of the course, but are addressed in greater depth. Students will be required to utilize more written expression and critical thinking skills on tests, assessments, and lab reports. **Students choosing to take this course will be required to complete at least one, in-depth science research project and paper.** Students will investigate the structure and function of the human body with an emphasis on laboratory work. This course uses dissection as an instructional activity. (This course is recommended for Health Science students to be taken after Health Sciences I.)

**PHYSICAL SCIENCE**

**Earth/Environmental Science (35012X00) - (STEM 35012X0ST) Grade: 9 1 credit**

This course is designed for students interested in studying basic principles of Earth Science. Special areas of study include: meteorology, the biosphere, plate tectonics, mineralogy, astronomy, oceanography, geology, and environmental issues. This course meets the NC Graduation Requirement for Earth Science.

**Earth/Environmental Science Honors (35015X00) - (STEM 35015X0ST) Grade: 9 1 credit**

This class represents a well-balanced science course stressing the processes and activities of science as well as the basic concepts of Earth Science. This course is designed for students who desire an in-depth understanding of the forces involved in shaping the Earth, environmental resources, climate, oceans, space and other topics. Students will be required to utilize more written expression and critical thinking skills on tests, assessments, and lab reports. **Students choosing to take this course will be required to complete at least one, in-depth science research project and paper.**

**Foundations of Environmental Science (Honors) (30205X0E) AP Environmental Science (3A027X0S) Grade: 9 1 credit**

Foundations of Earth/ Environmental Science is a precursor to AP Environmental Science. It focuses on the study of earth systems and processes in preparation for AP Environmental Science. Topics covered include ecological systems, biodiversity, population dynamics, and Earth structure and resources. Special attention is paid to lab activities. AP Environmental Science focuses on human impact on the environment. Studies include topics from land and water use, energy resources and consumption, and atmospheric, aquatic, and terrestrial pollution to global change. Special attention is paid to AP labs. College credit is possible after taking the AP Environmental Science exam. This is a yearlong course and must be completed in its entirety. This is an advanced Freshman level course that, when combined with AP Environmental Science, will allow students to satisfy the required credit for Earth/ Environmental Science as well as earn AP credit with successful completion of the exam.

AP Environmental Science provides students with the scientific principles, concepts, and methodologies required to understand the interrelationships in the natural world and to identify and analyze environmental problems both natural and human-made. **This AP course is completed in one semester.** Therefore, if a student is taking this course in the fall semester, extra time must be devoted to independent study and preparation before the May AP Exam.

**AP Environmental Science (3A027X00) Grade: 10-12 1 credit**

**Prerequisites: Earth/Environmental Science**

This course provides students with the scientific principles, concepts, and methodologies required to understand the interrelationships in the natural world and to identify and analyze environmental problems both natural and human-made. **This AP course is completed in one semester.** Therefore, if a student is taking this course in the fall semester, extra time must be devoted to independent study and preparation before the May AP Exam.

**Physical Science (34102X00) - (STEM 34102X0ST) Grade: 10-12 1 credit Prerequisites: Math 1**

This class includes an introduction to physics and chemistry. Students gain an understanding of applying science to solve basic science-related problems. Lab work and hands-on activities will be included in instruction.

**Chemistry (34202X00) - (STEM 34202X0ST) Grade: 10-12 1 credit**

**Prerequisite: Earth/Environmental Science and Biology**

**Recommended that students should have scored a B average or higher in all math courses prior to taking Chemistry. If this is not the case, students are encouraged to take Physical Science before taking a Chemistry.**

Chemistry pursues the chemical concepts of matter and provides students with an understanding of chemistry which will benefit the student in other related course areas. Considerable emphasis is placed on mathematics as it relates to chemistry. A scientific calculator is required.

**Chemistry Honors (34205X00) - (STEM 34205X0ST) Grade: 10-12 1 credit**

**Prerequisite:** Earth/Environmental; **Corequisite:** Biology (At least one should be of Honors level) **Recommended that students should have scored a B or higher in all math courses prior to taking Honors Chemistry.**

This course focuses on the advanced study of chemistry and is suitable for students seeking higher education or a science related career. Content consists of problem solving, study of chemical changes, organic chemistry and nuclear chemistry. Emphasis is placed on math applications related to chemistry problems and lab experimentation. Students will be required to utilize more written expression and critical thinking skills on tests, assessments, and lab reports. A scientific calculator is required. **Students choosing to take this course will be required to complete at least one, in-depth science research project and paper.**

**Inorganic Chemistry Honors (34215X0F) AP Chemistry (3A017X0S)**

**Grade: 10-12 2 total credits**

**Corequisite:** Biology. **Recommended that students should have scored a B or higher in all math and science courses. Students have the option to take Honors Chemistry prior to Inorganic/ AP Chemistry OR they may take Inorganic/ AP Chemistry without the Honors Chemistry Prerequisite. \*Students who choose not to take Honors Chemistry must have demonstrated diligence and motivation in previous Science & Math courses.**

Inorganic Chemistry Honors is a precursor for students planning to enroll in AP Chemistry. The concepts and principles of chemistry are presented in greater depth and at a more rapid pace than in Academic/Honors Chemistry. Students perform extensive research, independent study, and lab work. Theoretical and mathematical relationships in chemistry are also studied.

AP Chemistry Students pursue advanced studies of the basic principles and concepts covered in an introductory “General Chemistry” year-long college level course. Topics include chemical composition, stoichiometry, atomic structure, bonding, molecular structure, chemical reactions, states of matter, and solutions. Students are introduced to multimedia labs and use available technology and the Internet to complete class projects. College credit can be earned based on results of the AP exam. This is a yearlong course and must be completed in its entirety.

**Physics (34302X00) Grade: 10-12 1 credit Prerequisite: Biology and Math 2**

The focus of this course will be the study of traditional physics, and is designed to give the high school student an introduction into physics. The content will include units on motion, Newton’s Laws, mechanical energy, light, sound, thermodynamics, and electricity.

**Physics Honors (34305X00) Grade: 10-12 1 credit Prerequisite: Biology and Math 2**

The course focus is on the study of classical Physics. The content includes units on motion, Newton’s laws, mechanical energy, the wave nature of light and sound, elementary thermodynamics, electricity and electrical circuits. Students will be required to utilize more written expression and critical thinking skills on tests, assessments, and lab reports. An important prerequisite is an understanding of trigonometry in preparation for vector analysis. **Students choosing to take this course will be required to complete at least one, in-depth science research project and paper.**

**Foundation of Physics I Honors (30205X05)**

**AP Physics I (3A057X00) Grade: 10-12 2 total credits**

**Prerequisite:** Math 3 **Corequisite:** PreCalculus

Foundations of Physics I is a college level course and a prerequisite to AP Physics I. The course uses an Algebra (and Trigonometry) based approach to Physics, **but introductory Physics is not a prerequisite.** Students explore principles of Newtonian mechanics (including rotational motion); work, energy, and power; mechanical waves and sound; and introduction to simple circuits. This course is recommended for students planning a science related or technical career. Students who enroll in this course are expected to take the AP Physics I course in the spring.

AP PHYSICS I is a college level course. This course uses an Algebra (and Trigonometry) approach to Physics. Students explore principles of Newtonian mechanics (including rotational motion); work, energy, and power; mechanical waves and sound; and introduction to simple circuits. This course is recommended for students planning a science related or technical career. College credit can be earned based on results of the AP exam. This is a yearlong course and must be completed in its entirety.

## **SOCIAL STUDIES**

**World History (43032X00) - (STEM 43032X0ST)**

**Grade: 9 1 credit**

The course is intended to examine the historical development of the world and global issues and patterns since 1200. The course also explores underlying themes of: power and authority; change and continuity; human-environment interaction; globalization; cultural diffusion; and individual and group identity. Students will become aware of the rich diversity of human cultures and examine the major achievements of the world from the beginning of history to the present. All civilizations are included with the emphasis on Western Civilization. Students will be introduced to different forms of text.

**World History Honors (43035X00) - (STEM 43035X0ST) Grade: 9**

**1 credit**

**Recommended at least a B in a previous honors social studies course or an A in a previous standard social studies course**

The honors level course requires students to take greater responsibility for their learning and to go into more depth on certain topics. Students will learn and practice various types of essay writing such as compare/contrast, change over time, and document based essays.

Students will be expected to read texts critically with an emphasis placed on primary sources. The course is intended to examine the historical development of the world and global issues and patterns since 1200. The course also explores underlying themes of: power and authority; change and continuity; human-environment interaction; globalization; cultural diffusion; and individual and group identity. Students will become aware of the rich diversity of human cultures and examine the major achievements of the world from the beginning of history to the present. All civilizations are included with the emphasis on Western Civilization.

**\*\* Students interested in taking AP World History in 10<sup>th</sup> grade, see course description for Civics and Economics Honors.**

**Foundations of World History Honors (48005X0W) / AP World History Modern (4A097X00) Grade: 10 2 total credits**  
**Recommended at least a B in a previous honors social studies course or an A in a previous standard social studies course.** This **Foundations** honors level course is intended as a preparatory course for students wishing to take Advanced Placement World History in the spring semester of their tenth grade year. The course consists of a comprehensive and chronological study of world history from ancient civilization to the 1200s. This course requires extensive outside reading and should only be attempted by highly motivated students.

**AP World History: Modern** is intended for highly motivated students with a strong background in history who are interested in an in-depth study of world history and cultures. Outside reading assignments, research skills, and an emphasis on mastery of written expression will be a part of this course. This survey course deals with the theme of history and the cultural aspects of man's life on earth. Students will become aware of the rich diversity of human cultures and examine the major achievements of the world and its civilizations since the 1200s. There is a possibility for college credit for those who are successful on the AP World History Exam. \*Foundations of World History is a prerequisite for AP World History; Modern: however, only successful completion of AP World History: Modern will fulfill state graduation requirements.

**Founding Principles of the United States and North Carolina: Civic Literacy (43182X00) - (STEM 43182X0ST)**  
**Grade: 10 1 credit Prerequisite: World History**

The Civic Literacy course is designed to educate students on the development, roles and responsibilities of the United States government. Students will explore the National Government in detail, focusing on the three branches of government and how each contributes to the survival of our government. Students will also be able to compare and contrast the national, state, and local governments and their roles. Additionally, students will learn how they can influence the government through participation in political parties, elections and voting. Students will explore the content through the following lenses: inquiry; behavioral sciences; civics and government; economics; geography; and history. As students develop cognitively, these lenses become more focused based on the grade-level content and disciplinary thinking skills. Topics studied include citizenship and government, the foundations of American government, political parties, and federal, state, and local governments. .

**Founding Principles of the United States and North Carolina: Civic Literacy Honors (43185X00) - (STEM 43185X0ST)**  
**Grade: 9-10 1 credit Prerequisite: World History (unless taken for AP World History prerequisite)**

This course is intended for highly motivated students who are interested in an in-depth study of civics. Outside reading assignments, research skills, and an emphasis on mastery of written expression will be a part of this course. The Civic Literacy course is designed to educate students on the development, roles and responsibilities of the United States government. Students will explore the National Government in detail, focusing on the three branches of government and how each contributes to the survival of our government. Students will also be able to compare and contrast the national, state, and local governments and their roles. Additionally, students will learn how they can influence the government through participation in political parties, elections and voting. Students will explore the content through the following lenses: inquiry; behavioral sciences; civics and government; economics; geography; and history. As students develop cognitively, these lenses become more focused based on the grade-level content and disciplinary thinking skills. Topics studied include citizenship and government, the foundations of American government, political parties, and federal, state, and local governments.

**AP U.S. Government and Politics (4A067X00) Grade 9-12 1 credit**

No prerequisite (strong writing and reading skills highly recommended)

This course is designed as a college-level, unbiased introduction to the government and politics of the United States as well as to the Advanced Placement program. Students will study political concepts, ideas, interactions, roles, and behaviors of the United States democratic government in order to understand in depth the political culture of the United States. Students will study and analyze the founding documents of the United States, major Supreme Court decisions, and other important texts and visuals to understand the function and processes of the United States government. Outside readings and case studies will be required and students will be required to complete several assignments on their own. In addition to outside readings, students will also write essays on specific government and political topics, and will be able to analyze, apply and make comparisons of evidence-based arguments. Additionally, there will be a REQUIRED research project that each student will have to complete based on a political science or civics based topic. This class is intended for students on track to take World History AP their sophomore year and satisfies the Founding Principles of The United States of America and North Carolina: Civic Literacy graduation requirement.

**American History (43112X00) - (STEM 43112X0ST)      Grade: 11      1 credit      Prerequisite: Civics and Economics**

The American History course will begin with the end of the French and Indian War (1763) and end through the latest Presidential Election (i.e. 2020, 2024, etc.). This course will explore the overarching themes, trends, and concepts of our nation's history, including the development and evolution of the American system of government, the patterns and impact of migration and immigration, cultural development through the arts and technological innovations, relationships with foreign nations, and the role of both the individual and diverse groups in building the American story. Students in this course will be asked to investigate major turning points in American History to develop an understanding of multiple causation, to determine patterns of change and continuity, and to be able to compare multiple perspectives of the past. Rooted in Inquiry-based skills, students will trace American development while learning to craft compelling questions, synthesize and evaluate evidence, develop claims, communicate ideas, and take informed action. Students will continue to build upon previous studies of American History, the fundamental concepts in civics and government, economics, behavioral science (culture), and geography taught in grades kindergarten through eight as they examine American history. As well-rounded, productive citizens, students will leave the American History course with both the knowledge and the skills to engage with the modern world by recognizing contemporary patterns and connections.

**American History Honors (43115X00) - (STEM 43115X0ST)      Grade: 11      1 credit      Prerequisite: Civics and Economics**  
**Recommended at least a B in a previous honors social studies course or an A in a previous standard social studies course**

This course is intended for highly motivated students who are interested in an in-depth study of US History. Outside reading assignments, research skills, and an emphasis on mastery of written expression will be a part of this course. In this course students will explore the overarching themes, trends, and concepts of our nation's history, including the development and evolution of the American system of government, the patterns and impact of migration and immigration, cultural development through the arts and technological innovations, relationships with foreign nations, and the role of both the individual and diverse groups in building the American story. Students in this course will be asked to investigate major turning points in American History to develop an understanding of multiple causation, to determine patterns of change and continuity, and to be able to compare multiple perspectives of the past. Rooted in Inquiry-based skills, students will trace American development while learning to craft compelling questions, synthesize and evaluate evidence, develop claims, communicate ideas, and take informed action. Students will continue to build upon previous studies of American History, the fundamental concepts in civics and government, economics, behavioral science (culture), and geography taught in grades kindergarten through eight as they examine American history. As well-rounded, productive citizens, students will leave the American History course with both the knowledge and the skills to engage with the modern world by recognizing contemporary patterns and connections.

**Economics and Personal Finance (43192X00) (STEM 43192X0ST)      Grade: 12      1 credit      Prerequisite: American History**

This course will support the development of students who understand economic decisions, use money wisely, understand education and career choices, and understand how to be financially responsible citizens. Students should be provided with the agency, tools, and knowledge necessary to live in and contribute to a financially sound society. The Economics and Personal Finance (EPF) course is intended to be a study of economics, personal finance, income and education, money management, critical consumerism, and financial planning.

**Economics and Personal Finance Honors (43195X00) (STEM 43195X0ST)      Grade: 12      1 credit      Prerequisite: American History**

This course is designed for motivated students who are interested in an in-depth study and understanding of the operation of the economy and how personal finance decisions can affect an individual. This course will support the development of students who understand economic decisions, use money wisely, understand education and career choices, and understand how to be financially responsible citizens. Students should be provided with the agency, tools, and knowledge necessary to live in and contribute to a financially sound society. The Economics and Personal Finance (EPF) course is intended to be a study of economics, personal finance, income and education, money management, critical consumerism, and financial planning.

**Foundations of U.S. History Honors (48005X0US) / AP U.S. History (4A077X00)      Grade: 11      2 total credits**

**Recommended at least a B in a previous honors social studies course or an A in a previous standard social studies course**

This **Foundations** course is intended as a preparatory course for students wishing to take Advanced Placement US History in the spring. The course consists of a comprehensive and chronological study of American history from 1607 to 1877. This course requires extensive outside reading and should only be attempted by highly motivated students.

**AP US History** consists of a comprehensive and chronological study of American history from 1877 to the present. At the conclusion of the course, students will take the AP US History Test. There is a possibility for college credit for those who are successful on the Advanced Placement US History Exam. This course requires extensive outside reading and should only be attempted by highly motivated students.

\*Taking both Foundations of U.S. History and AP U.S. History will fulfill the state requirements for American History I and II.

**Holocaust and Peace Studies (48002X00)      Grade: 10-12      1 credit**

Holocaust and Peace Studies is a history course that investigates the ideas of superiority and inferiority and how those ideas influenced Hitler's systematic genocide of Jewish people. This course will delve into readings about the concepts of genocide, Judaism, the Holocaust, and other world genocides that have occurred. This course will rely heavily on the use of primary and secondary sources, which cover very graphic material. This course will also include a rigorous, systematic study of the ideas of superiority and inferiority in connection to genocides of other people and cultures and connecting those ideas to the present/current events.

**AP Psychology (4A057X00)      Grade: 11-12      1 credit**

**Recommended at least a B in a previous honors social studies course or an A in a previous standard social studies course**

This Advanced Placement elective course is equivalent to an introductory college course in psychology. The AP Psychology course is designed to introduce students to the systematic and scientific study of the behavior and mental processes of human beings and other animals. Students are exposed to the psychological facts, principles, and phenomena associated with each of the major subfields within psychology. They also learn about the ethics and methods psychologists use in their science and practice. The course is designed to prepare students to take the Advanced Placement Exam administered by the College Board and Educational Testing Service for possible college credit.

**African American History (46012X00) Grade: 11-12      1 credit**

**Recommended grade of B in a previous social studies course. This course will be offered as standard or honors level with differentiation of assignments and projects.**

This course is intended for highly motivated students who are interested in an in-depth study of African American History. Strong interest in history, African American culture, race relations, and demographics is highly recommended. The purpose of this course is to examine the African American experience in the United States from 1619 to the present. There will be a special emphasis on African American history post emancipation. Major themes in this course will include African origins, slavery, the Civil War, Reconstruction, Jim Crow era (segregation), the Civil Rights Movements, the great migration, prominent black leaders throughout history, black women, African American culture in modern America, race relations, and African American contributions to society. Upon completion of this course, students should be able to analyze African American freedom struggles and triumphs from the 17<sup>th</sup> century to present times. The goal of this course is to broaden student knowledge and understanding of African American history, culture, economics, and politics. The historical content of this course should be taught with relevance to contemporary and current issues in order to ensure a deeper understanding for students.

**FINE ARTS   All Proficiency Levels determined by Teacher****Visual Arts Beginning (54152X00)      Grade: 9-12      1 credit**

Beginning Visual Arts is an introduction to the visual world and how it connects to us. Studies include art history, painting, drawing, ceramics, design, and mixed media. Students will have access to a variety of art techniques and art media in a range of projects and assignments. Beginning Visual Arts students will be able to recognize the elements and principles of art used in the art processes throughout history. With this foundation of knowledge, students will understand the value of developing visual arts skills to prepare them for their own success after high school. Students will gain confidence in themselves as creative, functioning human beings.

**Visual Arts Intermediate (54162X00)      Grade: 10-12      1 credit      Prerequisite: Mastery of Visual Arts Beginning**

Students who have successfully mastered the required standards for Beginning Visual Arts will be placed into Intermediate Art (or above if warranted). Students who have not mastered all Beginning requirements will remain in Beginning Art for their next Visual Arts class. Intermediate Art involves the development of competent drawing, painting and 3-dimensional techniques. There will be an emphasis on media exploration and original invention. Students will be able to identify and analyze art which will hone their skills of observation – necessary in any profession. Students will work in an increasingly independent, self-motivated environment – respectful of other students and their work.

**Visual Arts Proficient (54175X00)      Grade: 10-12      1 credit      Honors Credit available for Proficient Level**

**Prerequisite: Mastery of Visual Arts Beginning & Intermediate and Teacher placement**

This course requires a mature approach to art with an emphasis on original artistic flair and imagination. Students are expected to begin exploring their own approach and personal voice. The primary focus is producing gallery-ready art for exhibitions increasing technical skills. Students prepare portfolios and learn about art-based career options. Emphasis on job-ready skills will be a component. Students will be placed in this course only after they have displayed a competence for self-directed study.

**Visual Arts Advanced (54185X00)      Grade: 10-12      1 credit      Honors Credit available for Advanced Level**

**Prerequisite: Teacher placement**

Advanced Art involves more in-depth and personal exploration. Students may specialize in one area of Visual Arts to complete their mastery of the new North Carolina Essential Standards for Arts Education. A portfolio is required to pass this course. Students will be placed in this course only after they have displayed a competence for self-directed study and mastery of the art media they have chosen.

**Concert Band I Fall (52552X0C1)      Concert Band II Spring (52552X0C2)****Grade: 9-12      1 credit each      Prerequisite: Completion of all 8<sup>th</sup> grade band requirements****Honors level available by Audition and Teacher Recommendations only**

Students enrolled in the Concert Band will study intermediate music and instrumental performance techniques. Classroom activities also include listening to music, music theory and instrument study. It is expected that students will spend an appropriate amount of time practicing their instrument at home. Members of the Concert Band are required to participate in two evening rehearsals and two evening performances per semester. (All conflicts, including athletic participation, are dealt with on a case-by-case basis and should not prevent a student from also participating in band.) Students enrolled in the Concert Band will also perform at the Northwest District Music Performance Adjudication. **All ninth-graders who take band are required to enroll in both semesters of this course.**

**Symphonic Band I Fall (52562X0S1)      Symphonic Band II Spring (52562X0S2)****Honors Level available by Audition and Teacher Recommendations only****Grade: 9-12      1 credit each      Prerequisite: Completion of all 8<sup>th</sup> grade band requirements**

Students enrolled in the Symphonic Band will study intermediate to advanced music and instrumental performance techniques. Classroom activities also include listening to music, music theory and evaluating music. It is expected that students will spend an appropriate amount of time practicing their instrument at home. Members of the Symphonic Band are required to participate in two evening rehearsals and two evening performances per semester. (All conflicts, including athletic participation, are dealt with on a case-by-case basis and should not prevent a student from also participating in band.) Students enrolled in the Symphonic Band for spring semester may perform at the Northwest District Music Performance Adjudication.

**Wind Ensemble I Fall (Honors) (52575X0W1)      Wind Ensemble II Spring (Honors) (52575X0W2)      - Audition Required****Grade: 9-12      1 credit each      Prerequisite: Completion of all 8<sup>th</sup> grade band requirements & MS Director Recommendation**

Members of the Wind Ensemble are selected by audition in January of the preceding school year. The Wind Ensemble is an ensemble comprised of advanced musicians who have demonstrated the required level of mastery and independence on their major performing instrument and dedication to the craft of making music. Students in the class will study advanced to difficult music and instrumental performance techniques. Classroom activities also include listening to music, advanced music theory, aural skills and evaluating music. It is expected that students will practice their instruments and study their music each day at home. Members of the Wind Ensemble are required to participate in two evening rehearsals and two evening performances per semester and also perform at the Mocksville Veterans Day Remembrance on November 11 and at the Northwest District Music Performance Adjudication. (All conflicts, including athletic participation, are dealt with on a case-by-case basis and should not prevent a student from also participating in band.) Students selected for the Wind Ensemble MUST register for both semesters of the course.

**Concert Choir (52302X00)      Grade: 9-12      1 credit (Honors Credit Available)**

Fundamentals of choral music are taught, including posture, breathing, diction, and production of vowel sounds. Beginning music theory and sight reading are included. All types of choral literature will be studied including holiday music during the fall semester. Students will be expected to participate daily through singing. Students can register for this class more than once. Participation in two concerts is required and makes up the students final exam grade.

**Cantare (52312X00) Grade: 10-12      1 credit      Prerequisite: Concert Choir or Teacher Recommendation**

No audition is required but students will be expected to participate and perform at an intermediate level. Students can register for this class more than once. All types of choral literature will be studied including holiday music when the class is held in the fall semester. Singing skills will be further developed as well as music reading skills. Participation in two concerts is required and makes up the students final exam grade.

**Vocal Ensemble I Fall (Honors) (52185X02)      Vocal Ensemble II Spring (Honors) (52185X03)      Grade: 10-12      1 credit****Prerequisite: Concert Choir      and/or Cantare - Audition Only**

Membership is by audition and selection is based on level of musical ability, literacy and vocal independence displayed in previous chorus classes. All types of choral literature will be studied with emphasis on performing skills. Students are expected to learn limited choreography as they prepare for concerts. Activities can include state contests and festivals, sports events, community concerts (this could include churches) and elementary and middle school recruitment concerts.) An out of state performance trip is planned every other year during spring break. Students will be expected to attend all concerts. Concert dress or tuxedo is required. The Choral Director will notify you if you qualify to register for this class.

**Dance Foundations (Beginning) (51152X00)      Grade: 9-12      1 credit**

Students explore movement collectively as a creative art form along with the fundamentals of modern dance. Dance movement skills including improvisation are introduced and developed through a variety of forms. Whole body movement, strength, flexibility, endurance and proper alignment are explored in technique development. As both dancer and choreographer, students use creative and critical thinking skills to evaluate various aspects of the creative process. Choreographic structures and principles as well as the elements of dance are examined through major modern dance works beginning in the 20th century leading to the present. Connections will be



cultivated between cultural, historical and interdisciplinary aspects of dance in a global context. **\*Required: Dancewear, 2 out of school rehearsals, formal performance and written work.**

**Dance Progressions (Beginning) (51152X01) (Credit available for Intermediate & Honors Proficient)**

**Grade: 10-12 1 credit Prerequisite: Dance Beginnings, Teacher Placement**

Student emphasis is placed on the individual continuation of creating and performing using the elements of dance as well as a variety of specific forms and organizational structures. Theatrical elements enhancing choreographic meaning are investigated more thoroughly. Anatomical concepts are embodied to improve alignment, balance, strength, flexibility and endurance. Focusing on accurate terminology and analysis students evaluate the relationship between choreographic structure and elements of dance to communicate ideas. Connections are made using dance as a tool to investigate concepts in a variety of subject areas, cultural contexts and historical time frames. **\*Required: Dancewear, 2 out of school rehearsals, several formal and informal performances, and a major presentation.**

**Dance Composition (Intermediate) (51162X01) (Honors Credit available for Proficient & Advanced Levels)**

**Grade: 10-12 1 credit Prerequisite: Three semesters of Dance Foundations or Progressions, Teacher Placement, Audition**

Students concentrate on personal investigation as they make artistic choices about meaning in the creative process forming choreographic vision based on aesthetic criteria and evaluation. Analysis of specific musical and organizational forms are investigated as a basis for choreography. Dance movement skills are refined as concepts of the patterns of total body organization are integrated through Bartenieff/Laban work. Students uncover their own artistic meaning by evaluating a variety of works comparing choreographic intent and audience interpretation in this in-depth study. Cultural and historical references will be interpreted through projects created based on interdisciplinary integration. **\*Required: Dancewear, several out of school rehearsals, formal and informal performances, digital and written portfolio, and a major presentation.**

**Dance Company (Intermediate) (51262X00) (Honors Credit available for Proficient & Advanced Levels)**

**Grade: 9-12 1 credit Prerequisite: Three semesters of Progressions, Audition, Teacher Placement**

This course is a creative, performance-based class representing the highest technical/creative level for the serious student looking for a college/professional experience. Additionally, students are encouraged to take a dance class in the fall before taking the company class in the spring. **\*Required: Dancewear, several out of school rehearsals, formal and informal performances, digital and written portfolio, and a major presentation are required.**

**Theatre Arts Beginning (53152X00) Grade: 9-12 1 credit**

Students will learn the fundamentals of theatre arts from all spectrums. This includes, but is not limited to improvisation, the history of theater, acting techniques, researching playwrights, technical theatre, and scene and monologue acting. This course is designed for students who have little or no experience in theatre arts. Students are required to attend one main stage performance.

**Technical Theatre Intermediate (53162X00) Grade: 10-12 1 credit Prerequisite: Theatre Arts Beginning**

Students will learn all elements of technical theater, including design, construction and safety, lighting, sound, costumes, props and running crew responsibilities. Students will be required to help in one of the technical areas for a mainstage performance and attend 1-2 weeks of technical rehearsals and performances. Students will also be required to come to all scheduled after school and Saturday set building days.

**Davie Players Intermediate (53162X01) Grade: 10-12 1 credit**

**Prerequisite: Theatre Arts Beginning, Technical Theater, or Musical Theatre and Audition**

Students will carry the skills learned in Theatre Arts Beginning and Technical Theater throughout this course to enhance their theatrical abilities. At this level of acting, students are required to participate in every aspect of a full-length production. Students are required to attend after school rehearsals and all main stage performances. This will include 2 weeks of evening rehearsal/performance commitment. Students may be required to attend Saturday set days and provide costumes if the need arises.

**Davie Players Proficient Honors (53175X01) Grade: 11-12 1 credit**

**Prerequisite: Theatre Arts Beginning, Technical Theater, or Musical Theatre and Audition**

Admission to the class is through audition and skills learned in Theatre Arts Beginning, Technical Theater and Davie Players Intermediate. At this level of acting, students are required to participate in every aspect of a full-length production. Students are required to attend after school rehearsals and all main stage performances. This will include 2 weeks of evening rehearsal/performance commitment. In order to receive honors credit, proficient senior students must direct and supervise all aspects of a one-act play including auditioning, casting, rehearsals, publicity, and all technical requirements needed for their specific theatrical work. This will be performed in the auditorium as an evening performance.

**Musical Theatre (53622X04) Grade: 9-12 1 credit Honors level available**

**Prerequisite: Concert Choir (Fall) and Audition**

This course requires students to participate in a full-length musical production. Students will be required to attend 2 weeks of evening rehearsals (this includes tech week) leading up to the final /performance. Students will be singing, dancing and acting to support the production, which will be presented in two or three evening performances, and a Sunday matinee. Following the final performance, students are required to strike the set from the stage. The performances and strike make up part of the students final exam grade.

## **CAREER and TECHNICAL EDUCATION (CTE)**

**Students are required to show proficiency in CTE courses through an NCDPI determined Proof of Learning (POL). Proofs of Learning will consist of an industry-recognized credential, a Performance-Based Measure (PBM), or CTE State Assessment. CTE courses listed as inherently honors do not have a standard level option. The depth and scope of the standards in these courses have been deemed rigorous enough to warrant an inherently honors designation by NCDPI.**

**CTE Advanced Studies (Available in all CTE Program areas) Grade: 12 1 credit**

**Prerequisite: Two technical credits in one career cluster.**

This culminating course is for juniors and seniors who have earned two **technical credits in one Career Cluster, one of which once credit is a concentrator course. The Advanced Studies course must augment the content of the concentrator courses and prepare students for success** in transitioning to postsecondary education and future careers. Students work under the guidance of a teacher with expertise in the content of the concentrator course in collaboration with community members, business representatives, and other school-based personnel. The four parts of this course include writing a research paper, producing a product, developing a portfolio, and delivering a presentation. Students demonstrate their abilities to use 21<sup>st</sup> century skills.

### **WORK BASED LEARNING OPPORTUNITIES:**

For information on Work Based Learning opportunities such as Marketing Co-Op, Internships, Job Shadowing, or to participate in Career College Promise classes at Davidson Community College, the CTE Career Development Counselor or Career Coach.

**CTE Internship Grade: 11-12 Honors Option Available 1 credit Application Required**

**Prerequisite: Completion of a CTE Course; Honors: Completion of CTE Honors Course or equivalent**

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. This internship opportunity is open to rising juniors and seniors who have been enrolled in at least a foundational course and level I CTE class. The internship must relate to the appropriate CTE pathway. For example, a student desiring to take an auto tech internship must have been enrolled in an auto technology class this school year. Students receive 1 unit of elective credit for successfully completing 120 (135 for Honors) work hours at the internship site and maintaining wage/hour records and biweekly journal reflections. Students are responsible for transportation to the job site. See the Career Development Coordinator for additional information.

## **AGRICULTURE**

**Agricultural Mechanics I (AS312X00) Grade: 9-11 1 credit**

Students who are interested in careers such as a mechanic, welder, electrician, engineer, carpenter, or manufacturer or would like to be able to do maintenance around the home or shop should consider agriculture mechanics. 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. Students also complete an SAE (Supervised Agriculture Experience) project. This project is completed outside of class and complements in class activities. Students are encouraged to become part of the FFA which is a student driven organization that offers competitive events, community service, and leadership building skills. Possible Careers: Agriculture Construction, Electrician, Welder

**Agricultural Mechanics II Honors (AS325X00) Grade 10-12 1 credit Prerequisite: Agricultural Mechanics I**

In this course, the topics of instruction emphasized are non-metallic agricultural fabrication techniques, metal fabrication technology, safe tool and equipment use, human resource development, hot/cold metal working skills and technology, advanced welding and metal cutting skills, working with plastics, plumbing, concrete and masonry, agricultural power and advanced career exploration/decision making. This course enhances and hones knowledge and technical skills learned in Agricultural Mechanics I.. English language arts,

mathematics, and science are reinforced. Students are encouraged to become part of the FFA which is a student driven organization that offers competitive events, community service, and leadership building skills. Possible Careers: Agriculture Construction, Electrician, Welder

**Animal Science I (AA212X00) Grade: 9-11 1 credit**

Students who have an interest in careers such as a veterinarian, nutritionist, biologist, or have an interest in raising animals should consider Animal Science I. Animal Science I puts a strong emphasis on livestock such as cattle, pigs, and chickens. Topics that will be covered include, animal welfare, careers, breeds, management, reproduction, genetics, nutrition, digestion, and animal evaluation. Students also complete an SAE (Supervised Agriculture Experience) project. This project is completed outside of class and complements in class activities. Students are encouraged to become part of the FFA which is a student driven organization that offers competitive events, community service, and leadership building skills. Possible Careers: Veterinarian/Vet Tech, Wildlife Officer, Production Agriculturalist

**Animal Science II Honors (AA225X00) Grade: 10 – 12 1 credit Prerequisite: Animal Science I**

Animal Science II focuses on waste management, diseases, agriculture issues and trends, anatomy, physiology, evaluation, nutrition, processing, reproduction, and genetics. Animal Science II puts a strong emphasis on livestock such as sheep, cattle, swine, and poultry. Students learn much of the class material through hands-on activities like showing livestock at the fair. Students build their leadership skills through public speaking, creating videos, and parliamentary procedure. Students are encouraged to participate in FFA competitive events and community service. These activities provide students with the opportunity to apply knowledge from the classroom. Students are expected to continue their SAE (Supervised Agriculture Experience). Possible Careers: Veterinarian/Vet Tech, Wildlife Officer, Production Agriculturalist

**Horticulture I (AP412X00) Grade: 9-12 1 credit**

This course is recommended for anyone interested in pursuing a career in landscaping, greenhouse management, nursery production or would just like to know how to maintain a garden. Topics covered are careers, plant anatomy and functions, reproduction, identification, grasses, floriculture, soils and fertilizers. Students will also participate in completing an SAE project which is hands-on and conducted outside of the classroom. FFA is a highly recommended student led organization that offers competitive events, opportunities for community service and leadership building skills. Possible Careers: Agriculture, Landscaping, Nursery/Florist

**Horticulture II (AP422X00) Horticulture II Honors (AP425X00) Grade: 10-12 1 credit Prerequisite: Horticulture I**

This course is perfect for anyone interested in landscape design, plant production and plant identification. This course focuses on hands-on plant production opportunities in the greenhouse. Students will create a landscape design project and will learn over 80 plants based on their characteristics, common names and scientific names. Students will also participate in completing an SAE project which is hands-on and conducted outside of the classroom. FFA is a highly recommended student led organization that offers competitive events, opportunities for community service and leadership building skills. For honors credit, students will complete enhanced assignments from the honors course blueprint. Possible Careers: Agriculture, Landscaping, Nursery/Florist

**BUSINESS, FINANCE, AND MARKETING EDUCATION AND COMPUTER SCIENCE/IT**

**Accounting I (BA102X00) Accounting I Honors (BA105X00) Grade: 10-12 1 credit Recommended Prerequisite: Math I**

This course is designed to help students understand the basic principles of the accounting cycle. Emphasis is placed on the analysis and recording of business transactions, preparation, and interpretation of financial statements. Account reconciliation, depreciation and payroll activities will also be covered. Honors coursework allows students the opportunity to complete business case studies. Students going directly into the workforce from high school will benefit from this class. Any student considering a business program at a 2 or 4 year college will find this course extremely helpful when they get to college. Can be used as a fourth math. Work-based learning strategies appropriate to this course are school-based enterprises, internships, and job shadowing. 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. **Math I is recommended as a prerequisite for this course.** Possible Careers: Accountant, Business/Marketing College Pathway, Finance/Auditor

**Accounting II Honors (BA205X00) Grade: 11-12 1 credit Prerequisite: Accounting I**

Due to the rigorous content and requirements for this course, it is only offered at the honors level. This course will provide students with knowledge of more advanced accounting procedures. Emphasis includes departmental accounting, corporate accounting, cost accounting, and inventory control systems, managerial accounting and budgeting, and further enhancement of accounting skills. Students are given the opportunity to obtain QuickBooks certification. 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. Possible Careers: Accountant, Business/Marketing College Pathway, Finance/Auditor

**Adobe I Visual Design (II412X00) Honors (II415X00) Grades 9 (Honors Only); 10-12 1 credit**

This course will provide students with an in-depth look into graphic design and photography. Students will learn to use Adobe Photoshop, and Adobe Illustrator, with an opportunity to certify in both. Digital cameras and lighting techniques will play a large part in the course. The honors course is faster paced and students will create a web based portfolio of all of their work. This course will prepare students for careers in advertising, graphic design, as well as photography. Possible Careers: Photography, Graphic Design, Logo Design

**Adobe II Visual Design Honors Only (II425X00) Grade: 10-12 1 credit Prerequisite: Adobe Visual Design I**

This course builds on student design and development skills by focusing on longer print production projects as well as more in-depth content and advanced techniques for graphics and layout development. Students continue to produce rich print communications as they focus on effective graphic design, project management, design specifications, and iterative development. Students develop graphic design and print production skills that solve specific communication challenges to meet client and audience needs. This course is aligned to the Adobe Certified Associate InDesign certification, and also integrates Adobe Photoshop and Adobe Illustrator skills. English language arts are reinforced. Possible Careers: Photography, Graphic Design, Logo Design

**Adobe I Video Design (II452X00) Honors (II455X00) Grade: 10-12 1 credit**

This course is a project-based video course that develops career and communication skills in video production using Adobe tools. Students will learn the ins and outs of filming, editing, and sharing digital videos on platforms such as Youtube, Vimeo, and Tik Tok. Students will learn Adobe Premiere Pro with an opportunity to certify. This course will prepare students for a career in any video related field from Hollywood, to vlogging and streaming. Possible Careers: Video Editor, Content Creator, Streamer

**Business Essentials (Principles of Business and Finance) (BF102X00) Honors (BF105X00) Grade: 9-12 1 credit**

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 (including social media marketing), and significance of business financial and risk management. English language arts, social studies, and mathematics are reinforced. The honors level of this course will entail a more rigorous workload with emphasis on case studies and application-based assignments. Work-based learning strategies appropriate for this course include mentorship, school-based enterprise, service learning, and job shadowing 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. Possible Careers: Accountant, Business/Marketing, Finance

**Business Management I (BB402X00) Business Management I Honors (BB405X00)**

**Grade: 10-11 1 credit Prerequisite: Business Essentials (Principles of Business and Finance)**

This course is designed to introduce students to core management concepts. The experience includes how managers plan, organize, staff, and direct the business's resources that enhance the effectiveness of the decision-making process. Also the experience includes students working through ethical dilemmas and problem-solving situations with customer service while academic and critical-thinking skills. The honors level of this course will entail a more rigorous workload with emphasis on case studies and application-based assignments. English language arts is reinforced. Possible Careers: Business/Marketing, Finance, Any Managerial Career

**Business Management II (BB422X00) Business Management II Honors (BB425X00) Grade: 10-12 1 credit**

**Prerequisite: Business Management I**

This course is designed to enable students to acquire, understand, and appreciate the significance of management to business organizations. Understanding how managers control financial resources, inventory, ensure employee safety, and protect customer data enhances the effectiveness of their decision making. Students will work through ethical dilemmas, practice problem solving, and enhance their teamwork skills. The honors level of this course will entail a more rigorous workload with emphasis on case studies and application-based assignments. English language arts and mathematics are reinforced. Possible Careers: Business/Marketing, Finance, Any Managerial Career

**Computer Science Principles, AP (0A027X00) Grades 11-12 1 credit**

AP Computer Science Principles is an introductory college-level computing course that introduces students to the breadth of the field of computer science. Students learn to design and evaluate solutions and to apply computer science to solve problems through the development of algorithms and programs. Students also explain how computing innovations and computing systems—including the internet—work, explore their potential impacts, and contribute to a computing culture that is collaborative and ethical. Python will be the programming language of choice.

**Entrepreneurship I (ME112X00) Grade: 10-12 1 credit**

**Recommended Prerequisite: Business Essentials (Principles of Business and Finance)**

This course is designed for students to evaluate the concepts of going into business for themselves and/or working for or operating a small business. Emphasis is on the exploration of feasible ideas of products/services, research procedures, business financing, marketing strategies, and access to resources for starting a small business. Students submit a semester business plan project and do craft projects related to course material. There will be at least one guest speaker. Students develop components of a business plan and evaluate startup requirements. DECA (an association for Marketing Education students) and/or FBLA (Future Business Leaders of America) competitive

events, community service, and leadership activities provide the opportunity to apply essential standards and workplace readiness skills through authentic experiences. Possible Careers: Entrepreneur (Business Owner), Human Resources, Business Consultant

**Entrepreneurship II Honors (ME125X00) Grade 11-12 1 credit Prerequisite: Entrepreneurship I**

Due to the rigorous content and requirements for this course, it is only offered at the honors level. In this course, students develop an understanding of pertinent decisions to be made after obtaining financing to open a small business. Students acquire an in-depth understanding of business regulations, risks, management, and marketing. Students develop a small-business management handbook. English language arts and social studies are reinforced. DECA (an association for Marketing Education students) and/or FBLA (Future Business Leaders of America) competitive events, community service, and leadership activities provide the opportunity to apply essential standards and workplace readiness skills through authentic experiences. Possible Careers: Entrepreneur (Business Owner), Human Resources, Business Consultant

**Fashion Merchandising (MI212X00) Honors (MI215X00) Grade: 9-12 1 credit**

This course is designed for students interested in the fashion industry and the merchandising of fashion. Topics include an overview of the fashion industry, evolution and movement of fashion, career development, merchandising, risk management, promotion, and fashion show production. Skills in research, mathematics, textile chemistry, and technical writing are reinforced in this course. The honors level of this course will entail a more rigorous workload with emphasis on case studies and application-based assignments. Work-based learning strategies appropriate for this course include cooperative education or paid/unpaid internships. Marketing simulations, projects, teamwork, DECA leadership activities, meetings, conferences, and competitions provide many opportunities for application of instructional competencies. Possible Careers: Fashion Consultant/Buyer, Department Manager

**Marketing I (MM512X00) Honors (MM515X00) Grade: 10-12 1 credit**

This course is designed to introduce students to the dynamic processes and activities in marketing. The experience includes students developing an understanding and skills in the areas of distribution, marketing-information management, market planning, pricing, product/service management, promotion, and selling. Project-Based Learning is a large component of this course. The honors level of this course will entail a more rigorous workload with emphasis on case studies and application-based assignments. English language arts, mathematics, and social studies are reinforced. Possible Careers: Social Media and Communications Manager, Sales Representative, Promotion and Advertising

**Marketing II Application (MA522X00) Honors (MA525X00) Grades 10-12 1 credit**

**Prerequisite: Marketing I or Fashion Merchandising or Sports Marketing**

In this course, students will apply an understanding of marketing functions and impact of the functions on business decisions. Through problem solving and critical thinking, students will apply knowledge and skills in the areas of customer relations, economics, financial analysis, channel management, marketing-information management, marketing planning, products and services management, and selling. Relative opportunities are available for students to use technology to acquire and use marketing information. Project-Based Learning is a large component of this course. The honors level of this course will entail a more rigorous workload with emphasis on case studies and application-based assignments. English, language arts, and social studies are reinforced. Possible Careers: Social Media and Communications Manager, Sales Representative, Promotion and Advertising

**Microsoft Word and PowerPoint (BM102X00) Grade 9-12 1 credit**

Students will learn to use features of Microsoft Word and Microsoft PowerPoint to enhance classwork in high school coursework, college coursework, and in future careers. This course will help prepare students for the industry recognized Microsoft Office Specialist (MOS) in Word and/or PowerPoint. English language arts are reinforced. Students are expected to earn the Microsoft Office credential for both Word and PowerPoint in 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. Applicable for any future course offerings and career.

**Microsoft Word and PowerPoint Honors (BM105X00) Grades: 9-12 1 credit**

Students will learn to use features of Microsoft Word and Microsoft PowerPoint to enhance classwork in high school coursework, college coursework, and in future careers. This honors course is a faster paced version of MIA-WP with additional objectives. The honors course will extend to expert level software features and allow for students to create a semester portfolio showcasing their certifications and work samples. This course will help prepare students for the industry recognized Microsoft Office Specialist (MOS) in Word and/or PowerPoint. Students will also have the opportunity to receive Microsoft Office Specialist certifications in Word, Word Expert, OneNote, and PowerPoint. Students can receive one hour of college credit for each certification obtained. Applicable for any future course offerings and career.

**Microsoft Excel Honors (BM205X00) Grades: 9-12 1 credit**

Students will learn to use basic and advanced features of Microsoft Excel to create, format and analyze data. Students will have the opportunity to earn industry recognized certifications from Microsoft. Certifications give students going directly into the workforce an advantage. College bound students will find the material extremely useful, especially if they are entering any business, science or research field. Can be used as a fourth math. Possible Careers: Business Analyst, Data Analyst, Administrative Assistant

**Microsoft Word and PowerPoint is a recommended prerequisite for the student to be successful in this class.**

**Sales I (MI312X00)                      Grade: 9-12              1 credit**

This course teaches students the basic knowledge around the sales profession. Students will explore careers in selling, personal branding, communication skills, customer service, buying behavior, technology, types of selling, product knowledge, and the selling process. Project-based learning, English language arts, and social studies are reinforced. Possible Careers: Sales Representative in any field, Account Management, Purchasing Agent

**Sales II (MI322X00)   Sales II Honors (MI325X00) Grade: 10-12      1 credit      Prerequisite: Sales I**

This course teaches students the art of selling and will build on the content from the Sales I course. Students will further develop their personal brand and will continue to work on communication and customer service skills in addition to learning about pre and post-sales activities. Students will use role plays to engage in the selling process and will learn to think on their feet. Project-based learning, English language arts, mathematics, and social studies are reinforced. Possible Careers: Sales Representative in any field, Account Management, Procurement/Purchasing Agent

**Sports and Event Marketing I (MH312X00)              Grade: 10-12      1 credit**

In this course, students are introduced to the industry of sports, entertainment, and event marketing. Students acquire transferable knowledge and skills among related industries for planning sports, entertainment, and event marketing. Topics included are branding, licensing, and naming rights; business foundations; concessions and on-site merchandising; economic foundations; human relations; and safety and security. Mathematics and social studies are North Carolina Career and Technical Education Essential Standards 73 reinforced. Work-based learning strategies appropriate include internship, school-based enterprise, service learning, and job shadowing. Apprenticeship is not available for this course. DECA (an association for Marketing Education students) competitive events, community service, and leadership activities provide the opportunity to apply essential standards and workplace readiness skills through authentic experiences. Possible Careers: Marketing Director, Sports/Entertainment/Corporate Sales Director, Sports Administration

**Sports and Event Marketing II Honors (MH325X00)   Grade: 11-12      1 credit**

**Prerequisite: Sports and Event Marketing I**

In this course, students acquire an understanding of sports, entertainment, and event marketing. Emphasis is on business management, career development, client relations, contracts, ethics, event management, facilities management, legal issues, and sponsorships. Mathematics and social studies are reinforced. Work-based learning strategies appropriate include internship, school-based enterprise, service learning, and job shadowing. The honors level of this course will entail a more rigorous workload with emphasis on case studies and application-based assignments. Apprenticeship is not available for this course. DECA (an association for Marketing Education students) competitive events, community service, and leadership activities provide the opportunity to apply essential standards and workplace readiness skills through authentic experiences. Content in this course aligns with the following industry credentials: Customer Service and Sales Certification OR Advanced Customer Service and Sales Certification and Fundamentals Marketing Concepts. Possible Careers: Sports Agent, Athletics Director, Facilities Coordinator

**FAMILY & CONSUMER SCIENCES**

**Apparel and Textile Production I (FA312X00)              Grade: 9-12              1 credit**

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. 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. A student project is the culminating assignment for this course. Since this is a personal student project, students will need to provide materials for this project which could cost up to \$25 depending on the project selected by the student. Possible Careers: Textile Designer, Apparel Product Developer, Retail/Marketing Management

**Apparel and Textile Production II (FA322X00) Honors (FA325X00)   Grade: 10-12              1 credit      Prerequisite: Apparel I**

Students in this course will gain a deeper understanding of design principles, engineering, fabrication and global needs of an ever-changing apparel and textile industry. The course provides a major focus on textile design, textile science, product construction, global manufacturing, and the apparel/textile market while incorporating and scaffolding prerequisite concepts. Emphasis is placed on the application of design and engineering skills used to create, produce, and prepare a product for market. Students will also gain the entrepreneurial skills necessary for successful marketing and distribution of an apparel product. Art, literacy, mathematics, science, and social studies are reinforced throughout. Possible Careers: Textile Designer, Apparel Product Developer, Retail/Marketing Management

**Child Development (FE602X00)                      Grade: 9-11              1 credit**

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. 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. Possible Careers: Teacher, Pediatrician, Childcare Worker

**Culinary Arts and Hospitality I Honors (FH105X00) Grade 10-12 1 credit**

**Recommended Prerequisite: Foods and Nutrition I**

This course allows students to survey culinary techniques and restaurant management skills. Students learn about the industry, food and kitchen safety, kitchen and management foundations, front-of-house operations, and basic food preparation methods including salads, sandwiches, baked goods, and stocks, sauces, and soups. Students also learn communication skills, professional expectations, culinary math, and how to build a food service career. Work-based learning opportunities through catering and Faculty Cafés support the curriculum, raise funds for the program, and provide work hours towards earning the ProStart® Certificate of Achievement, an industry-recognized certification in the foodservice industry. Students also have the opportunity to compete in the North Carolina ProStart® Invitational (NCPI) in the Spring as either a Management or Culinary team member. English, language arts, and mathematics are reinforced. Possible Careers: Chefs/Head Cooks, Food Service/Lodging Managers, Institution/Cafeteria Cook

**Culinary Arts and Hospitality II Internship Honors (FH126X00) Grade: 10-12 1 credit**

**Co-requisite or Prerequisite: Culinary Arts and Hospitality I**

THIS COURSE IS AN OFF-CAMPUS INTERNSHIP WITH AN APPROVED FOOD SERVICE LOCATION. This course is designed for students to demonstrate their knowledge and skills in basic food preparation, garde manger, baking and food service operations through mentored work experiences in the food service industry. The experience includes students preparing and selling breakfast items, salads and sandwiches, and quick breads and cookies while applying safety, sanitation, and guest service skills. Arts, English and language arts, mathematics, science, and social studies are reinforced. Possible Careers: Chefs/Head Cooks, Food Service/Lodging Managers, Institution/Cafeteria Cook

**Culinary Arts and Hospitality III Honors (FH135X00) Grade: 11-12 1 credit**

**Prerequisite: Culinary Arts and Hospitality II Internship**

This course allows students to survey culinary techniques and restaurant management skills. Students learn about restaurant marketing, menu management, controlling foodservice costs, human resources, and food products and preparation, including breakfast foods; fruits, vegetables, and starches; meat, poultry, and seafood; and baked goods and desserts. Students also learn about sustainability, nutrition, and the role of foodservice operations in these initiatives. Work-based learning opportunities through catering and Faculty Cafés support the curriculum, raise funds for the program, and provide work hours towards earning the ProStart® Certificate of Achievement, an industry-recognized certification in the foodservice industry. Students also have the opportunity to compete in the North Carolina ProStart® Invitational (NCPI) in the Spring as either a Management or Culinary team member. English, language arts, and mathematics are reinforced. Possible Careers: Chefs/Head Cooks, Food Service/Lodging Managers, Institution/Cafeteria Cook

**Foods and Nutrition I (FN412X00) Grade: 9-11 1 credit**

This course examines the nutritional needs of the individual. Emphasis is placed on fundamentals of food production (including safety and sanitation), kitchen and meal management, major food groups and their preparation, and time and resource management. This is a foundational course for students considering a career in the foodservice industry. After successful completion of the food sanitation component; students are eligible to sit for the National Registry's First Principles for Food Handlers program; a certificate program for food handlers. English language arts, mathematics, science, and social studies are reinforced. 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. Possible Careers: Supervisors of Food Preparation/Servers, Agricultural and Food Science Technicians, Sports Nutritionist

**Foods and Nutrition II (FN422X00) Honors (FN425X00) Grade Level: 10-12 1 credit Prerequisite: Foods I**

In this course students experience the intersection of nutrition science and food preparation, while building skills for an expanding range of career opportunities through a unit in entrepreneurship. Emphasis is placed on health and social responsibility while improving the way people eat. Students learn how to manage food safety; plan and prepare meals for a variety of consumers and clients; and explore the food system and global cuisines. After successfully completing the ServSafe® component of the course, students are eligible to sit for the ServSafe® Food Protection Manager Certification. The ServSafe® Food Protection Manager Certification is an industry-recognized credential, enabling students' greater job opportunities in the foodservice industry. The honors level of this course will entail a more rigorous workload with emphasis on application-based assignments. English/language arts, social studies, mathematics, science, technology, interpersonal relationships 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. Possible Careers: Supervisors of Food Preparation/Servers, Agricultural and Food Science Technicians, Sports Nutritionist

**Interior Design I Fundamentals (FI212X00) Grade: 10-12 1 credit**

This course engages students in exploring various interior design professions, while building the content knowledge and technical skills necessary to provide a foundational knowledge of the design industry. Emphasis is placed on design thinking and utilization of the interior design process; human, environmental and behavioral factors; color theory, elements and principles of design; hand sketching/digital design techniques, space planning, selection of products and materials for residential interiors; client relationship

building and design communication techniques. Topics of study include elements and principles of design, backgrounds and furnishings, architectural styles and features, and functional room design. 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. Possible Careers: Interior Designer, Architect, Home Staging

**Interior Design II Studio (FI222X00) Grade: 10-12 1 credit**

This course prepares students for entry-level and technical work opportunities in the residential and non-residential interior design fields. Students deepen their understanding of design fundamentals and theory by designing interior plans to meet living space needs of specific individuals or families. Topics include application of design theory to interior plans and production, selection of materials, and examination of business procedures. Art and mathematics are reinforced. 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. Possible Careers: Interior Designer, Architect, Home Staging

**Teaching as a Profession I Honors (FE215X00) Grade: 11-12 1 credits**

This college level course is designed to encourage students who possess a high level of academic achievement and those personality traits found in good teachers to consider teaching as a career. Students are exposed to the many facets of education through class discussion, observation and participation in public school classrooms. Students will examine their aptitudes for teaching, learner needs and development, including students with exceptionalities, and the history, trends, and governance of education. Possible Careers: Teacher, Community College Instructor, College Professor

**\*\* Because they intern in various schools, students must provide their own transportation.**

**Teaching as a Profession II Honors (FE225X00 and FE235X00 - Field Experience) Grade: 11-12 2 credits**

**Prerequisite: Teaching as a Profession I**

This college level two-block course is designed to encourage students who possess a high level of academic achievement and those personality traits found in good teachers, to consider teaching as a career. Students are exposed to the many facets of education through class discussion, observation and participation in public school classrooms. Students will apply concepts through an embedded internship experience with a cooperating teacher as they design, deliver, and reflect on their instruction. Students also investigate certification, employment, ethics, and professionalism in education. Possible Careers: Teacher, Community College Instructor, College Professor

**\*\* Because they intern in various schools, students must provide their own transportation.**

**HEALTH SCIENCE EDUCATION**

Health Science courses are sequenced as follows: Foundations of Health Science and then Health Science I. From there, students can either take the Biomedical Technology pathway or the Health Science II pathway. Biomedical Technology is geared toward students who are interested in medical technology and/or medical research. Health Science II is geared more toward training for patient care.

**Biomedical Technology (HB112X00) Grade: 10-12 1 credit Prerequisite: Health Science I**

This course challenges students to investigate current medical and health care practices in preparation for a career in medical research and development. Topics include infectious diseases, molecular biology and genetics, cancer, forensic science, regenerative medicine, nanotechnology, and bioinformatics. Students will become familiar with using laboratory tools and equipment. Students will participate in laboratory activities to extract, analyze, and sequence DNA, forensic DNA typing, and basic genetic engineering. A solid foundation in biology and medical math are highly recommended for this course. Projects, teamwork, and demonstrations are utilized in this course. Possible Careers: Biomedical Technician, Research Physician, Biomedical Engineer

**Foundations of Health Science (HU102X00) Grade 9-10 1 credit**

This course is designed to introduce students to the healthcare environment and the role of health care workers. Topics include medical terminology with an emphasis on learning the different body systems, medical math, the history of healthcare, health care agencies, the character of a health care worker, bioethics, legal responsibilities, holistic health, cultural awareness, leadership, and career decision-making. Projects, teamwork, and demonstrations are utilized in this course. **This course is strongly recommended as preparation for any other courses in the Health Science Pathway.**

**Health Science I (HU402X00) Honors (HU405X00) Grade: 10-11 1 credit**

**Recommended Prerequisite: Foundations of Health Science**

Health Science I focuses on human anatomy, physiology, and human diseases and disorders. The Health Science I course is a fast paced class. A large amount of material will be covered in a short period of time. The honors level class entails a more detailed level of thinking and application skills are needed. Projects included in this class are making a bone, designing a 3D brain, PSA on skin cancer, etc. This class is designed to help any student wanting to pursue a career in any healthcare field; such as doctor, nurse, respiratory therapy, dentist, physical therapy, phlebotomist, paramedic, etc. **Foundations of Health Science is strongly recommended as preparation for this course.**

**Health Science II (HU422X00) Honors (HU425X00) Grade: 11-12 1 credit Prerequisite: Health Science I**



Health Science II applies the knowledge and skills that were learned in Health Science I while further challenging students to learn more about the healthcare field. 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 be certified in American Heart Association BLS (basic life support) in this course. Honors class will also complete a 40 hour observation experience that is arranged by the individual student with a preceptor of their choice. This observation experience gives the students a chance to explore a career that they are interested in. **This course provides a strong foundation and is a recommended prerequisite for Nursing Fundamentals (Nurse Aide I and II) at DCCC through College and Career Promise.**

## **TECHNOLOGY ENGINEERING AND DESIGN**

**Engineering Design (TE132X00) Grades: 10-12 1 credit Prerequisite: Technology Engineering and Design Recommended Prerequisite: Drafting I**

This second-level 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 systems, 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. Possible Careers: Engineering, Draftsman, Trades (Welder, Machinist, Plumber, Electrician, etc.)

**Robotics I (TL182X00) Grades 9-12 1 credit**

This course focuses on engineering concepts including physics, programming, mechanical systems, and electrical and electronics systems. Students will complete STEM based activities and capstone projects during the semester. Core concepts are delivered with a robotics emphasis through relevant activities and projects. Possible Careers: Advanced Manufacturing, Coding, Research and Development

**Robotics II (TL192X00) Grades 10-12 1 credit Prerequisite: Robotics I**

This course focuses on Introduction to Electronics, Mechanical Properties, C Programming, Industrial Robotic Arms and Advanced Mechanics. Students will collaborate with a team using the skills listed above to build a robot to operate under operational control, with a fully-functional locomotive system, a fully functional collection system, a fully functional delivery system and compete in robot competitions. Possible Careers: Advanced Manufacturing, Machining, Research and Development

**Technology Engineering and Design (TE112X00) Grade: 9-11 1 credit**

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. Students will complete projects using computer-aided drafting and modeling software such as Google Sketchup, Autodesk Inventor and AutoCAD 2014. 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. Possible Careers: Engineering, Draftsman, Designer, Trades (Welder, Machinist, Plumber, Electrician, etc.)

## **TRADE AND INDUSTRY**

**Automotive Services Fundamentals (IT112X00) Grade: 9-11 1 credit**

This course introduces automotive safety, basic automotive terminology, system & component identification, knowledge and introductory skills in hand tools, shop equipment, basic servicing, and use of service information. Also careers and various job opportunities in the automotive repair industry will be discussed. As part of the NATEF accreditation, topics are aligned to the Maintenance and Light Repair (MLR) requirements. English language arts are reinforced. Work based learning strategies appropriate for this course include job shadowing. SkillsUSA competitive events, community service, and leadership activities provide the opportunity to apply essential standards and workplace readiness skills through authentic experiences. Possible Careers: Automotive Technician, Diesel Technician, Maintenance Technician

**Automotive Service I (IT162X00) Grade: 10-11 1 credit Prerequisite: Automotive Service Fundamentals**

This course develops automotive knowledge and skills in performing scheduled automotive maintenance, servicing and basic testing of brakes, electrical systems, drivetrain, engine, HVAC and steering & suspension systems, emphasizing hands-on experience. As part of the NATEF accreditation, topics are aligned to the Maintenance and Light Repair (MLR) requirements. English language arts are reinforced. Work based learning strategies appropriate for this course include job shadowing. SkillsUSA competitive events, community service, and leadership activities provide the opportunity to apply essential standards and workplace readiness skills through authentic experiences. SkillsUSA competitive events, community service, and leadership activities provide the opportunity to apply essential standards and workplace readiness skills through authentic experiences. Possible Careers: Automotive Technician, Diesel Technician, Maintenance Technician

**Automotive Service II Honors (IT175X00) Grade: 11-12 1 credit****Prerequisite: Automotive Service Fundamentals, Automotive Service I**

This course builds on the knowledge and skill introduced in Automotive Service I and develops advanced knowledge and skills in vehicle system repair and/or replacement of components in the brakes, electrical system, drivetrain, engine, HVAC and steering & suspension systems, emphasizing hands-on experience. As part of the NATEF accreditation, topics are aligned to the Maintenance and Light Repair (MLR) requirements. English language arts are reinforced. Work based learning strategies for this course include job shadowing. SkillsUSA competitive events, community service, and leadership activities provide the opportunity to apply essential standards and workplace readiness skills through authentic experiences. This course helps prepare students for the Automotive Service Excellence (ASE) certification in Maintenance Light Repair (MLR-G1). SkillsUSA competitive events, community service, and leadership activities provide the opportunity to apply essential standards and workplace readiness skills through authentic experiences. Possible Careers: Automotive Technician, Diesel Technician, Maintenance Technician

**Automotive Service III Honors (IT185X00) Grade: 11-12 1 credit****Prerequisite: Automotive Service II and III are blocked together.**

This course builds on the skills and knowledge introduced in Automotive Service I & II. Building advanced automotive skills and knowledge in vehicle servicing, testing, repair, and diagnosis of brakes, electrical system, drivetrain, engine, HVAC and steering & suspension systems, while emphasizing hands-on experience. As part of the NATEF accreditation, topics are aligned to the Maintenance and Light Repair (MLR) requirements. English language arts are reinforced. Work based learning strategies appropriate for this course include job shadowing. SkillsUSA competitive events, community service, and leadership activities provide the opportunity to apply essential standards and workplace readiness skills through authentic experiences. This course helps prepare students for the Automotive Service Excellence (ASE) certification in Maintenance Light Repair (MLR-G1). SkillsUSA competitive events, community service, and leadership activities provide the opportunity to apply essential standards and workplace readiness skills through authentic experiences. Possible Careers: Automotive Technician, Diesel Technician, Maintenance Technician

**Introduction to Carpentry and Masonry (Construction Core - IC002X00) Grade: 9-10 1 Credit**

This course covers the National Center for Construction Education and Research (NCCER) Core certification modules required for all of the NCCER curriculum-area programs. 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. 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. All modules must be passed with 70 or better to advance to Carpentry I or Masonry I. SkillsUSA competitive events, community service, and leadership activities provide the opportunity to apply essential standards and workplace readiness skills through authentic experiences. Knowledge of geometry is recommended as preparation for this course. Possible Careers: Construction Trades

**Carpentry I (IC212X00) Honors (IC215X00) Grade: 10-11 1 credit Prerequisite: Core Construction**

This course covers basic carpentry terminology and develops technical aspects of carpentry with emphasis on the development of introductory skills. English language arts and mathematics are reinforced. The course content includes understanding building materials, applying hand and power tools, understanding construction drawings, floor and wall systems, and basic stair layout. The honors level of this course will include more honed skills and more rigorous evidence of abilities. 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. This course also allows students some time to work in the shop and on small projects. Students must pass all NCCER Modules with a 70 or better to earn the NCCER credentials. Possible Careers: Project Manager, Building Contractor, Estimator

**Carpentry II Honors (IC225X00) Grade: 11-12 1 credit Prerequisite: Carpentry I  
Carpentry II and Carpentry III must be taken together.**

This course covers additional technical aspects of carpentry with emphasis on the development of intermediate skills. The course content includes ceiling joists and roof framing, introductions to concrete, reinforcing materials and forms, windows and exterior doors. English language arts and mathematics are reinforced. This course helps prepare students for National Center for Construction Education and Research (NCCER) certification. Students must make 70 or better on all NCCER Modules to earn the credentials. SkillsUSA competitive events, community service, and leadership activities provide the opportunity to apply essential standards and workplace readiness skills through authentic experiences. Possible Careers: Project Manager, Building Contractor, Estimator

**Carpentry III Honors (IC235X00) Grade: 11-12 1 credit Carpentry II and Carpentry III must be taken together.**

This course develops advanced technical aspects of carpentry with emphasis on development of skills. The course content includes roofing applications, thermal and moisture protection, exterior finishing, cold formed steel framing and drywall installations. English language arts and mathematics are reinforced. The honors level of this course will include more honed skills and more rigorous evidence of abilities. 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. Students will be provided an opportunity to earn the NCCER industry

credential by completing this series of courses. Students must make 70 or better on all NCCER Modules to earn the credentials. Possible Careers: Project Manager, Building Contractor, Estimator

**Masonry I Honors (IC115X00) Grade: 10-11 1 credit Prerequisite: Core Construction**

This course covers basic masonry terminology and develops technical aspects of masonry with emphasis on the development of introductory skills. This course introduces the nature of masonry technology, materials and supplies, and employability skills. Topics include safety, layout, tools, leveling, and plumbing, use of straight-edge, and jointing brick and block in wall construction. Mathematics and English language arts are reinforced. 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. Possible Careers: Mason, Project Manager, Building Contractor

**Masonry II Honors (IC125X00) Grade: 11-12 1 credit Prerequisite: Masonry I**

This course builds on skills mastered in Masonry I and provides advanced masonry skills including measurements, drawing and specifications, mortar, masonry units, and installation techniques. English language arts and mathematics are reinforced. The honors level of this course will include more honed skills and more rigorous evidence of abilities. 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. Possible Careers: Mason, Project Manager, Building Contractor

**Masonry III Honors (IC135X00) Grade: 11-12 1 credit Prerequisite: Masonry II and III must be taken together.**

This course develops advanced technical aspects of Masonry with emphasis on development of skills introduced in Masonry II. The course content includes residential plans and drawing interpretation, residential masonry, grout and other reinforcement, and metalwork in masonry. Introductory skills for the Crew Leader are also introduced in this course. 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. Students will be provided an opportunity to earn the NCCER industry credential by completing this series of courses. Possible Careers: Mason, Project Manager, Building Contractor

**Mechatronics I (TL422X00) Grades 10-12 1 credit**

**Recommended Prerequisites: Technology Engineering Design, Robotics I or Drafting I**

This course is designed to introduce students to the growing field of mechatronics. Mechatronics is a blending of electrical and mechanical engineering and design. It is a study of the design of "intelligent" systems in which mechanization, control, and computation are combined to achieve improved product quality and performance. This is a project-based learning/hands-on course where students act as engineers designing, analyzing, and building systems that automate industrial processes. Students will receive an introductory level on topics including workplace safety, proper use of hand tools, machinery tools, print reading, robotics, pneumatics, electrical control, basic concepts of mechanical and electrical engineering, computer-aided design (CAD), and real world applications of these concepts. Mechatronics is designed to prepare students for employment in the manufacturing industry. Possible Careers: Any Career in Advanced Manufacturing and/or Robotics including Mechanical Engineers and Electrical Engineers

**Mechatronics II (TL432X00) Grades 11-12 1 credit Prerequisite: Mechatronics I**

This is a continuation of Mechatronics I designed to build capacity and system knowledge in mechatronics. Depth of knowledge will be demonstrated through a series of projects starting with research and initial design and culminating with the completion of a build project that is geared toward solving real-world problems. Class projects can include robotics, industrial automation, industrial process control, pneumatics, and electro-mechanical systems. Activities in this course include work-based learning that connects students to industry and the local community. The focus of this program is to educate and train a new generation of students who understand both mechanical and electrical systems that make up an industrial manufacturing and robotic infrastructure. Mechatronics is designed to prepare students for employment in the manufacturing industry. Possible Careers: Any Career in Advanced Manufacturing and/or Robotics including Mechanical Engineers and Electrical Engineers

**Drafting I Honors (IC615X00) Grade: 9-11 1 credit**

This course introduces students to the use of simple and complex graphic tools used to communicate and understand ideas, concepts and trends found in the areas of architecture, manufacturing, engineering, science, and mathematics, sketching and computer assisted design (CAD) skills and techniques. Students will learn basic levels of drawing and drafting representation to create drawings. A working knowledge of geometry and daily applicable math is expected for this course. Work-based learning strategies appropriate for this course include apprenticeship, cooperative education, internship, and job shadowing. SkillsUSA competitive events provide the opportunity to apply essential standards and workplace readiness skills through authentic experiences. Students will have the opportunity to certify in AutoCAD. Drafting courses are project-based using modeling software. This course is needed to participate in upper level drafting courses. Possible Careers: Drafter, Architect, Construction Trades

**Drafting II Architectural Honors (IC625X00) Grade: 10-12 1 credit Prerequisite: Drafting I**

This course focuses on the principles and concepts of architectural design, and the use of Building Information Modeling (BIM), used in the field of architecture. An emphasis is placed on the use of 3D CAD tools in the design and execution of floor plans, foundation plans, wall sections, and elevation drawings. An understanding of 3D CAD concepts and terms, and the use of 3D CAD software, REVIT, are essential to this course, and the required method of producing finished drawings. English language arts, mathematics, and science are reinforced. A working knowledge of geometry and daily applicable math is to be expected for this course.

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. Students will have the opportunity to certify in Revit. Possible Careers: Drafter, Architect, Construction Trades

**Drafting Architecture III Honors (IC635X00) Grade: 11-12 1 credit Prerequisite: Drafting II Architectural**

Due to the rigorous content and requirements for this course, it is only offered at the honors level. This course introduces students to advanced architectural design concepts, and Building Information Modeling (BIM). Emphasis is placed on the use of 3D CAD tools in the design and execution of site and foundation plans, electrical/lighting plans, stair/railing design, bath and kitchen details, multi-level floor systems, site development, renderings and walkthroughs, as well as small commercial building and design. English language arts, mathematics, and science are reinforced. A working knowledge of geometry and daily applicable math is to be expected for this course. 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. Certifications are available to students. Possible Careers: Drafter, Architect, Construction Trades

**Drafting Engineering II Honors (IV225X00) Grade: 10-12 1 credit Prerequisite: Drafting I**

This course teaches the development of knowledge and advanced skills in Engineering Drafting and Design. An understanding of 3D CAD concepts and terms, and the use of 3D Modeling software such as INVENTOR or Solidworks, are essential to this course. Topics include advanced levels of Engineering Drafting and Design, Career Opportunities, Problem Solving, Manufacturing Processes, and 3D modeling to produce engineering drawings. Students work on a variety of real-world based projects including cross-curricular, 3D printing, and student-led innovation. This is an excellent course for any STEM learner and students are encouraged to be a member of the SkillsUSA chapter to apply and compete with their knowledge acquired in this classroom. Students interested in all levels of Engineering, Design, Computer sciences, Automotive, Manufacturing, and Fabrication are encouraged to choose this course. A working knowledge of geometry and daily applicable math is strongly recommended for this course. Students have the opportunity to certify in 3D Modeling software. Possible Careers: Drafter, Architect, Engineer

**Drafting Engineering III Honors (IV235X00) Grade: 11-12 1 credit Prerequisite: Drafting Engineering II**

This course teaches the development of knowledge and advanced skills in Engineering Drafting and Design as an extended instruction gained in Drafting 2. This course is only offered at honors level due to the rigor of the subject material covered. An understanding of 3D CAD concepts and terms, and the use of 3D CAD software such as INVENTOR or solidworks, are essential to this course. Topics include advanced levels of engineering drafting and design, employment requirements, advanced manufacturing processes, advanced 3D modeling, and creating professional level working engineering drawings. Students also focus on the necessary items to produce a work-ready, professional level portfolio of projects. Work-based learning strategies appropriate for this course include apprenticeship, cooperative education, internship, and job shadowing. This is an excellent course for any STEM learner and students are encouraged to be a member of the SkillsUSA chapter to apply and compete with their knowledge acquired in this classroom. Students interested in all levels of engineering, design, computer sciences, automotive, manufacturing, and fabrication are encouraged to choose this course. An intermediate or greater level knowledge of geometry and daily applicable math is strongly recommended for this course. Students have the opportunity to certify at the professional level of 3D modeling software. Possible Careers: Drafter, Architect, Engineer

**MILITARY SCIENCE--(JROTC – Junior Reserve Officer Training Corps)**

**These courses are high energy, physically demanding, and very structured. Once registered, students are committed to the course.**

**JROTC I A Fall (95012X0F) JROTC I B Spring (95012X0S) Grade: 9-12 1 credit each**

**Foundation:** These courses serve as the introduction to and foundation for leadership development as part of the larger JROTC program. Topics include: history and objectives of JROTC, military customs and courtesies, leadership development and drill, physical fitness instruction and application, an introduction to map reading, and other elective areas. These courses are given over two semesters and each earns one credit. Cadets must complete both courses sequentially to advance to the Leadership Education & Training (LET) II level.

**JROTC II A Fall (95022X0F) JROTC II B Spring (95022X0S)**

**Grade: 10-12 1 credit each Prerequisites: JROTC IA & IB**

**Development:** These courses serve as an intermediate level of study for the subjects introduced during the LET I year and continues to both refine prior instruction as well as introduce new topics. These include: map reading and land navigation, wellness studies and first aid training, citizenship and governance study, a broad view of the US military, and continued leadership and management instruction.

Select Cadets that demonstrate initiative, motivation, maturity, focus, and ability may be selected by the Army instructors for Cadet leadership positions. These courses are presented over two semesters and earn one credit each, and Cadets must complete both courses prior to advancing to the LET III level. Exception: Select Cadets with previously-mentioned demonstrated ability may be allowed to advance to the LET III-level early, but only with the prior approval of the Senior Army Instructor (SAI).

**JROTC III A Fall (95032X0F) JROTC III B Spring (95032X0S)**

**Grade: 11-12 1 credit each Prerequisite: JROTC II**

**Application:** These courses constitute the applied level of study for the subjects introduced during the LET I & II years, and more is expected of Cadets as they progress through the program. There is a discussion of military leadership and managerial techniques, duties of a leader, team building, the communications process, techniques of supervision, the problem solving/decision maker process, and the planning process. Cadets taking these courses will be expected to hold leadership positions within the Cadet Battalion of at least squad leader and function effectively as mentors of lower-level Cadets. Inability to function as a leader and hold said positions, or no desire to serve as a leader will result in a recommendation to the school administration for dismissal from the program for JROTC IIIB. All LET III and higher Cadets, irrespective of their rank or position within the organization, earn a routine grade based on their performance as mentors and leaders. Select Cadets that demonstrate ability may be selected to train for and serve on the Cadet Battalion Staff. These courses are presented over two semesters and earn one credit each, and Cadets must complete both courses prior to advancing to the LET IV level. Exception\*: Select Cadets with previously-mentioned demonstrated ability may be allowed to advance to the LET IV level early, but only with the prior approval of the SAI.

**JROTC IVA Fall (95042X0F) JROTC IVB Spring (95042X0S) Grade: 12 1 credit each**

**Prerequisites\*: JROTC IIIA & IIIB, and by-name selection by the SAI based on the leadership ability, self-discipline, and focus necessary for independent activity.**

**Independent Operation:** These courses require the Cadet to hold senior leadership positions on the Battalion Staff or serve as senior leaders (company or battalion levels) within the Cadet organization. Cadets will demonstrate the communications process, problem solving/decision making process, the planning process, and supervisory techniques. Cadets will prepare orders and briefings, publicly present information, and in essence “run” the Cadet Battalion with instructor supervision. It is a hands-on learning environment designed to teach Cadets about life. These courses are presented over two semesters and earn one credit each. **Honors credit is available at levels III and IV with Teacher Recommendation.**

## **PHYSICAL EDUCATION**

**Health/Physical Education (60492X00) Grade: 9 1 credit**

This required course combines the subjects of health and physical education. The health program emphasizes knowledge, skills, and attitudes that enable students to maintain mental, emotional, and physical health for life. Units on CPR and Family Planning are included. The Physical Education program focuses on participation in lifelong physical fitness activities.

**Lifetime Activities (60292X0A) Grade: 10-12 1 credit Prerequisite: Health/PE and Minimum grade of B in ALL previous PE courses**

This course is designed to promote a physically active lifestyle throughout a person’s lifetime. A variety of non-traditional sports and activities will be explored, such as: cricket, table tennis, horseshoes, Bocce, badminton, etc. A variety of non-traditional sports topics will also be explored to encourage understanding and provide opportunities for various types of involvement and participation. Concepts related to each sport will be built around the history of the sport, skill development and strategy. Topics including scorekeeping, coaching and officiating will also be included to allow students to explore various career options related to sports. This course is not focused on your traditional sports or games such as football, basketball, kickball, or dodgeball. This course is designed for every student to be able to branch out and learn lifelong games that can be played by any skill level. **This course may be repeated for credit up to 2 time**

**Weight Training (60292X0WT) Grade: 10-12 1 credit Prerequisite: Minimum grade of B in ALL previous PE courses**

This course is designed for students who are interested in increasing their athletic performance through individual effort. Weight training programs will be designed individually so that each student can succeed, however each student will be pushed mentally and physically in order to continue increasing their athletic and individual performance. This course does have a cardiovascular component included in order to promote overall health and increase athletic performance. Topics covered in this class are strength training, cardiovascular endurance, and weight room safety. Students will perform a variety of power lifts including, squat, bench press, power clean, and incline bench press. There will also be a variety of other workouts and activities done throughout the semester that will contribute to development of an intense repertoire of various exercises. Weight room safety, warm-up/cool down procedures, lifting technique and safety for all lifts, major muscle identification, and individual goal setting are all important components in this course as well.

**This course may be repeated for credit up to 2 times. Max Capacity of 25 Students due to safety concerns**

**Sports Management (60292X0SM) Grade: 11-12 1 credit**

This course is designed for students to learn how to maintain all aspects of the sports facility. Students will be required to operate machinery under supervision and perform all duties required to maintain facilities. **This course requires a Teacher Recommendation.**

#### **Female Weight Training (60292X0FWT)**

**Grade: 9-12      1 credit      Prerequisite: Minimum grade of B in ALL previous PE courses**

This course is designed for young ladies that would like to increase their athletic performance through individual effort. With females in mind Weight training programs will be designed individually so that each student can succeed, however each student will be pushed mentally and physically in order to continue increasing their athletic and individual performance. This course does have a cardiovascular component included in order to promote overall health and increase athletic performance. Topics covered in this class are strength training, cardiovascular endurance, and weight room safety. Students will perform a variety of power lifts including, squat, bench press, power clean, and incline bench press. There will also be a variety of other workouts and activities done throughout the semester that will contribute to development of an intense repertoire of various exercises. Weight room safety, warm-up/cool down procedures, lifting technique and safety for all lifts, major muscle identification, and individual goal setting are all important components in this course as well.

**Max Capacity of 25 Students due to safety concerns**

#### **Basketball Conditioning (60292X0BB)**

**Grade: 9-12      1 credit      Prerequisite: Minimum grade of B in ALL previous PE courses**

This course is designed to promote skills related to the game of basketball. Specific skills will be reinforced to promote exceptional skill development. Offensive and defensive strategies will be further explored so that the game in its entirety can be understood. Weight lifting and conditioning will be incorporated for the purpose of developing the whole athlete. This course may be repeated for a credit.

#### **Football Conditioning (60292X0FB)      Grade: 9-12      1 credit**

**Prerequisite: Minimum grade of B in ALL previous PE course**

This course is designed to promote skills related to the game of football. Specific skills will be reinforced to promote exceptional skill development. Offensive and defensive strategies will be further explored so that the game in its entirety can be understood. Weight lifting and conditioning will be incorporated for the purpose of developing the whole athlete. This course may be repeated for credit.

### **SPECIAL OFFERINGS**

#### **Library Science (96102X0L1)      Grade: 11-12      1 credit**

Students will have a leadership role when they join the Learning Commons team. Students are supervised, but must be able to work independently to perform duties and carry out responsibilities as assigned. Students will learn to ethically carry out both library and technology tasks.

#### **Professional Management & Leadership I (96102X071)      Grade: 12      1 credit**

**\*Application & approval required. Must be in good standing academically.**

This course is designed to permit students to receive advanced preparation for careers and gain invaluable skills provided by leadership opportunities. Coursework is completed through work-based learning in the school setting. This experience will assist students in furthering skills needed to be successful while promoting independence and interpersonal skills. Business etiquette and communication skills will be refined. Students are supervised, but must be able to work independently to perform duties and carry out responsibilities as assigned. Students will be evaluated and must meet all course expectations to earn course credit.

#### **English as a Second Language (ESL)      Grade: 9-12      1 credit (Teacher Placement)**

The ESL program at Davie High School is designed to assist students whose first language is not English to acquire proficiency in the English language. Students receive developmentally appropriate instruction in the areas of listening, speaking, reading, and writing. Students work on increasing vocabulary skills as well as improving reading comprehension and basic writing skills. Emphasis is made on acquiring skills necessary to function in an English speaking environment and succeed academically. Placement in ESL courses is determined by the student's need, ACCESS test scores, and teacher placement. The ESL curriculum is aligned with the WIDA content standards.

### **OCCUPATIONAL COURSE OF STUDY (Teacher Placement Courses)**

#### **Employment Preparation I Science (9260BX00)      Grade: 9      1 credit**

This course is designed to teach students skills and promote success in the areas of postsecondary education, employment, and independent living. Instructional emphasis will be placed on the application and generalization of skills to post school environments.

The Six Employability Skills adopted by NCDPI have been embedded within the competency goals and objectives throughout the course.

**Employment Preparation II Citizenship 1A and 1B (9261BX00) (9262BX00) Grade: 10 2 credits**

This course is designed to teach students skills and promote success in the areas of postsecondary education, employment, and independent living. Instructional emphasis will be placed on the application and generalization of skills to post school environments. The Six Employability Skills adopted by NCDPI have been embedded within the competency goals and objectives throughout the course.

**Employment Preparation III Citizenship 2A and 2B (9263BX00) (9264BX00) Grade: 11 2 credits**

This course is designed to teach students skills and promote success in the areas of postsecondary education, employment, and independent living. Instructional emphasis will be placed on the application and generalization of skills to post school environments. The Six Employability Skills adopted by NCDPI have been embedded within the competency goals and objectives throughout the course.

**Employment Preparation IV Math (9265BX00) Grade: 12 1 credit**

This course is designed to teach students skills and promote success in the areas of postsecondary education, employment, and independent living. Instructional emphasis will be placed on the application and generalization of skills to post school environments. The Six Employability Skills adopted by NCDPI have been embedded within the competency goals and objectives throughout the course.

**600 HOURS TOTAL ARE NEEDED FOR GRADUATION WITH A DIPLOMA**

Six Occupational Preparation Education credits, which shall be Employment Preparation I, II, III, and IV (i.e., completion of 150 hours of school-based training with work activities and experiences that align with student's post school goals, 225 hours of community-based training, and 225 hours of paid employment or 225 hours of unpaid vocational training, unpaid internship, paid employment at community rehabilitation facilities, and volunteer and/or community services hours.

**English I A (9610BX01) English I (9210BX00) 2 credits**

Students in Occupational English I will work on standard rules of convention and syntax in order to become better writers and will read a variety of text to become better readers as these skills will be needed in any 21<sup>st</sup> century workplace. They will learn to apply comprehension strategies to analyze fiction and non-fiction and apply what they have learned. Students will learn proper grammar and use oral language skills to communicate effectively in both formal and informal situations. **This is a yearlong class and the student will receive 2 credits**

**English II A (9610BX02) English II (9211BX00) 2 credits**

Students in Occupational English II will continue to analyze and employ effective oral and written communication skills in both daily living and employment situations. They will continue to read and analyze fiction and non-fiction and apply what they have learned to real life situations. Students will also continue to work on their writing skills in order to effectively communicate their thoughts and ideas. **This is a yearlong class and the student will receive 2 credits**

**English III (9212BX00) 1 credit**

Occupational English III will provide students the opportunity to read, write, and orally express their thoughts and analyze information from a variety of fiction and non-fiction text. Focus will be on applying what they have learned to situations outside of the classroom such as the workplace. They will continue working on formal and informal writing and speech.

**English IV (9213BX00) 1 credit**

Students in Occupational English IV will be given the opportunity to integrate oral, written, and visual communication skills in a variety of ways. Students will continue to read a variety of text to broaden their knowledge base and will use technology to research, enter and edit information. Focus will be on applying what they have learned previously in English in order to be successful in the workplace.

**Introduction to Mathematics (9220BX00) 1 credit**

This course involves the study of numbers and operations, geometry, measurement, algebra, statistics and probability. Students will gain mastery of curricular concepts through focusing on career readiness.

**Math I (9225BX00) 1 credit**

This course involves the study of numbers and operations, geometry, measurement, algebra, statistics and probability, and discrete math skills. Students will explore a variety of mathematical formulas and apply these to real-life scenarios.

**Financial Management (9222BX00) 1 credit**

This course involves the study and understanding of personal finances, wages, state and federal income taxes, use of credit, insurance and budgeting and consumer spending.

**Applied Science (9231BX00) 1 credit**

This course involves the study of forces and motion, energy, environment and body systems.

**Biology (9232BX00) 1 credit**

This course involves the study of living organisms, evolution, genetics, and molecular biology.

**Founding Principles of the USA and NC: Civic Literacy (9251BX00) 1 credit hour**

The standards and objectives in the Founding Principles of the United States of America and North Carolina: Civic Literacy course will provide students the opportunity to engage in intensive application of the skills, concepts, processes, and knowledge gained in previous social studies courses and prepare them to be college, career, and civic ready. Students will explore the content through the following lenses: inquiry; behavioral sciences; civics and government; economics; geography; and history. As students develop cognitively, these lenses become more focused based on the grade-level content and disciplinary thinking skills. Topics studied include citizenship and government, the foundations of American government, political parties, and federal, state, and local governments.

**Economics and Personal Finance (43192X0C) 1 credit hour**

This course will support the development of students who understand economic decisions, use money wisely, understand education and career choices, and understand how to be financially responsible citizens. Students should be provided with the agency, tools, and knowledge necessary to live in and contribute to a financially sound society. The Economics and Personal Finance (EPF) course is intended to be a study of economics, personal finance, income and education, money management, critical consumerism, and financial planning.

**Civics and Economics (9249BX00) – Class of 2021 and later 1 Credit**

This course is intended to provide students with a basic knowledge of Civics and Economics. This class provides students with practical knowledge so they may become responsible citizens. Topics include basic economic concepts, economic institutions, and evaluation of economic problems. Legal and political topics include the study of constitutional issues as they apply to the students' basic understanding of governmental concepts. Students will study the founding of the government of the United States and will gain an understanding of the philosophy and ideals of our nation's founding documents.

**Career Training (96102X0CT) Grade: 12 1 credit**

This course will assist students that have their own transportation in completing the 225 hours of integrated competitive employment that is required for completion of the Occupational Course of Study. The students will be able to leave campus during 3<sup>rd</sup> and/or 4<sup>th</sup> period in order to relocate to their competitive job site. Employer's evaluations are required, on a regular basis, in order to be issued a grade and credit for this class.

## **DISTANCE COURSES THROUGH NORTH CAROLINA SCHOOL OF SCIENCE & MATH**

The following courses are offered through the North Carolina School of Science and Math. They will be taught live by a teacher at NCSSM via a webcam in a classroom at Davie High School. A Davie High faculty member will serve as a facilitator. A \$25 consumable fee will be required with these courses, however, inability to pay should not keep a student from signing up. If the fee cannot be paid, please speak with your student's counselor.

**Honors Forensic Science (30205X0) Grade: 10-12 1 credit**

**Prerequisite: Biology, Math 3, and a grade of "A" in a previous English course**

This course focuses on the application of basic biological, chemical and physical science principles, and technological practices as it relates to judicial and civil issues. It includes the investigation of fingerprinting, fiber analysis, ballistics, arson, trace evidence analysis, poisons, drugs, blood spatters, and blood samples. In addition, students must incorporate the use of technology, communication skills, language arts, art, family and consumer science, mathematics, and social sciences. Good writing skills are imperative. Through online lessons, virtual and hands-on labs, and analysis of fictional crime scenarios, students learn about forensic tools, technical resources,



forming and testing hypotheses, proper data collection, and responsible conclusions. Because of potential graphic material in some of the modules, parents are asked to sign a permission slip.

**Honors Genetics & Biotechnology (33605X0) Grade: 9-12 1 credit**

**Prerequisite: Math 3 and Biology with a grade of B or higher**

What do crime scene investigations, agriculture, medicine, conservation biology and manufacturing have in common? They have all been revolutionized by biotechnology! Almost every day we read about new developments in the rapidly changing fields of genetics and DNA-based biotechnology. In this course, students will first explore classical genetics and then move onto examining the structure and function of DNA and proteins. With state-of-the-art laboratory experiments, students will analyze DNA fingerprints from a crime scene, genetically transform bacteria and investigate their own DNA! Finally, they will survey the applications of biotechnology in many diverse fields and discuss in depth how biotechnology is changing our daily lives and our future. With the decline of traditional manufacturing in North Carolina, biotechnology is positioned to become a vital part of North Carolina's 21st century economy.

**Honors Global Public Health & Infectious Disease (60195X0) Grade: 10-12 1 credit**

**Prerequisite: A grade of "A" in a previous English course**

This course provides an introduction to a range of topics and issues in public health with an emphasis on global public health. Some possible topics of discussion include the health and welfare of women and children in low-income countries, the impact of emerging and re-emerging infectious diseases across the globe, food insecurity and malnutrition, demographic transition and immigration, global fertility and mortality, the stigma of mental health, and occupational health. This course will also address a number of impactful case studies and controversies in health and biomedical ethics. As public health relies on a number of systems in order to serve diverse populations across the globe, this course will take a systems thinking and modeling approach, using authentic performance assessments with students working in teams to apply concepts learned throughout the term. This interdisciplinary course requires complex reasoning and critical thinking skills, extensive use of technology, communication and problem-solving skills. Strong writing skills are imperative.

**Career and College Promise (CCP)**

**Complete CCP course descriptions can be found in the DDCC General Catalog under the course descriptions section.**

**<https://catalog.davidson-davie.edu/>**

**ENG 111 Writing and Inquiry (CAA) Grade: 11-12 1 credit**

This course is designed to develop the ability to produce clear writing in a variety of genres and formats using a recursive process. Emphasis includes inquiry, analysis, effective use of rhetorical strategies, thesis development, audience awareness, and revision. Upon completion, students should be able to produce unified, coherent, well-developed essays using standard written English.

**ENG 112 Writing and Research in the Disciplines (CAA) Grade: 11-12 1 credit**

This course, the second in a series of two, introduces research techniques, documentation styles, and writing strategies. Emphasis is placed on analyzing information and ideas and incorporating research findings into documented writing and research projects. Upon completion, students should be able to evaluate and synthesize information from primary and secondary sources using documentation appropriate to various disciplines. Semester Offered: All

**ENG-241 British Literature I (CAA) Grade: 11-12**

This course covers selected works in British literature from its beginnings to the Romantic Period. Emphasis is placed on historical background, cultural context, and literary analysis of selected prose, poetry, and drama. Upon completion, students should be able to interpret, analyze, and respond to literary works in their historical and cultural contexts. Semester Offered: Fall and Spring

**Students who take ENG 111, ENG 112 and ENG 241 may satisfy the ENG IV graduation requirement.**

**HIS 131 American History I (CAA) Grade: 11-12 1 credit**

This course is a survey of American history from pre-history through the Civil War era. Topics include the migrations to the Americas, the colonial and revolutionary periods, the development of the Republic, and the Civil War. Upon completion, students should be able to analyze significant political, socioeconomic, and cultural developments in early American history.

**HIS 132 American History II (CAA) Grade: 11-12 1 credit**

This course is a survey of American history from the Civil War era to the present. Topics include industrialization, immigration, the Great Depression, the major American wars, the Cold War, and social conflict. Upon completion, students should be able to analyze significant political, socioeconomic, and cultural developments in American history since the Civil War.

**COM 231 Public Speaking (CAA) Grade 11-12 1 credit Prerequisite: ENG 111**

This course provides instruction and experience in preparation and delivery of speeches within a public setting and group discussion. Emphasis is placed on research, preparation, delivery, and evaluation of informative, persuasive, and special occasion public speaking.

Upon completion, students should be able to prepare and deliver well-organized speeches and participate in group discussion with appropriate audiovisual support.

**PSY 150 General Psychology (CAA) Grade 11-12 1 credit**

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.

**SOC 210 Introduction to Sociology (CAA) Grade 11-12 1 credit**

This course introduces the scientific study of human society, culture, and social interactions. Topics include socialization, research methods, diversity and inequality, cooperation and conflict, social change, social institutions, and organizations. Upon completion, students should be able to demonstrate knowledge of sociological concepts as they apply to the interplay among individuals, groups, and societies.

**MAT 152 Statistical Methods I (CAA) Grade 11-12 1 credit**

This course provides a project-based approach to introductory statistics with an emphasis on using real-world data and statistical literacy. Topics include descriptive statistics, correlation and regression, basic probability, discrete and continuous probability distributions, confidence intervals and hypothesis testing. Upon completion, students should be able to use appropriate technology to describe important characteristics of a data set, draw inferences about a population from sample data, and interpret and communicate results.

**MAT-171 Precalculus Algebra (CAA) Grade 11-12 1 credit**

This course is designed to develop topics which are fundamental to the study of Calculus. Emphasis is placed on solving equations and inequalities, solving systems of equations and inequalities, and analysis of functions (absolute value, radical, polynomial, rational, exponential, and logarithmic) in multiple representations. Upon completion, students should be able to select and use appropriate models and techniques for finding solutions to algebra-related problems with and without technology.

**MUS 110 Music Appreciation (CAA) Grade 11-12 1 credit**

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.

**ART 111 Art Appreciation (CAA) Grade 11-12 1 credit**

This course introduces the origins and historical development of art. Emphasis is placed on the relationship of design principles to various art forms including but not limited to sculpture, painting, and architecture. Upon completion, students should be able to identify and analyze a variety of artistic styles, periods, and media.

**BIO-111 General Biology I (CAA) Grade 11-12 1 credit**

This course introduces the principles and concepts of biology. Emphasis is placed on basic biological chemistry, molecular and cellular biology, metabolism and energy transformation, genetics, evolution, and other related topics. Upon completion, students should be able to demonstrate understanding of life at the molecular and cellular levels. Semester Offered: All

**WLD 110 Cutting Processes Grade 11-12 1 credit**

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 Grade 11-12 2 credits**

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 Grade 11-12 1 credit**

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 122 GMAW (MIG) Plate/Pipe Grade 11-12 1 credit Prerequisite: WLD 121**

This course is designed to enhance skills with the gas metal arc (MIG) welding process. Emphasis is placed on advancing skills with GMAW process making groove welds on carbon steel plate and pipe in various positions. Upon completion, students should be able to perform groove welds with prescribed electrodes on various joint geometry.

**WLD 131 GTAW (TIG) Plate                      Grade 11-12                      1 credit**

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                      Grade 11-12                      1 credit**

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.

**CJC 111 Introduction to Criminal Justice (CAA)                      Grade 11-12                      1 credit**

This course introduces the components and processes of the criminal justice system. Topics include history, structure, functions, and philosophy of the criminal justice system and their relationship to life in our society. Upon completion, students should be able to define and describe the major system components and their interrelationships and evaluate career options.

**CJC 112 Criminology                      Grade 11-12                      1 credit**

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                      Grade 11-12                      1 credit**

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 141 Corrections (CAA) Grade 11-12                      1 credit**

This course covers the history, major philosophies, components, and current practices and problems of the field of corrections. Topics include historical evolution, functions of the various components, alternatives to incarceration, treatment programs, inmate control, and other related topics. Upon completion, students should be able to explain the various components, processes, and functions of the correctional system.

**CJC 131 Criminal Law                      Grade 11-12                      1 credit**

This course covers the history/evolution/principles and contemporary applications of criminal law. Topics include sources of substantive law, classification of crimes, parties to crime, elements of crimes, matters of criminal responsibility, and other related topics. Upon completion, students should be able to discuss the sources of law and identify, interpret, and apply the appropriate statutes/elements.

**CJC 132 Court Procedure & Evidence Grade 11-12                      1 credit**

This course covers judicial structure/process/procedure from incident to disposition, kinds and degrees of evidence, and the rules governing admissibility of evidence in court. Topics include consideration of state and federal courts, arrest, search and seizure laws, exclusionary and statutory rules of evidence, and other related issues. Upon completion, students should be able to identify and discuss procedures necessary to establish a lawful arrest/search, proper judicial procedures, and the admissibility of evidence.

**NAS 101 Nurse Aide I                      Grade 11-12                      1 credit**

This course includes basic nursing skills required to provide safe, competent personal care for individuals. Emphasis is placed on person-centered care, the aging process, communication, safety/emergencies, infection prevention, legal and ethical issues, vital signs, height and weight measurements, elimination, nutrition, basic restorative care/rehabilitation, dementia, mental health and end-of-life care. Upon completion, students should be able to demonstrate knowledge and skills and be eligible to test for listing on the North Carolina Nurse Aide I Registry.

**NAS 106 Geriatric Aide                      Grade 11-12                      1 credit**

This course is designed to enhance the knowledge of the Nurse Aide I providing care to the aging population. Emphasis is placed on the person-centered care, stress management, health promotion, dementia/challenging behaviors, mental health issues, and end-of-life/palliative care. Upon completion, students should be able to demonstrate knowledge and provide safe care for the aging population and are eligible to be listed on the North Carolina Geriatric Nurse Aide registry.

**PHM 110 Introduction to Pharmacy                      Grade 12                      1 credit**

This course introduces pharmacy practice and the technician's role in a variety of pharmacy settings. Topics include medical terminology and abbreviations, drug delivery systems, law and ethics, prescription and medication orders, and the health care system. Upon completion, students should be able to explain the role of pharmacy technicians, read and interpret drug orders, describe quality assurance, and utilize pharmacy references.

**PHM 115 Pharmacy Calculations      Grade 12   1 credit**

This course provides an introduction to the metric, avoirdupois, and apothecary systems of measurement and the calculations used in pharmacy practice. Topics include ratio and proportion, dosage determinations, percentage preparations, reducing and enlarging formulas, dilution and concentration, aliquots, specific gravity and density, and flow rates. Upon completion, students should be able to correctly perform calculations required to properly prepare a medication order.

**PHM 120 Pharmacology I      Grade 12   1 credit**

This course introduces the study of the properties, effects, and therapeutic value of the primary agents in the major drug categories. Topics include nutritional products, blood modifiers, hormones, diuretics, cardiovascular agents, respiratory drugs, and gastrointestinal agents. Upon completion, students should be able to place major drugs into correct therapeutic categories and identify indications, side effects, and trade and generic names.

**PHM 125 Pharmacology II      Grade 12   1 credit****Prerequisite: PHM 120**

This course provides a continuation of the study of the properties, effects, and therapeutic value of the primary agents in the major drug categories. Topics include autonomic and central nervous system agents, anti-inflammatory agents, and anti-infective drugs. Upon completion, students should be able to place major drugs into correct therapeutic categories and identify indications, side effects, and trade and generic names.

**MED 121 Medical Terminology I\*      Grade 12   1 credit**

This course introduces prefixes, suffixes, and word roots used in the language of medicine. Topics include medical vocabulary and the terms that relate to the anatomy, physiology, pathological conditions, and treatment of selected systems. Upon completion, students should be able to pronounce, spell, and define medical terms as related to selected body systems and their pathological disorders. Semester Offered: Fall

**MED 122 Medical Terminology II\*      Grade 12   1 credit**

This course is the second in a series of medical terminology courses. Topics include medical vocabulary and the terms that relate to the anatomy, physiology, pathological conditions, and treatment of selected systems. Upon completion, students should be able to pronounce, spell, and define medical terms as related to selected body systems and their pathological disorders. Semester Offered: Spring

**EMS 110 EMT      Grade 12   1 credit**

This course introduces basic emergency medical care. Topics include preparatory, airway, patient assessment, medical emergencies, trauma, infants and children, and operations. Upon completion, students should be able to demonstrate the knowledge and skills necessary to achieve North Carolina State or National Registry EMT certification. Prerequisite – Health Science I or Anatomy and Physiology. Semester Offered: Both semesters on Davie High School campus.

**Firefighter Training I      Grade 12   1 credit**

This is a Career and College Promise course taught by Davidson County Community College instructors on the Davie High campus. This course is part of a three-block series as part of the NC Firefighter Certification program. Topics will include: Orientation and Safe, Health & Wellness, Fire Behavior, Personal Protective Equipment, Fire Hose, Streams & Appliance and Emergency Medical Care. This course will be offered during the Spring 2021 semester only. Students must be at least 16 years old and have an unweighted 2.8 gpa or principal waiver to be eligible. Students are responsible for textbooks and protective gear.

**BIO 163 Basic Anatomy and Psychology      Grade 12   1 credit**

This course provides a basic study of the structure and function of the human body. Topics include a basic study of the body systems as well as an introduction to homeostasis, cells, tissues, nutrition, acid-base balance, and electrolytes. Upon completion, students should be able to demonstrate a basic understanding of the fundamental principles of anatomy and physiology and their interrelationships. Semester Offered: Fall and Spring

**STP 101 Intro to Sterile Processing      Grade 12   1 credit**

This course is designed to introduce the primary responsibilities of a central sterile technician. Emphasis is placed on preparation, storage, and distribution of instruments, supplies and equipment, quality assurance, inventory management, and basic biological sciences. Upon completion, students should be able to demonstrate competence in sterile processing techniques and be able to utilize the appropriate medical terminology as it relates to the Sterile Processing Technician. Semester Offered: Fall

**STP 102 Clinical Practice      Grade 12   1 credit**

This course provides supervised experience in sterile processing techniques in a clinical facility. Emphasis is placed on preparation, storage, and distribution of instruments, supplies and equipment, quality assurance, and inventory management. Upon completion, students should be able to demonstrate competence in sterile processing techniques. Semester Offered: Spring

**STP 103 Professional Success Prep      Grade 12   1 credit**

This course provides job-seeking skills and an overview of theoretical knowledge in preparation for certification. Topics include test taking strategies, resume preparation, and interviewing techniques. Upon completion, students should be able to prepare a resume, demonstrate appropriate interview techniques, and identify strengths and weaknesses in preparation for certification. Semester Offered: Spring