

Tuscola High School

Course of Studies 2014-2015



Graduation Requirements
Course Standards
Driver's License Requirements

Class Selections

- I.. Core Classes
- II. Foreign Languages
- III. Health & Physical Education
- IV. The Arts
- V. Career Technical Classes

**TUSCOLA HIGH SCHOOL
564 TUSCOLA SCHOOL ROAD
WAYNESVILLE, NC 28786**

**Counselors:
Kari Francoeur
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Policy Statement

It is the policy of this high school not to discriminate on the basis of sex, race, color, religion, or national origin.

Introduction

The purpose of this guide is to help you and your parents make better decisions concerning your course selections for the coming year. Each class that a student chooses should be a part of an overall plan. Perhaps a student has a certain career in mind; perhaps he/she is exploring different fields to help in selecting a vocation. He/She may be preparing for college or developing interest in one of the fine arts areas or other creative activities. A student should select courses that best suit his/her abilities and interests.

A student's participation in a particular subject area should be based on a combination of logical and sequential courses of study, which lead to the desired objectives.

Read this guide carefully and discuss your plans with your parents. It is essential that a student think seriously about a particular subject before scheduling it. Students and their parents assume full responsibility for courses scheduled. **Though school personnel will attempt to locate and correct any errors, it is the students' and their parents' responsibility to select the courses, keep copies of records and plan their schedule to meet all requirements for graduation.** A student will not be allowed to shuttle between teachers and courses once he/she has been placed in the course. Because the administration must plan for the next school year based on the subjects selected now, students cannot change selections after registration is complete unless one of the following criterion is met:

1. incorrect placement
2. meeting graduation requirements,
3. balancing of classes and protection of the integrity of the master schedule.

The courses listed in this book are subject to change.

**SPECIAL NOTES ABOUT
CLASS REQUIREMENTS**

End of Course Tests

A student cannot drop any class with an EOC test following the twentieth (20th) day of school. At Tuscola, classes with an EOC test are: English II, Math 1, and Biology.

Foreign Language

Skipping a level of Foreign Language assumes a student's commitment to pursue the language through the highest level.

Physical Education

Freshmen, Sophomores and Juniors will not be allowed to take more than one physical education class per year.

Block Classes

All classes taught for two consecutive periods will receive 2 units of credit. These classes include: AHS II, Welding II and III, Masonry II and III, CET I and II.

Fees

Many classes have required fees for participation in all aspects of the class. Please see your teacher if you have financial concerns.

**E-Learning Opportunities in North Carolina
North Carolina Virtual Public High School (NCVPS)**

Website:

<http://www.ncvps.org>

Definition :

Provides high school courses to public school students who want to complete courses to meet the requirements of a high school diploma and to enhance their transcripts for college applications.

Purpose:

Provides high school credit.

Credit

High school credit recorded on transcript; AP courses are available for college credit provided student scores required score on the AP exam.

Course Instructor:

Teachers who teach for NCVPS have either a North Carolina teaching license or masters degree in their subject area (exception: foreign language teachers may hold a baccalaureate degree)

Courses:

AP Art History, AP Computer Science A, AP Government and Politics US, AP Human Geography, AP Music Theory, AP Psychology, AP World History, Psychology Honors (Block)*, African American Studies (Block)*, Leadership Development (Block)*, Medieval Studies (Block)*, Psychology (Block)*, Arabic I (Block)*, Russian I (Block)*, Japanese I (Block)*, Latin I (Block)*, Mandarin Chinese Language and Culture I (Block)*, German I (Block)*, Anatomy and Physiology Honors (Block)*

*Block classes take two periods, so you will be in the computer lab for two hours a day. You must enroll in a different course in the Spring semester.

Online classes are only available to juniors and seniors.

Let your counselor know if you would like to sign up for an online class.

GRADUATION REQUIREMENTS

Future Ready Course of Study (Freshmen entering 2009 & beyond)

<u>Subject</u>	<u>Credits</u>
English	4
<i>(English I, English II, English III, English IV)</i>	
Mathematics	4
<i>(Algebra I, Geometry, Algebra II, Additional Math)</i>	
Science	3
<i>(Earth/Env., Biology, A Physical Science Course)</i>	
Social Studies	3
<i>(Freshman entering before 2012—World History, Civics & Economics, US History)</i>	
Social Studies	4
<i>(Freshmen entering 2012 and beyond—World History, American History I & II, and Civics & Economics)</i>	
Health & PE Ed	1
Electives	6
<i>(or other Requirements)</i>	
<i>2 Elective credits of any combination from either</i>	
<i>Career and Technical Education</i>	
<i>Arts Education</i>	
<i>Second Language</i>	
<i>4 Elective credits (four course concentration)</i>	
<i>Career and Technical Education</i>	
<i>Arts Education</i>	
<i>ROTC</i>	
<i>Any other subject area (e.g. mathematics, science, social studies, English)</i>	

Second Language

2 credits required to meet minimum application requirements for UNC

Occupational Course of Study

(This course of study shall be made available for certain students with disabilities who have an IEP.)

<u>Subject</u>	<u>Credits</u>
English	4
(Occupational English I, II, III, IV)	
Mathematics	3
(Occupational Math I, II, III and one must be successfully completed in the senior year)	
Social Studies	2
(Government/U.S. History and Self-Advocacy/ Problem Solving)	
Science	2
(Biology)	
Health and P.E.	1
Occ. Prep. Ed.	6
(Occ.Prep. I, II, III, IV, 240 hours of community-based training and 360 hours of paid employment)	
Career/Technical	4
(career/technical education electives)	
Electives	2
Total	24 (28 possible credits)

PROGRAM CONSTRAINTS

1. No student will be permitted to register for a load of less than 7 courses at Tuscola High School unless he or she has special permission from the principal.
2. Students will not be allowed to take more than one English course during the regular school day. Initial enrollment in a high school English course will not be allowed outside the regular school day. All exceptions will be handled by the high school principal.
3. Transfer student's and foreign exchange student's transcripts will be reviewed by school committee and principal before enrollment is allowed.

EXIT DOCUMENTS

1. **Merit Diploma** – Granted to students who satisfy all state and local graduation requirements, whose rank is in the top ten percent of the graduating class and have a score on the SAT or the ACT which is higher than the “national average” for the previous year.
2. **Diploma** – For students who satisfy all state and local graduation requirements.

CRIMINAL JUSTICE IV

Prerequisite: Criminal Justice III

Class availability: 12th Grade

Taught online or at Haywood Community College

In these courses students are introduced to the ethical standards of the criminal justice system and the impact of the United States Constitution on the criminal justice system. Upon completion students should be able to discuss the structure of the constitution and the ethical standards as they are applied to the criminal justice process. **Successful completion of CJ III results in 6 college credits.** Successful completion of all CJ III and CJ IV courses results in a ***Certificate in Criminal Justice Technology III & IV*** and 12 college credits. **This course is taught online through Haywood Community College. Students taking the courses at Haywood Community College must provide their own transportation.**

ELECTRONICS I

Class availability: 11th or 12th Grade

Taught at Haywood Community College

Introduces DC and AC electricity with an emphasis on circuit analysis, measurement, and operation of test equipment. Introduces characteristics and applications of semiconductor devices and circuits. Introduces digital electronics topics of combinational and sequential logic circuits. Emphasis is on developing hands-on ability to construct, analyze, verify and troubleshoot. Successful completion of all Electronics I courses results in a ***Certificate of Electronics Engineering Technology*** and 13 college credits. **Students must provide own transportation.**

CRIMINAL JUSTICE I 7899U1

Class availability: 11th, and 12th Grade

Taught at Tuscola High School (online)

These courses provide an introduction to the components and processes of the criminal justice system and deviant behavior as it relates to criminal activity. Topics include police, courts, corrections and theories, history, and principles of crime causation. Upon completion students should be able to define and describe these major components, their functions, interrelationships, career options, functions and jurisdictions. **This course is taught online through Haywood Community College. Successful completion of CJ I results in 6 college credits.**

CRIMINAL JUSTICE II 7899U2

Prerequisite: Criminal Justice I

Class availability: 11th, and 12th Grade

Taught at Tuscola High School (online)

These courses introduce the juvenile justice system and fundamental elements of criminal law. Topics include the characteristics of policing, courts, and corrections related to the juvenile justice system and contemporary applications of criminal law. Upon completion, students should be able to explain theories of crime, sources of law, interpret and apply law in appropriate situations. Successful completion of all CJ I and II courses results in a ***Certificate of Criminal Justice Technology I & II*** and 12 college credits. **This course is taught online through Haywood Community College. Successful completion of CJ III results in 6 college credits.**

CRIMINAL JUSTICE III

Prerequisite: Criminal Justice II

Class availability: 12th Grade

Taught online or at Haywood Community College

These courses introduce the fundamentals of law enforcement and corrections operations. Upon completion, students should be able to explain the practices, issues, components, process, and functions related to law enforcement operations and the correctional system. **Successful completion of CJ III results in 6 college credits. This course is taught online through Haywood Community College. Students taking the courses at Haywood Community College must provide their own transportation.**

North Carolina Academic Scholars

The North Carolina Academic Scholars Program is an effort to recognize those students who have excelled in academics. The students who meet these criteria will be recognized in the graduation program and will receive a gold seal on their diploma.

GPA: 3.5 Unweighted

CREDITS	The following designated number of credits per subject area listed below <u>must</u> be taken in grades 9-12.
4	English Language Arts I, II, III, IV
4	Mathematics (should include Algebra I, Algebra II, Geometry, and a higher level math course with Algebra II as prerequisite OR Integrated Mathematics I, II, III, and a higher level mathematics course with Integrated Mathematics III as prerequisite)
3	Science (Earth & Environmental Science, Biology, and a Physics or Chemistry course.)
3	Social Studies (World History, Civics & Economics, and U.S. History)
4	Beginning 2012 (World History, Civics & Economics, and American History I & American History II)
1	Healthful Living / PE
2	Two (2) elective credits in a second language required for the UNC System. They should be in the same language.
4	Four (4) elective credits constituting a concentration recommended from one of the following: Career & Technical Education (CTE), JROTC, Arts/Music Education, or any other subject areas.
3	Higher level courses taken during the Junior &/or Senior years which carry 5 or 6 quality points such as: AP, IB, Dual or college equivalent course, advanced CTE, CTE credentialing courses, Online courses, or other honors or above designated courses.

STUDENT ACCOUNTABILITY POLICY

Decisions made concerning students' promotion and high school course credit should be based on classroom performance, grades, performance on tests, completion of tasks, attendance and teacher observation. Each student should be evaluated objectively as an individual. The school principal has the ultimate responsibility regarding promotion and retention decisions in accordance with Public School Law 115C-288(a).

I. High School Test Standards

1. In determining final grades for the term a true numerical average will be used for report card purposes. Final grades for the transcript will be posted as numerical grades.
2. Final exams will be administered in all courses.
3. State mandated End-of-Course Tests, CTE, Post Assessments, North Carolina Final Exams and local mandated-exams administered during the testing window as determined by the State will count 25% of the course grade.
4. No student is exempt for the State mandated End-of-Course tests, CTE Post Assessments, and North Carolina Final Exams. A student may be exempt from locally mandated exams when he/she meets criteria specified in school-developed Exam Plans

II. High School Promotion Requirements

1. To enter the tenth grade, a student must have earned a minimum of five (5) units of credit, one of which must have been earned in English.
2. To enter the eleventh grade, a student must have earned a minimum of ten (10) units of credit. Two of these credits must be in English.
3. To enter the twelfth grade, a student must have earned a minimum of seventeen (17) units of credit. Two of these units must be in English and it must be possible for all other graduation requirements to be met during the upcoming year.

DRIVER'S LICENSE REQUIREMENTS

According to North Carolina legislation, a student must have a Driving Eligibility Certificate in order to receive a North Carolina driver's permit or license. This certificate will be issued upon completion of the Driver's Education course and with evidence of the student's adequate academic progress. The Division of Motor Vehicles (DMV) will not issue a driver's permit or license without a Driving Eligibility Certificate

Adequate academic progress means that a student must pass 5 out of 7 courses each semester. Adequate academic progress is evaluated at the end of each semester. A student who does not meet this criterion or who drops out of school will be reported to the DMV and will have his permit or license revoked.

AUTO REPAIR I 8999U3

Class Availability: 11th Grade

Taught at Haywood Community College

This course introduces the proper procedures for using automotive refinishing equipment and materials in surface preparation and application. This course also provides an in-depth study of structural damage analysis and repairs to vehicles that have received moderate to heavy structural damage. Successful Completion of Auto Repair I results in a ***Certificate of Introductory Collision Repair and Refinishing*** and 13 college credits. **Students must provide own transportation.**

*AUTO REPAIR II 8999U4

Prerequisite: Auto Repair I

Class Availability: 12th Grade

Taught at Haywood Community College

This course covers advanced painting techniques and technologies with an emphasis on identifying problems encountered by the refinishing technician. Topics include materials application, color matching, correction of refinishing problems, and other related topics. Upon completion, students should be able to perform spot, panel, and overall refinishing repairs and identify and correct refinish problems. Successful Completion of Auto Repair II results in a ***Certificate of Intermediate Collision Repair and Refinishing*** and 13 college credits. **Students must provide own transportation. Students must provide own transportation.**

MACHINING I 7899UM1

Class availability: 11th and 12th graders

Taught at Haywood Community College

This course introduces machining operations as they relate to the metalworking industry. Topics include machine shop safety, lathes, drilling machines, saws, milling machines, bench grinders, and layout instruments. Upon completion, students should be able to safely perform the basic operations of layout, drilling, sawing, turning, and milling. This course additionally introduces the care and use of precision measuring instruments. Emphasis is placed on the inspection of machine parts and use of a wide variety of measuring instruments. Upon completion, students should be able to demonstrate the correct use of measuring instruments. **Successful completion of Machining I results in 12 college credits. Students must provide own transportation.**

MACHINING II 7899UM2

Class availability: 12th Grade

Taught at Haywood Community College

This course will complement Machining I with more depth. **Successful completion of Machining II results in 12 college credits.** Successful completion of all Machining I and II courses will result in ***Certificates of Computer-Integrated Machining and Advanced Computer-Integrated Machining*** and 24 college credits. **Students must provide own transportation.**

ENRICHMENT ELECTIVES

PEER HELPING

Class Availability: 11th Grade, 12th Grade

Prerequisites: Permission of Assistant Principal through application and selection process

Students in this course will work to provide a variety of services to their peers and to the school staff. Students will be assigned to the main office or guidance office at Tuscola and will provide a variety of services tailored to their individual area of assignment. This class earns a student one pass/fail elective credit.

PEER TUTORING

Class Availability: 11th Grade, 12th Grade

Prerequisites: Permission of Assistant Principal through application and selection process

Students in this course will be assigned as an aide to Special Education classrooms. Peer helpers must be reliable, independent, and able to work well with handicapped peers. This class earns a student one pass/fail elective credit.

HAYWOOD COMMUNITY COLLEGE CLASSES

The following offered classes are known as “Career and College Prep Classes”. These classes offer Tuscola High School students the opportunity to earn both high school and community college credit at the same time. A student will receive one unit of high school credit for each class or two units of high school credit for each block of time. Students will also receive appropriate community college credit for these classes.

AUTOMOTIVE TECHNOLOGY I 8999U1

Class Availability: 11th grade

Taught at Haywood Community College

Emphasis on the development of skills introduced in Automotive Technology I. Specific instruction will be given in measuring, internal combustion engine theory, automotive serving and preventive maintenance, brake repair, electrical systems, troubleshooting, and the proper use of test equipment. This course is taught at Haywood Community College. **Successful completion of Automotive Technology I results in 13 college credits. Students must provide own transportation .**

AUTOMOTIVE TECHNOLOGY II 8999U2

Class Availability: 12th Grade

Taught at Haywood Community College

Emphasis on the development of skills introduced in Automotive Technology I. Specific instruction will be given in measuring, internal combustion engine theory, automotive serving and preventive maintenance, brake repair, electrical systems, troubleshooting, and the proper use of test equipment. This course is taught at Haywood Community College. **Successful completion of Automotive Technology II results in 13 college credits.** Successful completion of all Automotive Tech I and II courses results in a *Certificates of Automotive Systems Technology (Introduction) and Automotive Systems Technology (Intermediate)* and 26 college credits. **Students must provide own transportation .**

GRADE POINT AVERAGE & CLASS RANK

To encourage students to take challenging courses, which prepare them for college, technical schools, and the demands of the work place, Haywood County Schools provide weighted courses. Course grades are reported in two ways: unweighted based on equal points for every class and weighted based on an extra point for selected rigorous courses. According to policy, weighted grades are used in determining class rank and, therefore, for Junior Marshall and Honors Graduate status. Weighted courses include Honors, Advanced, and Advanced Placement (AP) courses, which are taught at an advanced level. Students and parents should understand that considerable work and study are required, that high grades are more difficult to achieve, and that the level of the course cannot be modified for students lacking skills or preparation. The following scale applies to unweighted / weighted courses:

<u>Unweighted Courses</u>	<u>Honors/Advanced</u>	<u>Advanced Placement</u>
A=4 points	A=5 points	A=6 points
B=3 points	B=4 points	B=5 points
C=2 points	C=3 points	C=4 points
D=1 point	D=2 points	D=3 points
F=0 points	F=0 points	F=0 points

Advanced Placement (AP) courses are taught at a college level; students in AP courses will take the AP exam in May.

Classes Which Carry Extra Points

5 Point Classes

English I, II, III, IV Honors	Advanced Math (Pre-Calculus)
Math III Honors	Math II Honors
Biology II Honors	Advanced Physics
Chemistry II Honors	Biology Honors
Spanish III, IV, V Honors	French III, IV Honors
Visual Arts III Honors	Visual Arts (Advanced)
Band (Proficient)	Band (Advanced)
Honors Discrete Math	Honors Calculus
Turning Points In American History	
Special Social Studies (Formerly—U.S. & World Affairs Since WW II)	
NCVPS Online Courses	

6 Point Classes

AP English III, IV	AP Environmental Science
AP Calculus	AP U.S. History
AP Biology	AP Spanish
AP Statistics	NCVPS AP Courses

COURSE SELECTIONS

ENGLISH

ENGLISH I

This course provides a foundational study of literary genres including novels, short stories, poetry, drama (including one Shakespeare play), and nonfiction (including influential U.S. documents). Goals include those required on the Common Core Curriculum Standards with a strong emphasis on reading, writing, research, speaking and presentation of information, utilization of technology to research and presentation, cooperative problem solving, career / college readiness skills, and reading texts of appropriate complexity levels to enhance learning.

ENGLISH I HONORS

Prerequisites: Application Course (Please See Application)

Summer Reading Required

This course provides a foundational study of literary genres including novels, short stories, poetry, drama, and nonfiction. Students will read a variety of increasingly complex texts including influential U.S. documents and a Shakespeare play. Literary analysis and use of rhetorical devices are emphasized as well as the development of arguments, informative / explanatory texts, and narratives with emphasis on the conventions of Standard English grammar. Students will use technology effectively for a variety of tasks including research and presentations. Weekly vocabulary study will include college level words. Emphasis will be placed on career / college readiness, development of competent speaking and writing styles, and collaboration with others to problem solve and enhance learning opportunities to fulfill the guidelines listed in the Common Core Curriculum Standards.

ENGLISH II

Prerequisites: English I

EOC Course

English II focuses on literary global perspectives and concepts using literature from Africa, Asia, Oceania, Eastern Europe, the Middle East, and the Americas. Goals include those required in the Common Core standards with a strong emphasis on reading, writing, research, speaking and presentation of information, for utilization of technology research and presentation, cooperative problem solving, career/college readiness skills, and reading texts of appropriate complexity levels to enhance learning. In addition to the variety of global texts, students will read a Shakespeare play and examine influential U.S. documents.

ROTC III

Prerequisite: Completion of ROTC I & II

Required Fee: \$60.00

Class Availability: 11th Grade, 12th Grade

AS-III is comprised to two major parts: Aerospace Science (AS) and Leadership Education (LE). The AS portion will cover a broad range of selected Astronomy and Exploration of Space. The LE portion will cover Life Skills, including how to begin post-high school job searches, college preparation, scholarship resources, and financial planning. The LE portion also includes a survey of fundamental practical legal and citizenship knowledge required after high school including contracts, wills, leases, warranties, voting and jury duty. Sequencing of AS and LE academics may be modified (within established AFJROTC curriculum policy guidelines) to accommodate AS-1 through AS-4 class scheduling constraints. Tuesday will be devoted to health and wellness to include physical training (PT).

ROTC IV*

Credit: 1 Unit

Prerequisite: Completion of ROTC I, II, & III

Required Fee: \$60.00

Class Availability: 12th grade

AS-IV represents the capstone course in the AFJROTC curriculum.

AS-IV is comprised of two major parts: Aerospace Science (AS) and Leadership Education (LE). This course's Aerospace Science material will cover Aerospace Policy and Organization. Other options include Survival fundamentals, or Global and Cultural Studies. Leadership Education will cover Principles of Management. Sequencing of AS and LE academics may be modified (within established AFJROTC curriculum policy guidelines) to accommodate AS-1 through AS-4 class scheduling constraints. **Corps Management: hands-on cadet corps leadership and management (Cadet Corps Staff only).** Students serving on cadet corps staff will utilize the leadership skills they have mastered through previous AFJROTC courses to lead, manage, and operate the cadet corps and conduct training of underclass cadets. Tuesday will be devoted to health and wellness to include physical training (PT).

MISCELLANEOUS

LIBRARY/MEDIA ASSISTANT

Application required

Class Availability: 11th and 12th Grade

In this class, students must assume the duties of assistant to the Media Coordinator/School Librarian. Their primary assignment is to man the circulation desk, answer the telephone, and work daily to maintain a neat and appealing atmosphere in the library media center. Duties may include helping patrons with operation of the copier and laminating machine, cleaning and dusting, shelving media, operating equipment, processing new media, and recommending books. Above all, an applicant must be trustworthy, reliable, and an independent worker.

ROTC

AIR FORCE JUNIOR ROTC

All AFJROTC students must wear the Air Force JROTC uniform on one school day per week, according to Air Force standards. Students and their parents/guardians must agree and sign a contract stating willingness to comply with Air Force grooming standards and wearing of the uniform, along with a hand receipt agreeing to replace the uniform items if lost or damaged through abuse or neglect.

ROTC I

Required Fee: \$60.00

Aerospace Science (AS-I) is the introductory course to Air Force Junior ROTC and is a prerequisite for all following courses. All students must successfully pass this course and be recommended by the Senior Aerospace Science Instructor to take additional courses in AFJROTC. Prior to the beginning of curriculum academics, all students will receive a review on time management, academic study skills and personal motivation. ROTC I is comprised of two major parts: Aerospace Science (AS) and Leadership Education (LE). The AS portion will cover aviation history from 2000 BC through the present day, including current uses and applications of airpower. The LE portion will begin with the history of AFJROTC and progress through Air Force customs and courtesies, traditions, drill and ceremony, military rank structure, personal ethics, attitudes and values, US flag customs and courtesies, and selected topics on U.S. citizenship. Thursday classes will typically be devoted to uniform inspection and drill & ceremony. Tuesday will be devoted to health and wellness to include physical training (PT).

ROTC II

Prerequisite: Completion of ROTC I

Required Fee: \$60.00

Class Availability: 10th Grade, 11th Grade, 12th Grade

AS-II is comprised of two major parts: Aerospace Science (AS) and Leadership Education (LE). The AS portion will cover the Science of Flight, including the aerospace environment, human requirements of flight, as well as principles of flight (basic aerodynamics) and navigation. The LE portion will begin with communication skills and progress through individual behavior and group problem solving. Sequencing of AS and LE academics may be modified (within established AFJROTC curriculum policy guidelines) to accommodate AS-1 through AS-4 class scheduling constraints. Tuesday will be devoted to health and wellness to include physical training (PT).

ENGLISH II HONORS

Prerequisites: English I, Application Course (Please See Application)

Summer Reading Required

Class Availability: 10th Grade

Honors English II is a more intensive study of literary global perspectives and concepts focusing on literature from Africa, Asia, Oceania, Eastern Europe, the Middle East, and the Americas. Students will read a variety of increasingly complex texts including influential U.S. documents and a Shakespeare play. Literary analysis and use of rhetorical devices are emphasized as well as the development of arguments, informative/explanatory texts, and narratives with emphasis on the conventions of Standard English grammar. Students will use technology effectively for a variety of tasks including research and presentations. Emphasis will be placed on career/college readiness, development of competent speaking and writing styles, and collaboration with others to problem solve and enhance learning opportunities to fulfill the guidelines listed in the Common Core standards.

ENGLISH III

Prerequisites: English II

English III is a study of 18th, 19th, and 20th Century American literature including informational texts. Goals include those required in the Common Core standards with a strong emphasis on reading, writing, research, speaking and presentation of information, utilization of technology to research and presentation, cooperative problem solving, career/college readiness skills, and reading texts of appropriate complexity levels to enhance learning opportunities. In addition to the variety of American texts, students are required to read one Shakespeare play.

ENGLISH III HONORS

Prerequisites: English II, Application Course (Please See Application)

Summer Reading Required

Honors English III is an intensive and rigorous chronological study of American literature designed to enable students to read and think critically a variety of complex texts, and to meet the goals outlined in the Common Core standards. Students will demonstrate knowledge of 18th, 19th and 20th century foundational works of American literature, including informational texts. Students will also be required to read one Shakespeare play. Emphasis is placed on literary analysis and use of rhetorical devices, the development of arguments, informative/explanatory texts, and narratives. Students will conduct research to answer questions, solve a problem, and/or demonstrate understanding of the subject under investigation. Students will draw evidence from literary or informational texts to support analysis, reflection, and research, and integrate multiple sources of information presented in diverse formats and media (e.g., visually, quantitatively, orally) in order to make informed decisions and solve problems, evaluating the credibility and accuracy, and making strategic use of digital media. Students will be asked to utilize technology in publishing and presentation of student work. Emphasis will be placed on career/college readiness, development of competent speaking and writing style, and collaboration with others to problem solve and enhance learning opportunities to meet guidelines listed in the Common Core standards.

AP ENGLISH LANGUAGE AND COMPOSITION

Prerequisites: English II, Application Course (Please See Application)

Summer Reading Required

Class Availability: 11th Grade

Required Fee: Approximately \$89.00 for AP Exam

The Advanced Placement English Language and Composition course features college level work in the form of challenging reading assignments along with an emphasis on analytical writing and reading. Reading will be expected most nights and over breaks. Within these two areas of emphasis, there will be multiple-choice work which “measures a student’s ability to read, understand, and analyze the kinds of texts used in introductory college writing courses,” and there will be free-response questions designed to “measure each student’s ability to analyze a passage, respond to an argument, and create and establish a position.” In addition, in alignment with Common Core standards, the class will also examine U.S. literature and U.S. Literary nonfiction, especially foundational works and documents from the 17th century through the early 20th century. At least one Shakespearean play will also be included.

ENGLISH IV B

Prerequisites: English III

Class Availability: 12th Grade

English IV focuses on European (Western, Southern, Northern) literature. This course includes one Shakespearean play in addition to important U.S. documents and literature (texts influenced by European philosophy or action). Goals include those required in the Common Core standards with a strong emphasis on reading, writing, research, speaking and presentation of information, utilization of technology for research and presentation, cooperative problem solving, career / college readiness skills, and reading texts of appropriate complexity levels to enhance learning opportunities.

ENGLISH IV HONORS

Prerequisites: English III, Application Course (Please See Application)

Summer Reading Required

Class Availability: 12th Grade

Honors English IV focuses on European (Western, Southern, Northern) literature. This course includes important U.S. documents and literature (texts influenced by European philosophy or action). Goals include those required in the Common Core standard with a strong emphasis on reading, writing, research, speaking and presentation of information, utilization of technology for research and presentation, cooperative problem solving, career/college readiness skills, and reading texts of appropriate complexity levels to enhance learning opportunities. In addition to the variety of American texts, students are required to read one Shakespeare play. The honors-level course expects a higher level of commitment and work, features challenging reading assignments along with an emphasis on analytical reading, and expects independent literary analysis.

MASONRY I

Prerequisite: Completion of 9th Grade, Core and Sustainable Construction

Class Availability: 10th Grade, 11th Grade

This course is designed to give practical hands on experience in basic masonry skills. Students will learn safety, use of hand and power tools, blue print reading, and provide a solid foundation for a career in the construction industry.

MASONRY II

Prerequisite: Masonry I

Class Availability: 11th Grade, 12th Grade

Masonry II students will continue to build on their skills as a mason learning job layout, estimating, leadership, and advanced laying techniques. A majority of the class will be spent on jobsites around the community and school. Students will also have an opportunity to become certified in the OSHA 10 hour construction industry course

MASONRY III

Prerequisite: Masonry II

Class Availability: 12th Grade

This course provides advanced skills, leadership development, and the preparation of technical presentations. Topics include constructing composite walls, steps, arches, lattice walls, sidewalks, brick and concrete pavers, window sills, chimneys, and fireplaces. Skills in safety, mathematics, reading, problem solving and employability skills are reinforced in this course.

WELDING TECH I

Class Availability: 9th Grade, 10th Grade, 11th Grade

Introductory course in industrial and construction welding, including the nature of and opportunities in the welding industry.

WELDING TECH II

Prerequisite: Welding I

Class Availability: 10th, 11th Grade, 12th Grade

Specific instruction given in metal fabrication and welding, oxygen acetylene welding, arc welding, and welding inspections and testing.

WELDING TECH III

Prerequisite: Welding II

Class Availability: 12th Grade

This course stresses practical application of advanced welding, cutting, inspection, testing, blueprint reading, and fabrication techniques. Topics include measuring and layout tools, blueprints, SMAW, GMAW, FCAW, GTAW, and weld inspection and testing. Skills in leadership, safety, thinking, and planning are reinforced in this course.

COMPUTER ENGINEERING TECH. I
COMPUTER ENGINEERING TECH. II*

Class Availability: 10th Grade, 11th Grade, 12th Grade

This is a block class. In CET I students will explore all hardware components, build and troubleshoot computers. In CET II students will explore all operating systems dealing with computers, from Windows 3.x, 9x, ME, NT, 2000, and XP. Students will also explore Linux. This is a hands on and lecture class.

DRAFTING I

This course introduces students to simple and complex graphic tools used to understand ideas and concepts found in the area of architecture, manufacturing, engineering, science, and mathematics. Topics include problem-solving strategies, sketching, geometry, computer aided drafting (CAD), orthographic projection, and 3-D modeling. Students will draw technical/mechanical parts with pencil and paper and later, AutoCAD and inventor (drafting software). Students will also become familiar with product design strategies and build models.

DRAFTING ARCHITECTURE II *

Prerequisite: Drafting I

Class Availability: 10th Grade, 11th Grade, 12th Grade

This course focuses on the principles, concepts and tools used in the field of architecture, structural systems and construction trades. Emphasis is placed on the use of CAD tools in the creation of floor plans, wall sections, elevation drawings, electrical plans and 3-D modeling. More than fifty percent of class time is devoted to actual student work using drafting equipment.

DRAFTING ARCHITECTURE III*

Prerequisite: Drafting II

Class Availability: 11th Grade, 12th Grade

This course introduces students to advanced architectural design concepts. Emphasis is placed on the use of CAD tools in the design and execution of site and foundation plans as well as topographical information and detail drawings of stairs and kitchens. The history of architectural styles will also be explored and more than fifty percent of class time is devoted to actual student work using drafting equipment.

CORE AND SUSTAINABLE CONSTRUCTION

Class Availability: 9th Grade

This course covers the National Center for Construction Education and Research (NCCER) Core certification modules required for all of the NCCER curriculum-area programs, and an additional Green module. The course content includes: basic safety, introduction to construction math, introduction to hand tools, introduction to power tools, introduction to blueprints, material handling, basic communication skills, and basic employability skills, and "Your Role in the Green Environment". Students will be challenged to learn in a hands on environment. Assessment is often performance/project based. This is a required class before taking Masonry I.

AP ENGLISH LITERATURE AND COMPOSITION

Prerequisites: English III, Application Course (Please See Application)

Summer Reading Required

Required Fee: Approximately \$89.00 for AP Exam

The Advanced Placement English Literature and Composition course features college-level work that focuses on analysis of all forms of literature (poems, novels, plays, etc.). Students will learn "how" and "why" literature is written the way it is, as well as learn how to write and fully explain their insights on literature. There will be a lot of out-of-class reading that includes most nights, weekends, summer and breaks. Evaluations of performance will include multiple-choice questions, free response essays, and discussions in order to prepare students for the AP Exam in May. In order to maintain congruity with other English IV classes and the Common Core standards, this class will also cover European (Western, Southern, Northern) literature including at least one Shakespearean play.

MATH**FOUNDATIONS OF MATH I / MATH I BLOCK**

Prerequisite: Recommendation of Math Placement Committee

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

MATH I

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

MATH II

Prerequisite: Completion of Math I

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

MATH II HONORS

Prerequisites: Math I, Application Course for Rising 9th Grade (Please See Application)

Math II Honors provides students a comprehensive, in-depth study of logical reasoning as related to geometric concepts. Basic principles of algebra will be used extensively. Students will study supplementary topics, participate in seminars, and develop projects that involve real world applications. A more rigorous pacing is required, as is a very strong background in Math I.

MATH III

Prerequisite: Completion of Math II

Math III progresses from the standards learned in Math I and Math II. In addition to these standards, Math III extends to include algebraic concepts such as: the complex number system, inverse functions, trigonometric functions and the unit circle. Math III also includes the geometric concepts of conics and circles.

MATH III HONORS

Prerequisites: Minimum grade of B in Math II Honors, recommendation of Math II Honors teacher, and recommendation of Math Placement Committee or minimum grade of A in Math II, recommendation of Math II Honors teacher, and approval of Math Placement Committee

Honors Math III addresses the topics of Math III at a more comprehensive level. Additional topics, seminars, and projects with real world applications are included. A more rigorous pacing is required, as is a very strong background in Math I and Math II.

ADVANCED FUNCTIONS AND MODELING

Prerequisite: Completion of Math III

Advanced Functions and Modeling provides students an in-depth study of modeling and applying functions. Home, work, recreation, consumer issues, public policy, and scientific investigations are just a few of the areas from which applications should originate. Appropriate technology, from manipulatives to calculators and application software, should be used regularly for instruction and assessment.

HONORS DISCRETE MATHEMATICS

Prerequisite: B or higher in Math III

Honors Discrete Mathematics covers many topics, which include graph theory, applications of probability, the mathematics of social decision-making, matrix modeling, and the mathematics of iteration. Some of the subtopics include fairness in decision making, analysis of elections, Markov chains, investigating algorithms, and graphic modeling. Students will study supplementary topics, participate in seminars, and develop projects that involve real world applications. A more rigorous pacing is required, as is a strong background in Math I, Math II, and Math III.

INTERIOR DESIGN II

Prerequisite: Interior Design I

Class Availability: 11th and 12th Grade

Required Fee: \$10.00

This course focuses on understanding the world of work in the interior design industry. Students will investigate such topics as career development; design fundamentals and theory. 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 AND CONSUMER SCIENCES ADVANCED STUDIES*

Must designate Foods or Apparel Development

Required fee of \$21.00 for Foods Class

Prerequisite: Two technical credits in Family and Consumer Sciences, (Apparel I and II, Foods I and II)

Education, Teacher recommendation required

Class Availability: 12th Grade

This culminating course is for seniors who are career-focused in the apparel design, community and family services, culinary arts and hospitality, food science, dietetics and nutrition, or interior design career areas. The three parts of the course include a research paper, a product and a presentation. Students demonstrate their abilities to write, speak, solve problems, and to use life skills such as time management and organization. Students work under the guidance of a teacher-facilitator in collaboration with community members, business representatives, and other school-based personnel.

TRADES AND INDUSTRY

INTRODUCTION TO TRADE AND INDUSTRY

This course will introduce students to concepts needed for careers in Trade and Industry professions including Advanced Manufacturing careers. Skillsets specific to Trade and Industry careers will be provided to include key concepts from the systems used in manufacturing processes and will incorporate problem-solving, design, technical communication, modeling, testing, evaluation, and implications of technology. Activities associated with the major program areas of Trade and Industrial Education will provide practical applications to enhance student learning. English language arts are reinforced. Work-based learning strategies appropriate for this course include job shadowing. Apprenticeship and cooperative education are not possible for this course. SkillsUSA competitive events, community service, and leadership activities provide the opportunity to apply essential standards and workplace readiness skills through authentic experiences.

APPAREL DEVELOPMENT I

Class Availability: 9th Grade, 10th Grade, 11th Grade

This course examines 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. Skills in art, communication, mathematics, science, and technology are reinforced in this course. Students are responsible throughout the year for purchasing their supplies for projects.

APPAREL DEVELOPMENT II

Prerequisite: Apparel I

Class Availability: 11th Grade, 12th Grade

This course focuses on advanced clothing and housing apparel development. The use of fibers and fabrics is combined with design and construction techniques to develop and produce a clothing or housing apparel product. A real or simulated business apparel enterprise allows students to apply instructional strategies and workplace readiness skills to an authentic experience and to develop a portfolio. Skills in science, mathematics, management, communication, and teamwork are reinforced in this course. Students are responsible throughout the year for purchasing their supplies for projects.

PARENTING & CHILD DEVELOPMENT

This course introduces students to responsible nurturing and basic applications of child development theory. 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 the parent's responsibilities and the influences they have on children while providing care and guidance. Skills in communication, resource management, and problem solving are reinforced in this course. Students learn about career opportunities that involve working with children.

INTERIOR DESIGN I

Class Availability: 10th, 11th and 12th Grade

Required Fee: \$10.00

This course focuses on housing needs and options of individuals and families at various stages of the life cycle. Emphasis is placed on selecting goods and services and creating functional, pleasing living environments using sound financial decisions and principles of design. Topics of study include elements and principles of design, backgrounds and furnishings, architectural styles and features, and functional room design. Art and mathematics are reinforced. Work-based learning strategies appropriate for this course include cooperative education, entrepreneurship, internship, mentorship, school-based enterprise, service learning, and job shadowing. Apprenticeship is not available for this course. Family Career Community Leaders of America (FCCLA) competitive events, community service, and leadership activities provide the opportunity to apply essential standards and workplace readiness skills through authentic experiences.

ADVANCED MATH (PRECALCULUS)

Prerequisites: Minimum grade of B in Math III Honors, recommendation of Math III Honors teacher, and approval of Math Placement Committee
Advanced Math (Precalculus) provides students a complete study of trigonometry, as well as advanced algebra topics, analytic geometry, sequences and series, and data analysis. Applications and modeling will be included throughout the course of study. Appropriate technology will be used.

HONORS CALCULUS

Prerequisites: Minimum grade of B in Precalculus, Application Course (Please See Application)

Honors Calculus is designed to give students an overview of calculus topics such as limits, derivatives, anti-derivatives, integrals and differentials. While this course covers many of the same concepts found in Advanced Placement Calculus, it is not bound by the pace and rigor necessary for success on the AP Calculus exam. Honors Calculus best suits the student who is mathematically ready to learn calculus but does not want the faster pace of AP Calculus. Honors Calculus will prepare students to succeed in Calculus I at the college level. Students who excel in honors calculus will have the option of taking the AP Calculus Exam in May.

AP STATISTICS

Prerequisites: Minimum grade of A in Honors Math III, recommendation of Math III Honors teacher, and approval of Math Placement Committee or Minimum grade of C in Precalculus, recommendation of Precalculus teacher, Application Course (Please See Application)

Required Fee: Approximately \$89.00 for AP Exam

AP Statistics follows the College Board curriculum, introduces students to the major statistical concepts and tools for collecting, analyzing, and drawing conclusions from data. Students will observe patterns and departures from patterns, decide what and how to measure, produce models using probability and simulation, and confirm models. Appropriate technology, from manipulatives to calculators and application software, will be used regularly for instruction and assessment. At the completion of this course, students will be required to take the Advanced Placement Exam.

AP CALCULUS AB

Prerequisites: Minimum grade of B in Precalculus, recommendation of Precalculus teacher, Application Course (Please See Application)

Required Fee: Approximately \$89.00 for AP Exam

AP Calculus follows the College Board curriculum to develop the student's understanding of the concepts of calculus (functions, graphs, limits, derivatives, and integrals) and provides experiences with its methods and applications. The course encourages the geometric, numerical, analytical, and verbal expressions of concepts, results, and problems. Appropriate technology, from manipulatives to calculators and application software, will be used regularly for instruction and assessment. At the completion of this course, students will be required to take the Advanced Placement Exam.

SCIENCE

EARTH/ENVIRONMENTAL SCIENCE

This course is a study of the function of the earth's systems and place in the universe. Emphasis is placed on matter, energy and cycles that circulate energy and matter through earth system. Major themes include awareness of limited natural resources, importance of biodiversity, and potential human impacts on various natural systems.

EARTH AND ENVIRONMENTAL SCIENCE HONORS

Prerequisite: Application Course (Please See Application)

Honors Earth/Environmental Science offers students serious about science a more research-based, in-depth approach to earth's natural processes, including natural resources, importance of biodiversity, and potential human impacts on various natural systems. Students are encouraged to develop research skills useful for honors biology and more advanced courses. Weekly summaries of current environmental issues are required.

BIOLOGY

Prerequisite: Earth/Environmental Science

A study of cellular, organismic, and ecological levels of the living world.

HONORS BIOLOGY

Prerequisite: Math I, Application Course (Please See Application)

Corequisite: Math II or Math III

Class Availability: 10th Grade

Honors Biology covers topics typically covered in a high school biology course and prepares students for Advanced Placement Biology. Students study the structures, functions, and processes of living organisms and their interactions with the environment. Major themes include cell structure and specialization, energy and chemistry of life, genetics and evolution, diversity of life, plant systems, and ecology. Students learn complex biological concepts through engaging lecture, lab experiences, and projects.

PHYSICAL SCIENCE

Class Availability: 11th Grade, 12th Grade

A study of the physical and chemical principals fundamental to science.

CHEMISTRY

Prerequisite: Math II

Co-requisites: Math III or higher math class, and Biology

Class Availability: 11th Grade, 12th Grade

Chemistry I is a study of basic principles of chemistry with emphasis on atomic structure, chemical reactions and equations, chemical analysis, environmental chemistry and laboratory practices.

FAMILY AND CONSUMER SCIENCE

TEEN LIVING

Class Availability: 9th Grade, 10 Grade

Required Fee: \$15.00

This class examines life management skills in the areas of personal and family living; wellness, nutrition, and foods; financial management; living environments; appropriate child development practices; fashion and clothing; and job readiness. Emphasis is placed on students applying these skills during their teen years. Through simulated experiences, they learn to fulfill their responsibilities associated with the work of the family and community. Skills in mathematics, communication, science, technology, and personal and interpersonal relations are reinforced in this course.

FOODS & NUTRITION

Class Availability: 10th Grade, 11th Grade

Required Fee: \$21.00

This course examines the nutritional needs of the individual. Emphasis is placed on the relationship of diet to health, kitchen and meal management, food preparation and sustainability for a global society, and time and resource management. English language arts, mathematics, science, and social studies are reinforced. Work-based learning strategies appropriate for this course include service learning and job shadowing. Apprenticeship and cooperative education are not available for this course. Family, Career and Community Leaders of America (FCCLA) competitive events, community service, and leadership activities provide the opportunity to apply essential standards and workplace readiness skills through authentic experiences.

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

FOODS II*

Prerequisite: Foods I

Class Availability: 11th Grade, 12th Grade

Required Fee: \$21.00

This course focuses on advanced food preparation techniques while applying nutrition, food science, and test kitchen concepts using new technology. Food safety and sanitation receive special emphasis, with students taking the exam for a nationally recognized food safety credential. Students develop skills in preparing foods such as beverages, salads and dressing, yeast breads, and cake fillings and frostings. A real or simulated in-school food business component allows students to apply instructional strategies. English language arts, mathematics, and science are reinforced. Work-based learning strategies appropriate for this course include apprenticeship, cooperative education, entrepreneurship, internship, mentorship, school-based enterprise, service learning and job shadowing. Family, Career and Community Leaders of America (FCCLA) competitive events, community service, and leadership activities provide the opportunity to apply essential standards and workplace readiness skills through authentic experiences. Go to <http://www.servsafe.com/> for Information on the student credentialing program and testing information.

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

HEALTH SCIENCE I

Co-requisite: Biology

Class Availability: 10th Grade, 11th Grade

Fee required

Designed as a basic anatomy and physiology course for students interested in pursuing a health care career. Included is the human body in health and disease, biochemistry, medical terminology, communication skills and career information. AHS I is a prerequisite for HS II.

HEALTH SCIENCE II*

Prerequisite: Health Science I

Class Availability: 11th Grade, 12th Grade

Fee required

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

NURSING FUNDAMENTALS

Prerequisite: Health Science II

Class Availability: 12th Grade

Recommended Maximum Enrollment: 10

This course is designed for students interested in medical careers where personal care and basic nursing skills are used. This course is an enhanced adaptation of the North Carolina Division of Health Service Regulation (DHSR) Nurse Aide I (NAI) curriculum and helps prepare students for the National Nurse Aide Assessment (NNAAP). Students who pass the NNAAP become listed on the NC NAI Registry. English language arts, mathematics, and science are reinforced. Work-based learning strategies appropriate for this course include a required clinical internship in a long-term care agency. Healthcare agencies may require testing for tuberculosis and/or other diseases and a criminal record check for felonies related to drugs. Cooperative education is not available for this course. HOSA competitive events, community service, and leadership activities provide the opportunity to apply essential standards and workplace readiness skills through authentic experiences. Enrollment is limited per North Carolina Board of Nursing (BON) Administrative Rule 21 NCAC 36.0318(i), which requires the ratio of teacher to nurse aide students be 1:10 or less while in the clinical area. DHSR applies BON Rule to the classroom training area.

CHEMISTRY II HONORS

Prerequisite: Chemistry I with a grade of "A" or "B", Application Course (Please See Application)

Class Availability: 11th Grade, 12th Grade

Chemistry II Honors is an advanced study of chemical processes. The class is designed to give students an enhanced understanding of the concepts learned in Chemistry I. Laboratory and theoretical concepts are strongly emphasized. Studies include the development of proper laboratory skills; qualitative and quantitative experimental analyses using a myriad of laboratory techniques, and additional content in areas not emphasized in chemistry (i.e. additional organic chemistry and forensic science). Emphasized topics include gravimetric techniques, acid-base titrations, organic nomenclature, esterification, saponification, crystal structure, forensic science, polymerization, distillation, and analytical chemistry.

BIOLOGY II HONORS

Prerequisite: Biology with a grade of "A" or "B"; Chemistry with a grade of "C" or better. Application Course (Please See Application)

Class Availability: 11th Grade, 12th Grade

Biology II Honors is an accelerated comprehensive field and laboratory course designed to give the students a more conceptual in-depth understanding of the concepts in the *Common Core and Essential Standards* in biology. The course is designed for highly motivated students who have demonstrated an advanced level of interest, learning, and achievement in the area of science. Students are expected to work independently, as well as in small groups on a variety of assignments and accept greater responsibility for their learning. Students will complete at least one in-depth independent study of their assigned area. The curriculum will integrate inquiry and technology to explore the world of biology.

Participation in dissections is required.

AP ENVIRONMENTAL SCIENCE

Prerequisites: Biology with a grade of "A" or "B", Chemistry with a grade of "C" or better, Application Course (Please See Application)

Summer reading required.

Class Availability: 11th Grade, 12th Grade

Required Fee: Approximately \$87.00 for AP Exam

AP Environmental Science course is designed to be the equivalent of a one-semester introductory college course in environmental science. The goal of the AP Environmental Science course is to provide students with the scientific principles, concepts and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and man-made, to evaluate the relative risks associated with these problems and to examine alternative solutions for resolving and/or preventing them.

AP BIOLOGY

Prerequisites: Biology, Chemistry, Application Course (Please See Application)

Summer Reading required

Class Availability: 11th Grade, 12th Grade

Required Fee: Approximately \$87.00 for AP Exam

AP Biology course is designed to be the equivalent of two semesters of college level biology. The curriculum emphasizes inquiry and four big ideas: Evolution, Energy, Information, and Interactions. Students will be required to complete online assignments weekly before class. All topics in this class are framed in an evolutionary context which is introduced through summer reading prior to class.

ADVANCED PHYSICS

Prerequisites: Algebra II or Math II with grades of A or B, Application Course (Please See Application)

Co-requisite: Advanced Math, Pre-Calculus, or higher level of Mathematics

Class Availability: 11th Grade, 12th Grade

A study of the more advanced aspects of the forces of motion, thermodynamics, electricity, magnetism, optics and wave theory. Laboratory practices are emphasized.

SOCIAL STUDIES

Graduation requirements have changed for the Class of 2016 and after. They are required to have 4 social studies credits (World History, American History I, American History II, and Civics and Economics) to graduate. Students who wish to take AP US History as juniors should apply for the Turning Points in American History class as sophomores. If accepted, their four social studies credits would be World History, Turning Points, AP US History, and Civics and Economics. The Class of 2015 only need 3 Social Studies credits (World History, Civics and Economics, and US History). If there are enough students enrolled, one section each of Civics and Economics and US History will be taught for students who still need those credits.

	Class of 2015 (Rising Seniors)	Class of 2016 and later	Class of 2016 AP Honors Track
9th Grade	World History	World History	World History
10th Grade	Civics and Economics	American History I	Honors Turning Points
11th Grade	US History	American History II	AP US History
12th Grade	Optional: Special Interest Social Studies (Formerly: World Affairs)	Civics and Economics	Civics and Economics

MULTIMEDIA & WEBPAGE DESIGN

Required Fee: \$9.00

Students will be introduced to Multimedia for the Web. They will be required to design and build web sites using HTML and Web Authoring software. Included in the building of the site will be multimedia graphics, animation, sound and video elements. Students will learn to use and become proficient in Photo Shop Elements, GIMP, Photo Story 3, Go Animate, Aviary, Flash and more.

ENTREPRENEURSHIP I*

Prerequisite: Principles of Business or Personal Finance

Class Availability: 11th and 12th Grade

Required Fee: \$9.00

Small business accounts for 90% of the growth in our economy! Nearly every college has introduced Entrepreneurship as an objective in every curriculum. Make sure you are prepared by taking Entrepreneurship. You will use a wonderful Business Plan software to design your own business plan for your individual business. Students will take field trips to see how small businesses are run in our community. Students will also participate in running a school based business. Join the hands on fun!

BUSINESS LAW*

Prerequisite: Principles of Business or Personal Finance

Class Availability: 10th Grade, 11th Grade, 12th Grade

\$9.00 Fee Required

This course is designed to acquaint students with the basic legal principles common to all aspects of business and personal law. Business topics include contract law, business ownership including intellectual property, financial law, and national and international laws. Personal topics include marriage and divorce law, purchasing appropriate insurance, renting and owning real estate, employment law, and consumer protection laws.

HEALTH OCCUPATIONS

BIOMEDICAL TECHNOLOGY

Class Availability: 9th & 10th Grade Only

This course challenges students to investigate current medical and health care practices using technology and advances in health care research. Topics include ethics, forensic medicine, infectious diseases, organ transplants, cell biology and cancer, and biomedical research. English language arts and science are reinforced in this course. Work-based learning strategies appropriate for this course include service learning and job shadowing. Apprenticeship and cooperative education are not available for this course. Health Occupations Students of America (HOSA) competitive events, community service, and leadership activities provide the opportunity to apply essential standards and workplace readiness skills through authentic experiences.

BUSINESS TECHNOLOGIES

CAREER MANAGEMENT

Required Fee: \$9.00 – All Business Classes

This class is designed to prepare students to locate, secure, keep, and change careers. Students will learn about the technical nature of today's world of work. Students will learn about teamwork, technology, problem solving, decision-making, goal setting and self-management.

PRINCIPLES OF BUSINESS

Required Fee: \$9.00

This is an introductory course covering principles and concepts that will be the foundation for future study of business and management of work projects. Students will work daily on hands-on projects. Topics include how to budget, save for the future, understanding the stock market, using a checking account, avoiding credit card debt, global studies, insurance and much more. Send your student into the real world with real understanding.

PERSONAL FINANCE

Prerequisite: None

Required Fee: \$9.00

This course prepares students to become equipped to confidently discuss money issues and plan for their own financial future; understand economic activities and challenges of individuals; see how simple saving habits can lead to becoming wealthy; understand the role of lifestyle goals in education and career choices, procedures in a successful job search, financial forms used in independent living, and shopping options and practices for meeting consumer needs. The course also prepares students to understand consumer rights, responsibilities, and information; protect personal and family resources; and apply procedures for managing personal finances.

MICROSOFT WORD AND POWERPOINT

Required Fee: \$9.00

Students in Microsoft benefit from world-class Microsoft curriculum and cutting-edge software tools to tackle the real world challenges in the classroom environment. Students will learn to use the newest version of Microsoft Word and Microsoft PowerPoint, to create, customize, and publish a document.

MICROSOFT EXCEL AND ACCESS

Required Fee: \$9.00

The first portion of the course is designed to help the student use the newest version of Microsoft Excel interface, commands, and features to present, analyze, and manipulate various types of data. Students will learn to manage workbooks as well as how to manage, manipulate, and format data. In the second portion of the course, students will learn how to create and work with a database and its objects by using the new and improved features in the newest version of Microsoft Access. Students will learn how to create, modify, and locate information as well as how to create programmable elements and share and distribute database information. Mathematics is reinforced.

WORLD HISTORY

This course examines the world through time, focusing on the historical development of phenomena, and the rise and fall of civilizations, and their unique contributions to humanity. This class is predominantly for 9th graders. It meets the NC requirement for World Studies.

CIVICS AND ECONOMICS

Class Availability: 12th Grade

This course is required for all graduates. This course considers economic institutions, political, governmental and legal topics.

U.S. HISTORY

Prerequisite: Civics and Economics, World History

Class Availability: 12th Grade

This course provides a survey of United States History from the federalist era to the present, with emphasis on the economic, social, and political developments of the twentieth century.

TURNING POINTS IN AMERICAN HISTORY

Prerequisite: Completion of 9th Grade, Application Course (Please See Application)

Class Availability: 10th Grade

This course will emphasize, in greater depth, key turning points in American history. These turning points are "hinge" events in our nation's history, caused by, and subsequently contributing to, major social, cultural, political, and economic events. These turning points when considered chronologically will provide a narrative of United States history. A major element of each turning point will be an understanding of historical methods and the use of historical inquiry. These students are committing to take AP US History as juniors.

AP U.S. HISTORY

Prerequisite: Turning Points In American History, Teacher Recommendation

Summer Reading required

Class Availability: 11th Grade

Required Fee: Approximately \$87.00 for AP Exam

Students who wish to take AP as juniors must apply for and be accepted in Turning Points as freshmen., and then pass Turning Points as sophomores. This is a college level U.S. History course that prepares students for the AP U.S. History Exam. The course provides a survey of United States history from the colonial period to the present, with emphasis on the economic, social, and political development of the twentieth century.

SPECIAL INTEREST SOCIAL STUDIES (Formerly: WORLD AFFAIRS)

Prerequisite: Application Course (Please See Application)

Class Availability: 12th Grade

Interested seniors must make application as juniors. Students will develop a broader view of America's role in world events and the interdependence of American society with countries around the world since World War II.

AMERICAN HISTORY I: THE FOUNDING PRINCIPLES

Prerequisite: Completion of 9th Grade

This course covers American history from the European exploration of the new world to Reconstruction. Students will learn about important political and economic factors that contributed to the development of colonial America, the outbreak of the American Revolution, the establishment of political parties, America's Westward expansion, the growth of sectional conflicts that led to the Civil War, and the consequences of the Civil War, including Reconstruction.

AMERICAN HISTORY II

Prerequisite: American History I

This course covers American history from the late 19th century until the present. Students will examine the political, economic, social, and cultural development of the United States during this time period. The desired outcome is for students to develop an understanding of the cause-and-effect relationship between past and present events, recognize patterns of interactions, and understand the impact of events in the United States in an interconnected world.

WORLD LANGUAGES

SPANISH I

Prerequisites: 9th graders must have a B or better in 8th grade English.

Students will learn the basic skill of the Spanish language: vocabulary, tenses, expressions, and conversation. They will be introduced to phonetics and develop skills. They will also be introduced to the Hispanic culture and an understanding of the benefits of learning a second language.

SPANISH II

Prerequisite: Spanish I, Grade of C or better recommended.

Students will develop a deeper approach to the management of Spanish as a second language. They will study grammatical structures, complex phonetics and more specific vocabulary. They will learn how to apply the language in everyday situations feeling more comfortable in the use of it.

SPANISH II – ACCELERATED

Prerequisites: Spanish I with a high "B" average or better, and Teacher Recommendation required

The material covered will be the same as regular Spanish II but will be presented more in depth and at a faster pace. There is more emphasis on speaking, individual development and performance. Students taking this course generally continue on to Spanish III.

SPANISH III HONORS

Prerequisites: Spanish II, and Teacher recommendation required

Students will study the language in terms of developing a better comprehension of the Hispanic culture. They will continue expanding the vocabulary, the use of the language, and idiomatic expressions through the reading of more in depth texts. There is a strong emphasis on geography and culture in Spanish.

AGRICULTURAL MECHANICS II*

Prerequisite: Agricultural Mechanics I

Class Availability: 11th Grade, 12th Grade

FFA Membership Dues: \$12.00

Expands concepts covered in Agricultural Mechanics I. Units of instructions include leadership development, safety, metal fabrication, agricultural power, plumbing, agricultural construction, and fencing. Instruction is heavily oriented to design and construction of agricultural related projects.

HORTICULTURE I

Class Availability: 9th Grade, 10th Grade, 11th Grade

FFA Membership Dues: \$12.00

Instruction focuses on the broad field of horticulture, including the study of the basic scientific principles of plant science including vegetables and ornamental landscaping plants. Also units of plant propagation will be taught in the greenhouse. Students gain hands-on experience in growing and caring for plants which are then sold at the spring greenhouse sale. Horticulture students are encouraged to join FFA.

HORTICULTURE II*

Prerequisite: Horticulture I

Class Availability: 10th Grade, 11th Grade, 12th Grade

FFA Membership Dues: \$12.00

Instruction focuses on the knowledge and skills developed in Horticulture I. Topics include bedding, plant production, watering systems, light effects, lawn & turf grass management, career planning, leadership and personal development. Skills in biology, chemistry and algebra are reinforced. Horticulture students are encouraged to join FFA.

HORTICULTURE II: LANDSCAPE CONSTRUCTION*

Prerequisites: Horticulture I and II, Teacher recommendation required

Class Availability: 11th Grade, 12th Grade

FFA Membership Dues: \$12.00

This is an intense course. Landscape Construction and Maintenance provides hands on instruction and emphasizes safety skills needed by landscape technicians in the field. This course is based on the North Carolina Landscape Contractors' Association skill standards for a Certified Landscape Technician. Students are instructed in interpreting landscape designs, identifying landscape plants, and planting/maintaining trees, shrubs and turf. Landscape construction is emphasized in the areas of grading and drainage, irrigation, paver installation and the use/maintenance of landscape equipment. Current topic discussions provide students an understanding of careers and the employability skills needed to enter the landscape industry. Opportunities exist for students to conduct internships or apprenticeships as landscape technicians. This is an agricultural education advanced studies class. Horticulture students are encouraged to join FFA.

PUBLICATIONS

Prerequisites: Completion of the 10th Grade, Recommendation of Placement Committee

Class Availability: 11th Grade, 12th Grade

Students in this course will publish the school yearbook, The Mountaineer. This course will focus on the fundamentals of journalism and digital photography. Staff members will be responsible for planning, writing, editing, interviewing, selling yearbooks and advertisements, using a variety of desktop publishing software (Adobe InDesign and Adobe Photoshop), operating a digital camera and scanning. Emphasis will be placed on writing, learning to use software, operating photographic equipment and meeting ongoing deadlines.

CAREER and TECHNICAL EDUCATION

***Class is a completer in CTE Cluster**

AGRICULTURE/HORTICULTURE

AGRISCIENCE APPLICATIONS

Class Availability: 9th Grade

FFA Membership Dues: \$12.00

Instruction integrates basic biological and physical sciences and technological concepts with principles of production agriculture with specific focus on environmental and engineering technology, plant, animal and food sciences and agribusiness.

AGRICULTURAL PRODUCTION & MANAGEMENT I

Prerequisite: Completion of 9th Grade, Recommend completion of Agriscience Applications

Class Availability: 10th Grade, 11th Grade, 12th Grade

FFA Membership Dues: \$12.00

Instruction focuses on the basic scientific principles and processes, which are involved in the production of plants and animals in agricultural occupations. Units of instruction include leadership, supervised agricultural experience, business management, forestry/wildlife management, agricultural mechanics, plant and soil science, and animal science.

AGRICULTURAL MECHANICS I

Prerequisite: Completion of Agriscience Applications recommended

Class Availability: 10th Grade, 11th Grade

FFA Membership Dues: \$12.00

This course provides instruction to develop knowledge and technical skills in the broad field of agricultural machinery, equipment, and structures. The primary purpose of the course is to prepare students to handle the day-to-day problems, accidents, and repairs they may 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 and carpentry, basic welding and leadership development.

SPANISH IV HONORS

Prerequisite: Spanish III, Teacher recommendation required

Class Availability: 11th Grade, 12th Grade

Students will develop a better command of the language through conversations and the analysis of books, magazines, videos, tapes, slides, articles, newspapers, etc. This course will enable students to learn more about cultural situations and ways of life of the Hispanic culture and history. There is also emphasis on cultural comparisons and cross-cultural activities.

AP SPANISH V/ HONORS SPANISH 5

Prerequisite: Spanish IV, Application & teacher recommendation required

Class Availability: To be determined by student demand and teacher availability.

Required Fee: Approximately \$87.00 for AP Exam.

This is an intensive course taught entirely in Spanish and designed for students planning to take the AP Language Exam. Emphasis will be on sharpening all skills, reviewing grammar, expanding vocabulary, developing skill in essay writing, and sharpening listening skills.

FRENCH I

Prerequisite: 9th graders must have a B or better in 8th grade English

The first year students begin to develop listening and speaking skills and to create a vocabulary and grammar base for their cultural studies. Reading and writing will be gradually increased throughout the year. Students will become familiar with the culture of the Francophone world.

FRENCH II

Prerequisite: French I, Grade of C or better recommended.

The second year students intensify their listening and speaking practices while continuing reading, writing and cultural exploration and development of grammar and vocabulary. Students should become more comfortable expressing themselves in French.

FRENCH III HONORS

Prerequisite: French II, Teacher recommendation required

The third-year students deepen their conversation and composition while continuing reading, grammar, and cultural studies. Vocabulary is greatly expanded through the analysis of primary sources such as magazines, newspapers, films, slides, etc.

FRENCH IV HONORS

Prerequisite: French III, Teacher recommendation required

Class Availability: 11th Grade, 12th Grade

The fourth year students continue development of oral skills, reading, grammar, and cultural studies. The objective is to develop comprehension and fluency of expression in active communication involving a variety of sources, topics, and structures.

HEALTH/PHYSICAL EDUCATION

HEALTH/PE

Required Fee: \$20.00

The purpose of health and physical education is to provide appropriate instruction for building a healthy body, mind, and character in each student. Dress out is required. Health and P.E. alternate weeks.

HEALTH/WEIGHTS – BOYS

Teacher recommendation required

Required Fee: \$20.00

Class Availability: 9th Grade

The purpose of health and physical education is to provide appropriate instruction for building a healthy body, mind, and character in each student. This course is intended for students who plan to participate in athletics. Dress out is required.

PHYS ED (Elect 9-12) (Team Sports) 62022X0

Required Fee: \$20.00

Class Availability: 10th, 11th, 12th Grade

Class is designed for individuals enjoying the thrill of competition in team sports. Team sports included will be volleyball, soccer, basketball, softball, flag football, floor hockey, and team handball. Daily dress-out is also required.

PHYS ED (Fitness Class) 62022X0F

Teacher recommendation required

Required Fee: \$20.00

Class Availability: 10th, 11th, and 12th Grade

Class is designed for athletes to use decision making processes to select appropriate physical activities to achieve fitness, demonstrate understanding of the training and skill work necessary to improve fitness and enhance individual, family and community health.

PHYS ED (Weights– BOYS) 62022X0B

Teacher recommendation required

Required Fee: \$20.00

Class Availability: 10th Grade, 11th Grade, 12th Grade Boys Only

Development of muscular strength and endurance, flexibility and agility. Dress-out required. This class is designed for athletes.

MUSIC

CONCERT BAND I

Prerequisite: Recommendation of Placement Committee

Required Fee: \$20.00

Performance oriented class consisting of concerts throughout the school year.

The focus will be on developing group and individual fundamentals of music.

Marching Band is not required but highly encouraged.

VISUAL ARTS II

Prerequisites: A/B in Visual Arts I, Recommendation of Teacher or Placement Committee

Class Availability: 10th Grade, 11th Grade, 12th Grade

Required Fee: \$10.00 supplies and \$10 hand bound sketchbook

This course is designed specifically for students interested in pursuing an art-based career such as architecture, art education, graphic design, museum management, interior, industrial, or fashion design, and fine arts production. The course consists of advanced instruction in drawing, painting, sculpture, and design. Students will be expected to produce major works of art using advanced techniques and media over sustained periods of time. History curriculum alternates every year between prehistoric art through Baroque and 18th century Enlightenment thru contemporary. Art History lectures and films are interspersed throughout studies.

VISUAL ARTS III HONORS

Prerequisites: Completion of Visual Arts I and II, grades of A/B in both, Recommendation of Art Teacher or Placement Committee

Class Availability: 11th Grade, 12th Grade

Required Fee: \$15.00 Supplies, \$10 hardcover sketchbook

Honors A is an advanced course and involves more in-depth knowledge of art processes, techniques, art media, history and evaluation. Honors A is for students interested in pursuing a career in art education, fine arts, commercial art or art related fields. The course emphasizes problem solving, portfolio development and strengthens the student's knowledge of art history, vocabulary and ability to create conceptual art. The course is designed to help students exhibit fluency of ideas and art products, the basic rationale and psychology behind the creative process and demonstrate greater mastering of skills and processes. Art History focuses on a more detailed exploration of Renaissance, Impressionism, and Contemporary works with an annual trip to the High Museum in Atlanta.

VISUAL ARTS (ADVANCED)

Prerequisites: Completion of Visual Arts III Honors with grades of A/B, Recommendation of the Art Teacher or Placement Committee

Class Availability: 12th Grade

Required Fee: \$15.00 Supplies, \$10 hardcover sketchbook

This course is designed for students who are pursuing a career in art especially commercial design, education or art production. The course is a mirror image of Honors Art A, except students are required to problem solve, produce conceptual art and demonstrate a greater mastery of skills than Honors Art A. Students will be required to work towards a portfolio of their work and an end of year senior exhibition. Art History focuses on a more detailed exploration of Renaissance, Impressionism, and Contemporary works.

CONCERT CHOIR

Prerequisite: Written recommendation from previous choral director, or approval from Miss Setzer.

Class Availability: 9th – 12th Grade Males
10th – 12th Grade Females

Required Fee: \$25.00

This class is a non-auditioned mixed choir and is performance-oriented, doing a Christmas and Spring concert as well as attending the Brevard Choral Festival. Emphasis will be placed on group as well as individual performance.

CHAMBER CHOIR /SUMMIT

Prerequisite: Audition Only

Class Availability: 10th – 12th Grade Males
11th – 12th Grade Females

Required Fee: \$25.00

This class is a mixed choir and will be performance-oriented, doing several concerts throughout the year. The group will be doing a Broadway Review show, a Christmas and Spring concert, and Country-Western Show, as well as attending the Brevard Choral Festival and a performance trip.

INTRODUCTION TO MUSIC

For Students who are not interested in singing or being in a performing ensemble but wish to take a music class. This course covers a variety of musical topics including a brief overview of music history, how to read music notation, jazz, and the popular music of today.

INTRODUCTION TO CHORUS

This class is for students who are interested in learning to read music, learn rhythms, and develop the skills needed for proper vocal production. It is designed for students who have not been a part of an organized choral group in the past. The class participates in the choral department's annual Christmas concert and a spring concert. Students are required to attend two other concerts during the year to critique other performances.

ART

VISUALARTS I

Recommendation from 8th grade art teacher for 9th grade only

Required Fee: \$10.00

The course is divided into six units containing design, drawing, painting, print-making, sculpture, and art history. The course consists of 75% studio work and 25% art history. History curriculum alternates every year between prehistoric art through Baroque and 18th century Enlightenment thru contemporary. Art History lectures and films are interspersed throughout weekly lessons.

BAND (BEGINNING)

Prerequisite: Recommendation of Placement Committee

Required Fee: \$20.00

Performance oriented class consisting of concerts throughout the school year. The focus will be on developing group and individual fundamentals of music. ***Marching Band is not required but highly encouraged.***

SYMPHONIC BAND

Prerequisite: Audition (instrumentation limited), Recommendation of Placement Committee

Required Fee: \$20.00

Performance oriented class. Students will perform concerts throughout the year. The focus will be on advanced training and performance of the most advanced band literature. ***Marching Band is not required but highly encouraged.***

HONORS SYMPHONIC BAND I

Prerequisite: Audition (instrumentation limited), Recommendation of Placement Committee

Class Availability: 11th Grade

Required Fee: \$20.00

Performance oriented class. Students will perform concerts throughout the year. The focus will be on advanced training and performance of the most advanced band literature. ***Marching Band is not required but highly encouraged.***

HONORS SYMPHONIC BAND II

Prerequisite: Audition (instrumentation limited), Recommendation of Placement Committee

Class Availability: 12th Grade

Required Fee: \$20.00

Performance oriented class. Students will perform concerts throughout the year. The focus will be on advanced training and performance of the most advanced band literature. ***Marching Band is not required but highly encouraged.***

WOMEN'S CHORALE

Prerequisite: Written recommendation from previous choral director is required or approval from Miss Setzer

Class Availability: 9th -12th Grade Females

Required Fee: \$25.00

This class is a non-auditioned group of 9th, 10th, 11th, and 12th Grade girls and is performance-oriented, doing a Christmas and Spring concert as well as attending the Brevard Choral Festival. Emphasis will be placed on group as well as individual performance.