
Tuscola High School

**Course of Studies
2012-2013**



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
Joy Sollie
Valerie Ward**

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.

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>(World History, Civics & Economics, US History)</i>	
Social Studies	4
<i>(Freshmen entering 2012 and beyond)</i>	
<i>(World History, Civics & Economics, and two US History)</i>	
Health & PE Ed	1
Electives	6

(or other Requirements)

*2 Elective credits of any combination from either
Career and Technical Education
Arts Education
Second Language*

*4 Elective credits (four course concentration)
strongly recommended from one of the following:
Career and Technical Education
Arts Education
Second Language
Any other subject area (e.g. mathematics, science,
social studies, English)*

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 (Occupational English I, II, III, IV)	4
Mathematics (Occupational Math I, II, III and one must be successfully completed in the senior year)	3
Social Studies (Government/U.S. History and Self-Advocacy/ Problem Solving)	2
Science (Biology)	2
Health and P.E.	1
Occ. Prep. Ed. (Occ.Prep. I, II, III, IV, 240 hours of community-based training and 360 hours of paid employment)	6
Career/Technical (career/technical education electives)	4
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** – For 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 which is at least ten points higher than the “national average” for the previous year.
2. **Diploma** – For students who satisfy all state and local graduation requirements.

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 I, Algebra I, 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: Chemistry/Biology Block, 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 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, Music Appreciation (block)*, Accounting I (Block)*, Digital Communications (Block)*, Success 101 (Block)*, Journalism (Block)*, Psychology Honors (Block)*, African American Studies (Block)*, Leadership Development (Block)*, Medieval Studies (Block)*, Psychology (Block)*, SAT Prep (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.

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 (Algebra I, Algebra II, Geometry, and a higher level math course with Algebra II 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) Beginning 2012 (World History, Civics & Economics, and two U.S. History)
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.
24 Total Credits	This plan is effective for students who enter the 9th grade for the first time in or after 2009-2010.

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

- A. Students in grades 9-12 must achieve a minimum score of 70+ on a 100 point converted scale on the North Carolina End of Course tests to be eligible for course credit. Students will take the North Carolina End-Of-Course tests in all courses for which End-of-Course tests are available, both state mandated and local option. The End-of Course test scores for the courses which students are enrolled shall count twenty-five percent (25%) of a student's final grade. (Board policy C 4 E)
- B. Students not taking the North Carolina End-of-Course test (s) for courses in which they are currently enrolled will automatically receive a failing grade for the course.

II. High School Promotion Requirements

- A. To enter the tenth grade, a student must have earned a minimum of five units of credit. One of these must be English I.
- B. To enter the eleventh grade, a student must have earned a minimum of ten units of credit. Two of these must be English I & II.
- C. To enter the twelfth grade, a student must have earned seventeen units of credit. Two of these units must be in English I & II and it must be possible for all other graduation requirements to be met during the upcoming year.

CRIMINAL JUSTICE I 7899U1

Class availability: 11th, and 12th Grade

Taught at Tuscola High School

Criminal Justice is a course serving as an introduction to studies in corrections, law enforcement, and security and safety services. Students will acquire basic knowledge, skills, and attitudes in the subject areas associated with criminal justice. It will also cover the juvenile system and related juvenile issues.

CRIMINAL JUSTICE II 7899U2

Prerequisite: Criminal Justice I

Class availability: 11th, and 12th Grade

Taught at Tuscola High School

This course introduces deviant behavior as it related to criminal activity. Topics include theories of crime causation; statistical analysis of criminal behavior; past present and future social control initiatives and other related topics. It will also include the introduction of fundamental law enforcement operations.

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.

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. Completing Machining I in the first year and then completing Machining II in the second year will result in a *Certificate of Machining Technology* and 18 college credits.

HCC 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. **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. **Students must provide own transportation .**

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. This course is taught at Haywood Community College. **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. This course is taught at Haywood Community College. **Students must provide own transportation.**

GRADE POINT AVERAGE AND 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.

The following scale applies to unweighted courses:

A=4 points

B=3 points

C=2 points

D=1 point

F=0 points

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 scales apply to Honors, Advanced, and AP courses:

Honors/

Advanced

Advanced

Placement

A=5 points

A=6 points

B=4 points

B=5 points

C=3 points

C=4 points

D=2 points

D=3 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

Honors English I, II, III, IV Pre-Calculus
Advanced Algebra II Advanced Geometry
Advanced Biology II Advanced Physics
Advanced Chemistry II Spanish III, IV
French III, IV Honors Art III, IV
Symphonic Band III, IV Honors Discrete Math
Honors Calculus
NCVPS Honors Classes
Honors: The U.S. and World Affairs Since WW II

6 Point Classes

AP English AP Environmental Science
AP Calculus AP U.S. History
AP Biology AP French
AP Physics AP Spanish
AP Statistics NCVPS AP Courses

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.

MISCELLANEOUS

MEDIA ASSISTANT 95152Y

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.

ENRICHMENT ELECTIVES

PEER HELPING 95202PH

Class Availability: 11th Grade, 12th Grade

Prerequisite: 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 95202PT

Class Availability: 11th Grade, 12th Grade

Prerequisite: *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.

3AEROSPACE SCIENCE II (AS-II) 95022Y

Prerequisite: Completion of AS-I

Class Availability: 10th Grade, 11th Grade, 12th Grade **Fee required**

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. Friday classes will typically be devoted to drill & ceremony or health and wellness to include physical training (PT).

AEROSPACE SCIENCE III (AS-III) 95032Y

Prerequisite: Completion of AS-I and AS-II

Class Availability: 11th Grade, 12th Grade **Fee required**

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. Friday classes will typically be devoted to drill & ceremony or health and wellness to include physical training (PT).

*AEROSPACE SCIENCE IV (AS-IV) 95042Y

Credit: 1 Unit

Prerequisite: Completion of AS-I, AS-II, and AS-III

Class Availability: 12th grade **Fee required**

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. Friday classes will typically be devoted to drill & ceremony or health and wellness to include physical training (PT), as well as cadet-run leadership application exercises.

COURSE SELECTIONS

ENGLISH

ENGLISH I 10212B, 10212C

Prerequisites: Committee Placement

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.

HONORS ENGLISH I 10215Y

Prerequisite: Assessment and Committee Placement

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 10222B, 10222C

Prerequisite: English I and Committee Placement

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, utilization of technology to 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.

HONORS ENGLISH II 10225Y

Prerequisites: English I, Assessment, and Committee Placement

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 10232B, 10232C

Prerequisites: English II and Committee Placement

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.

HONORS ENGLISH III 10235A

Prerequisites: English II, Assessment, and Committee Placement

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.

WELDING I 76612Y

Class Availability: 10th Grade, 11th Grade

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

***WELDING II 76622Y**

Prerequisite: Welding I

Class Availability: 11th Grade, 12th Grade

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

WELDING III/ADVANCED STUDIES 79992W3

Prerequisite: Welding II, Recommendation of Placement Committee

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.

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.

AEROSPACE SCIENCE I (AS-I) 95012Y

Fee required

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.

AS-1 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. Friday classes will typically be devoted to drill & ceremony or health and wellness to include physical training (PT).

MASONRY I 77112Y

Prerequisite: Completion of 9th Grade

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 / ADVANCED STUDIES 77122Y, 79992M2

Prerequisite: Masonry I, Recommendation of Placement Committee

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 / ADVANCED STUDIES 77132Y, 79992M3

Prerequisite: Masonry II, Recommendation of Placements Committee

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.

CORE AND SUSTAINABLE CONSTRUCTION 77002

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". The additional Green module has been added to provide students with instruction in the green environment, green construction practices, and green building rating systems. Also it will help students better understand their personal impacts on the environment and make them more aware of how to reduce their carbon footprint. Work-based learning strategies appropriate for this course include apprenticeship, cooperative education, internship, and job shadowing. This course helps prepare students for additional National Center for Construction Education and Research (NCCER) Core certification. Skills USA competitive events, community service, and leadership activities provide the opportunity to apply essential standards and workplace readiness skills through authentic experiences.

AP ENGLISH LANGUAGE AND COMPOSITION/ ENGLISH III 10337

Prerequisites: English II, Assessment, and Committee Placement

Summer Reading Required

Class Availability: 11th Grade

Required Fee: Approximately \$87.00 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 10242B, 10242C

Prerequisites: English III and Committee Placement

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.

HONORS ENGLISH IV 10245H

Prerequisites: English III, Assessment, and Committee Placement

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.

AP ENGLISH LANGUAGE AND LITERATURE/ ENGLISH IV 10347

Prerequisites: English III, Assessment, and Committee Placement

Summer Reading Required

Required Fee: Approximately \$87.00 for AP Exam

The Advanced Placement English Language 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 multiple Shakespearean plays.

MATH**ALGEBRA I BLOCK 20632BL, 20232BL**

Prerequisite: Completion of 8th grade math with a required recommendation from a selection committee.

Class Availability: 9th Grade

Algebra I-Block consists of two class periods of Foundations of Algebra in the fall semester and two class periods of Algebra I in the spring semester. It is a course designed to teach students the concepts of algebra, properties and operations of real numbers, linear equations and inequalities, ratio, proportion and percents, operations and polynomials, and simplifying algebraic fractions. Other concepts to be studied will include relations and functions, radical expressions, systems of equations and inequalities, exploring graphs, and interpreting nonlinear equations. Appropriate technology will be used regularly for instruction and assessment.

ALGEBRA I 20232BB, 20232CC

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

TRADES AND INDUSTRY**FUNDAMENTALS OF TECHNOLOGY 81102Y**

Class Availability: 9th Grade, 10th Grade

Study of the four areas of technology: communication, manufacturing, structural, and transportation systems. Hands-on in, aerodynamics, audio broadcasting, aviation, computer aided drafting (CAD), electrical & plumbing, graphic communications, meteorology & weather, process control, structural engineering, and TV/video production.

COMPUTER ENGINEERING TECH. I 79912B***COMPUTER ENGINEERING TECH. II 79922B**

Class Availability: 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. At the completion of both levels, students will be prepared for the A+ Certification Exam. On successful completion of the A+ Certification Exam CET II will be a 5 point class.

DRAFTING I 79212Y

This course is an introduction to the nature of drafting. Ideas and concepts will be explored in the areas of architecture, manufacturing, engineering, science and math. Topics include sketching, geometric construction techniques, orthographic projection, CAD (Computer Aided Drafting) and 3-D modeling.

***ARCHITECTURAL DRAFTING II 79622Y**

Prerequisite: Drafting I—Teacher Recommendation

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.

ARCHITECTURAL DRAFTING III - ADVANCED STUDIES 79992YD

Prerequisite: Drafting II, Teacher recommendation

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.

PARENTING/CHILD DEVELOPMENT 70652Y

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

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 71512

Class Availability: 11th and 12th Grade

Required Fee: \$5.00

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.

FAMILY AND CONSUMER SCIENCES ADVANCED STUDIES*Foods 71992A /Apparel Dev. 71992B**

(Must designate Foods or Apparel Development)

Required fee of \$21.00 for Foods Class

Prerequisite: Three technical credits in Family and Consumer Sciences

Education, Teacher recommendation required if not in pathway

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.

GEOMETRY 20302BB, 2032CC

Prerequisite: Algebra I

Geometry continues students' study of geometric concepts building upon middle school topics. Students will move from an inductive approach to deductive methods of proof in their study of two- and three-dimensional geometric figures. Reasoning skills will be emphasized and students will broaden their use of the coordinate plane. Appropriate technology, from manipulatives to calculators and graphics software, will be used regularly for instruction and assessment.

GEOMETRY BLOCK 20292BL, 20302BL

Prerequisite: Algebra I

Consists of two class periods of Foundations of Geometry in the Fall Semester and two class periods of Geometry in the Spring Semester. Geometry continues students' study of geometric concepts building upon middle school topics. Students will move from an inductive approach to deductive methods of proof in their study of two- and three-dimensional geometric figures. Reasoning skills will be emphasized and students will broaden their use of the coordinate plane. Appropriate technology, from manipulatives to calculators and graphics software, will be used regularly for instruction and assessment.

ADVANCED GEOMETRY 20305Y

Prerequisite: B or higher or C with teacher approval in 8th grade Algebra I or Minimum 95 average in 9th grade Algebra I, Minimum EOC score of level IV, current teacher recommendation, and approval of Math Placement Committee

This course is similar to geometry but is a deeper study of geometric concepts and progresses at a faster pace. (more project/proof based)

ALGEBRA II 20242BB, 20242CC

Prerequisite: Geometry

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

ADVANCED ALGEBRA II 20245Y

Prerequisite: B or higher or C with teacher approval in Advanced Geometry or Minimum 95 average in 10th grade Geometry, current teacher recommendation, and approval of Math Placement Committee

This course covers the same material as Algebra II, but also includes a study of trigonometric functions, triangle trigonometry, sequences, series, and probability.

HONORS DISCRETE MATHEMATICS 20505Y

Prerequisite: Algebra II, B or higher or C with teacher approval.

Class Availability: 11th or 12th Grade

Discrete Mathematics introduces students to the mathematics of networks, social choice, and decision making. The course extends students' application of matrix arithmetic and probability. Applications and modeling are central to this course of study. Appropriate technology, from manipulatives to calculators and application software, should be used regularly for instruction and assessment.

ADVANCED FUNCTIONS & MODELING 20252Y

Prerequisite: Algebra II

Class Availability: 11th Grade, 12th Grade

Advanced Functions and Modeling provides students an in-depth study of modeling and applying functions. Topics include sequences and series, matrices probability, statistics, logarithms, and trigonometry. Appropriate technology will be used regularly for instruction and assessment.

PRE-CALCULUS 20705Y

Prerequisite: B or higher or C with teacher approval in Advanced Algebra II or minimum 95 average in 11th grade Algebra II, minimum EOC score of level IV, current teacher recommendation, and approval of Math Placement Committee.

Class Availability: 11th Grade, 12th Grade

Pre-Calculus provides students an honors-level study of trigonometry, advanced functions, analytic geometry, and data analysis in preparation for calculus.

Applications and modeling should be included throughout the course of study.

Appropriate technology, from manipulatives to calculators and application software, will be used regularly for instruction and assessment.

AP CALCULUS 20767Y

Prerequisite: Pre-Calculus, Application, Teacher recommendation

Class Availability: 12th Grade

Required Fee: Approximately \$87.00 for AP Exam

This course teaches many of the same concepts as Calculus, but is a deeper study of Calculus concepts, progresses at a much faster pace, and incorporates extensive preparation for the AP Exam.

***FOODS II – Enterprise 70462Y**

Prerequisite: Foods I or Culinary Arts and Hospitality I

Recommended Maximum Enrollment: 20* (or 4-5 per laboratory kitchen)

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.**

APPAREL I 70352Y

Class Availability: 10th Grade, 11th Grade, 12th 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 II 70362Y**

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.

ALLIED HEALTH SCIENCE II 72122Y

All students will be required to purchase a uniform, shoes, nametag, patch and a watch with a second hand. Student must have transportation and a valid Driver's License.

Prerequisite: Must pass Allied Health Science I, Recommendation of Placement Committee

Class Availability: 12th Grade

AHS II is a course designed to prepare the student for a career in health care. Students receive instruction and clinical experience in the following areas: employment, first aid/CPR, diagnostic procedures, patient care measures, clerical skills, safety precautions, and appropriate medical terminology. Students will receive at least 60 hours of clinical experience in a variety of health care agencies in Haywood County. This course requires 2 class periods. **This class is limited to 16 seniors per class.** This course is the required complete course for the Health Science track. Certified Nursing Assistant Program offered with this course. Fee will be required.

FAMILY AND CONSUMER SCIENCE

TEEN LIVING 70152Y

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 I 70452Y

Class Availability: 10th Grade, 11th Grade

Recommended Maximum Enrollment: 20* (or 4-5 per laboratory kitchen)

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.**

AP STATISTICS 20667Y

Prerequisite: C or higher in Pre-calculus or A in Advanced Algebra II or B in Advanced Algebra II with AP Statistics teacher approval.

Class Availability: 11th Grade, 12th Grade

Required Fee: Approximately \$87 for the AP Exam

Advanced Placement Statistics introduces students to the major 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.

SCIENCE

EARTH/ENVIRONMENTAL SCIENCE 30382Y

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.

BIOLOGY 30202Y

Prerequisite: Earth/Environmental Science

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

CHEMISTRY/BIOLOGY BLOCK 30502B 30202B

Prerequisite: Algebra I, Teacher recommendation

Corequisite: Algebra II or Geometry

Class Availability: 10th Grade

This is a block class taught at an accelerated pace. A study of basic principles of chemistry with emphasis on atomic structure, chemical reactions and equations, chemical analysis, environmental chemistry and laboratory practices. Also included is a study of cellular, organismic, and ecological levels of the living world.

PHYSICAL SCIENCE 30102Y

Class Availability: 11th Grade, 12th Grade

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

CHEMISTRY I 30502Y

Prerequisite: Geometry and Biology I

Corequisite: Algebra II or higher math class

Class Availability: 11th Grade, 12th Grade

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

ADVANCED CHEMISTRY II 30515Y

Prerequisite: Chemistry I with a grade of "A" or "B",

Application and Recommendation required

Class Availability: 11th Grade, 12th Grade

Advanced Chemistry II 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, advantitrations, organic nomenclature, esterification, saponification, crystal structure, forensic science, polymerization, distillation, and analytical chemistry.

ADVANCED BIOLOGY II 30215Y

Prerequisite: Biology and Chemistry, Application Required

Class Availability: 11th Grade, 12th Grade

Advanced Biology II 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.

HEALTH OCCUPATIONS**HEALTH SCIENCE I 72402**

Corerequisite: Biology

Class Availability: 10th 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 72422

Prerequisite: Health Science I

Class Availability: 11th 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.

HEALTH TEAM RELATIONS 72102

Class Availability: 9th Grade

This course is designed to assist potential health care workers in their role and function as health team members. Topics include terminology, the history of health care, health care agencies, ethics, legal responsibilities, careers, holistic health, human needs, change, cultural awareness, communication, medical math, leadership, and career decision making. English language arts are reinforced. Work-based learning strategies appropriate for this course include service learning, field trips, and job shadowing. Apprenticeship and cooperative education are not available for this course. English language arts and social studies are reinforced in this course. Health Occupations Students of America (HOSA) competitive events, community service, and leadership activities provide the opportunity To apply essential standards and workplace readiness skills to authentic experiences.

MICROSOFT IT ACADEMY 64172**MICROSOFT WORD, POWERPOINT, AND PUBLISHER**

Prerequisite: Teacher signature required.

Class Availability: 9th, 10th, 11th, and 12th Grade.

Required Fee: \$9.00 - All Business Classes

Students in Microsoft IT Academies 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, Microsoft PowerPoint, and Publisher to create, customize, and publish a document. Upon completion of this course students will have the opportunity to become **certified through Microsoft** with an industry recognized certification.

MULTIMEDIA & WEBPAGE DESIGN 64122Y

Pre-requisite: Teacher signature required.

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

Required Fee: \$9.00 – All Business Classes

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 87162**

Class Availability: 11th and 12th Grade

\$9.00 Fee Required

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 62152**

Prerequisite: 8721 Principles of Business & Finance

Curriculum Area: Business and Technology

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.

AP ENVIRONMENTAL SCIENCE 30427Y

Prerequisite: Biology, Chemistry, Application and recommendation

Summer reading required.

Class Availability: 11th Grade, 12th Grade

Required Fee: Approximately \$87.00 for AP Exam

The 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 30217Y

Prerequisite: Biology, Chemistry, Application, and Teacher recommendation

Summer Reading required

Class Availability: 11th Grade, 12th Grade

Required Fee: Approximately \$87.00 for AP Exam

The AP Biology course is designed to be the equivalent of two semesters of college level biology. The curriculum emphasizes inquiry at the molecular, cellular, and organismic levels. Students will breed fruit flies and track the inheritance of genetic traits through several generations. All topics in this class are framed in an evolutionary context which is introduced through summer reading prior to class.

ADVANCED PHYSICS 30605Y

Prerequisite: Chemistry and Algebra II with grades of A or B and Application

Corequisite: 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**WORLD HISTORY 402429**

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 40522Y

Prerequisite: Completion of 9th Grade

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

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

U.S. HISTORY 40212Y

Prerequisite: Civics and Economics, World History

Class Availability: 11th Grade, 12th Grade

This course is required for graduation. Students build on a historical perspective gained from the 8th grade study of North Carolina, on economic and political perspectives gained from the study of Civics and Economics, and on world studies. 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.

AP U.S. HISTORY 40217Y

Prerequisite: Civics and Economics, Application, Teacher Recommendation

Summer Reading required

Class Availability: 11th Grade

Required Fee: Approximately \$87.00 for AP Exam

Interested juniors must make application 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.

HONORS: WORLD AFFAIRS 40105Y

Prerequisite: Application and recommendation required

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.

WORLD LANGUAGES**SPANISH I 10512Y**

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.

***LANDSCAPE CONSTRUCTION AND MAINTENANCE 68822Y**

Prerequisite: Horticulture I and II, Teacher recommendation required

Class Availability: 11th Grade, 12th Grade

Required Fee: \$10.00

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.

BUSINESS TECHNOLOGIES**CAREER MANAGEMENT 61452**

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 62002Y

Required Fee: \$9.00 – All Business Classes

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 87262

Prerequisite: None

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

\$9.00 Fee Required

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

AGRICULTURAL MECHANICS I 68312Y

Prerequisite: Completion of Agriscience Applications recommended

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

Required Fee: \$10.00

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.

***AGRICULTURAL MECHANICS II 68322Y**

Prerequisite: Agricultural Mechanics I

Class Availability: 11th Grade, 12th Grade

Required Fee: \$10.00

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 68412B

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

Required Fee: \$10.00

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 68422Y**

Prerequisite: Horticulture I

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

Required Fee: \$10.00

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.

SPANISH II 10522Y

Prerequisite: Spanish I

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 10522A

Prerequisite: Spanish I with a “B” average, Teacher Recommendation

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 individual development and performance.

SPANISH III 10535Y

Prerequisite: Spanish II, 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 Hispanic literature. There is a strong emphasis on class discussion in Spanish.

SPANISH IV 10545Y

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 (COMBO) 10557Y

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 10412Y

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 10422Y

Prerequisite: French I

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 10435Y

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 10445Y

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 – BOYS 90112G****GIRLS 90112f**

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.

ATHLETIC WEIGHTS/HEALTH – BOYS 90112H

Teacher recommendation required

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.

TEAM SPORTS – BOYS 90152D**GIRLS 90152I**

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.

PUBLICATIONS 10322Y

Prerequisite: 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.

AGRICULTURE/HORTICULTURE

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

AGRISCIENCE APPLICATIONS 68102Y

Class Availability: 9th Grade

Required Fee: \$10.00

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 I 68112Y

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

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

Required Fee: \$10.00

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.

ART II 54162Y

Prerequisite: A/B in Art 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 is taught every Wednesday.

HONORS ART III 54175A

Prerequisite: Completion of Art 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.

HONORS ART IV 54175B

Prerequisite: Completion of Honors Art A 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.

WEIGHTS– BOYS 90152B

Teacher recommendation required

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.

WEIGHTS – GIRLS 901528

Teacher recommendation required

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

Development of muscular strength and endurance, flexibility and agility. Dress-out required. Participation in a sport is required.

MUSIC**CONCERT BAND I 52552Y**

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.

CONCERT BAND II 52562Y

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 52572Y

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 525751

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 525752

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 52312Y

Prerequisite: Written recommendation from previous choral director is required or approval from Mrs. Wise.

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.

CONCERT CHOIR 52322B

Prerequisite: Written recommendation from previous choral director, or approval from Mrs. Wise.

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 52322C

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 consist of approximately 20 members. The class will be performance-oriented, doing a Broadway Review show, a Christmas and Spring concert as well as attending the Brevard Choral Festival and a performance trip.

SUMMIT 52322A

Prerequisite: Audition Only

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

Required Fee: \$25.00

This class will be performance-oriented, doing several concerts throughout the year including a Country-Western Show, a Christmas concert, a Spring concert and a performance trip. This group performs as a show choir and consists of 22 members.

INTRODUCTION TO MUSIC 52202

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 52302

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**ART I 54152Y**

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 is taught every Wednesday.