

MADISON HIGH SCHOOL CURRICULUM DIRECTORY



2011-2012

Table of Contents

NC Course of Study Graduation Requirements.....	2
General Information.....	4
English Department	5
Mathematics Department.....	7
Science Department	9
Social Studies Department.....	11
Foreign Language Department	12
Fine Arts Department.....	13
Junior Reserve Officers Training Corps (JROTC).....	16
Physical Education.....	17
Exceptional Children’s Department.....	17
Career and Technical Education Courses	
Agriculture and Natural Resources	19
Business and Information Technology	21
Career Management.....	23
Family and Consumer Science.....	24
Health Occupations.....	26
Marketing.....	28
Trade and Industrial	30
Work Based Learning.....	33
APEX	34
AB Tech/Dual Enrollment Courses.....	34
Learn & Earn Online Courses.....	36
Honors Program/Dual Enrollment/Grading Scales.....	41
Madison High School Pathway.....	43
North Carolina Career Clusters.....	44

NC COURSE OF STUDY GRADUATION REQUIREMENTS

For Ninth Graders Entering Between 2000 – 2008-09				For Ninth Graders Entering in 2009-10 and Later
CONTENT AREA	CAREER PREP Course of Study Requirements	COLLEGE-TECH PREP* Course of Study Requirements	COLLEGE-UNIVERSITY PREP Course of Study Requirements	FUTURE CORE READY Course of Study Requirements
English	4 Credits English I, II, III, IV	4 Credits English I, II, III, IV	4 Credits English I, II, III, IV	4 Credits I, II, III, IV
Mathematics	3 Credits Including Algebra I	3 Credits Algebra I, Geometry, Algebra II OR Algebra I, Technical Math I, Technical Math II	4 Credits Algebra I, Geometry, Algebra II & a higher level Math course with Algebra II as a prerequisite.	4 Credits Algebra I, Geometry, Algebra II OR Integrated Math I, II, III 4th Math Course to be aligned with the student's post high school plans
Science	3 Credits A Physical Science Biology Earth/Environmental Science	3 Credits A Physical Science Biology Earth/Environmental Science	3 Credits A Physical Science Biology Earth/Environmental Science	3 Credits A Physical Science course Biology Earth/Environmental Science
Social Studies	3 or 4 Credits World History US History Civics (Government/Economics)	3 or 4 Credits World History US History Civics (Government/Economics)	3 or 4 Credits World History US History Civics (Government/Economics)	3 Credits Civics and Economics US History World History
Second Language	Not Required	Not Required	2 Credits in the same language	Not required for high school graduation. <i>A two credit minimum is required for admission to a university in the UNC system.</i>
Health and Physical Education	1 Credit Health/Physical Education	1 Credit Health/Physical Education	1 Credit Health/Physical Education	1 Credit Health/Physical Education
Career/Technical	4 Credits in Select courses appropriate for career pathway to include a second level (advanced) course.	4 Credits Select courses appropriate for career pathway to include a second level (advanced) course.	Not required	

NC COURSE OF STUDY GRADUATION REQUIREMENTS (continued)

CONTENT AREA	CAREER PREP Course of Study Requirements	COLLEGE-TECH PREP Course of Study Requirements	COLLEGE-UNIVERSITY PREP Course of Study Requirements	FUTURE CORE READY Course of Study Requirements
JROTC	4 Credits in JROTC; OR			
Arts Education (Dance, Music, Theatre Arts, Visual Arts)	4 Credits in an Arts Discipline Select courses appropriate for an arts education pathway to include an advanced course.			
	Recommended: at least one credit in an arts discipline and/or requirement by local decision (for students not taking an arts education pathway)	Recommended: at least one credit in an arts discipline and/or requirement by local decision	Recommended: at least one credit in an arts discipline and/or requirement by local decision	
Electives or other requirements	Proficiency on Competency Reading & Math Test Proficiency on Computer Skills Performance & Multiple Choice Tests Exit Exam	Proficiency on Competency Reading & Math Test Proficiency on Computer Skills Performance & Multiple Choice Tests Exit Exam	Proficiency on Competency Reading & Math Test Proficiency on Computer Skills Performance & Multiple Choice Tests Exit Exam	6 Credits required 2 Elective credits of any combination from either: – Career and Technical Education (CTE) – Arts Education – Second Languages 4 Elective credits strongly recommended (four course concentration) from one of the following: – Career and Technical Education (CTE) – JROTC – Arts Education (e.g. dance, music, theater arts, visual arts) – Academic (e.g. mathematics, science, social studies, English)
Total	28 Credits plus any local requirements	28 Credits plus any local requirements	28 Credits plus any local requirements	28 Credits plus any local requirements
*Completion of 300 hours of school-based training, 240 hours of community-based training, and 360 hours of paid employment.				

GENERAL REGISTRATION INFORMATION

Madison High School's academic year is made up of a Fall semester and a Spring semester with 90 days in each semester. Students take four classes each semester that are 90 minutes in length. Except for year-long courses, students complete four courses each semester and earn 1 credit for each course.

Students are required to register for eight classes and two alternate elective courses, which will be scheduled if first choice electives are not available.

Schedule change request forms will only be available during the advisor/advisee meetings scheduled during the first three days of school. Any request for changes on your schedule must be signed by your advisor and turned into the Guidance Office for review by your counselor.

NORTH CAROLINA ACADEMIC SCHOLARS PROGRAM

To qualify for NC Scholar recognition the following requirements must be met by graduation:

- 3.5 unweighted GPA
- 4 Credits in English
- 4 credits in Math: Algebra I, Geometry, Algebra II and a higher math
- 3 credits in Science: Biology, Earth/Environmental, Chemistry or Physics
- 3 credits in Social Studies: US History, World History, Civics
- 2 credits in same foreign language
- 1 credit in healthful living
- 1 credit in Career and Technical Education
- 1 credit in a Fine Arts course: music, art, drama, band
- 5 credits of elective courses to include at least two second level or advanced courses.

ENGLISH DEPARTMENT

English I*

GPA Weight:	4.0
Prerequisite:	None
Credit:	1
Grade Level:	9

This course focuses on the development of reading and writing skills. It involves the study of various genres of literature, as well as the mastery of vocabulary, grammar, mechanics, and other composition skills. Speaking and critical listening skills, as well as test-taking strategies are also a central focus. Successful completion of this course is required to fulfill the English I graduation requirement and receive credit.

**This is a year long course.*

English I 102129

GPA Weight:	4.0
Prerequisite:	None
Credit:	1
Grade Level:	10-11

This course focuses on the development of reading and writing skills. It involves the study of various genres of literature, as well as the mastery of vocabulary, grammar, mechanics, and other composition skills. Speaking and critical listening skills, as well as test-taking strategies are also a central focus. Successful completion of this course is required to fulfill the English I graduation requirement and receive credit.

English I-Honors 102159

GPA Weight:	5.0
Prerequisites:	At least three of the following criteria must be met: <ul style="list-style-type: none">• Minimum score of 85th percentile on the 8th grade Reading EOG test• Minimum level III or IV on North Carolina State 7th grade writing test• 95 average in 8th grade ELA• Recommendation of previous English Teacher
Credit:	1
Grade Level:	9

English I-Honors requires more intensive explorations of literature, including more challenging works. The honors English course stimulates intellectual curiosity by encouraging students to generate thought-provoking questions and topics and to research diverse sources. Honors courses will require students to work as self-directed and reflective learners, both independently and in groups, as they learn to take leadership roles. Critical thinking skills will be further cultivated through a variety of interdisciplinary perspectives. This will be reflected in the quality of student performance in oral and written language and other media/technology. *Successful completion of summer readings is a prerequisite for this course.*

READING LOGS ARE DUE THE FIRST DAY OF SCHOOL IN THE FALL SEMESTER, NO MATTER WHICH SEMESTER YOUR ENGLISH CLASS IS SCHEDULED.

English II 10222A

GPA Weight:	4.0
Prerequisites:	English I
Credit:	1
Grade Level:	10

This course centers on a study of world literature as well as works authored by contemporary writers of young adult literature. Students continue to develop mastery of writing skills in preparation for the North Carolina Writing Test. Students will further develop language, speech, viewing, listening, and vocabulary skills. Successful completion of this course meets the English II graduation requirements.

English II-Honors 10225A

GPA Weight:	5.0
Prerequisites:	At least three of the following criteria must be met: <ul style="list-style-type: none">• 88th percentile on English I EOC test• Level III or IV on 7th grade writing test• Recommendation of previous English teacher• 4.0 GPA in English I or English I-Honors
Credit:	1
Grade Level:	10

English II-Honors requires more intensive explorations of literature, including more challenging works. The honors English course stimulates intellectual curiosity by encouraging students to generate thought-provoking questions and topics and to research diverse sources. Honors courses will require students to work as self-directed and reflective learners, both independently and in groups as they learn to take leadership roles. Critical thinking skills will be further cultivated through a variety of interdisciplinary perspectives, cultivating higher order thinking skills. This will be reflected in the quality of student performance in oral and written language and other media/technology. *Successful completion of summer readings is a prerequisite for this course.*

READING LOGS ARE DUE THE FIRST DAY OF SCHOOL ON THE FALL SEMESTER, NO MATTER WHICH SEMESTER YOUR ENGLISH CLASS IS SCHEDULED.

English III **10232B**
GPA Weight: 4.0
Prerequisites: English II
Credit: 1
Grade Level: 11

This course focuses on the study of various genres of American Literature and the further study of composition skills, vocabulary development, and research writing. In addition to increasing reading and writing skills, this course further develops the mastery of speaking, critical listening and viewing skills. The successful completion of a Junior Research Project and successful completion of this course meets the English III requirement for graduation.

English III-Honors **10235B**
GPA Weight: 5.0
Prerequisites: At least three of the following criteria must be met:

- 88th percentile on English I EOC test
- Level III or IV on 10th grade writing test
- Recommendation of previous English teacher
- 4.0 GPA in English II or English II-Honors

Credit: 1
Grade Level: 11

English III-Honors requires more intensive explorations of literature, including more challenging works. The honors English course stimulates intellectual curiosity by encouraging students to generate thought-provoking questions and topics and to research diverse sources. Honors courses will require students to work as self-directed and reflective learners, both independently and in groups as they learn to take leadership roles. Critical thinking skills will be further cultivated through a variety of interdisciplinary perspectives, cultivating higher order thinking skills. This will be reflected in the quality of student performance in oral and written language and other media/technology. ***Successful completion of summer readings is a prerequisite for this course. READING LOGS ARE DUE THE FIRST DAY OF SCHOOL IN THE FALL SEMESTER, NO MATTER WHICH SEMESTER YOUR ENGLISH CLASS IS SCHEDULED.***

English IV **10242C**
GPA Weight: 4.0
Prerequisites: English III
Credit: 1
Grade Level: 12

This course focuses on clarity in written and spoken expression, as well as critical listening and viewing skills. It provides a wide, yet in-depth study of various genres of British literature and nonfiction. In this course, the further development of research skills and writing culminate in the completion of a Graduation Project. Successful completion of this course meets the English IV requirement for graduation.

English IV-Honors **10245C**
GPA Weight: 5.0
Prerequisites: At least three of the following criteria must be met:

- 88th percentile on English I EOC test
- Level III or IV on 10th grade writing test
- Recommendation of previous English teacher
- 4.0 GPA in English III or English III-Honors

Credit: 1
Grade Level: 12

This course is a prerequisite to AP English Literature and Composition second semester. It requires more intensive explorations of literature, including more challenging works. The honors English course stimulates intellectual curiosity by encouraging students to generate thought-provoking questions and topics and to research diverse sources. Honors courses will require students to work as self-directed and reflective learners, both independently and in groups as they learn to take leadership roles. Critical thinking skills will be further cultivated through a variety of interdisciplinary perspectives, cultivating higher order thinking skills. This will be reflected in the quality of student performance in oral and written language and other media/technology. An Advanced Placement (AP) option for those students capable of college level work in English while attending secondary school is an option offered with this course. Students who elect this option will take the English IV-Honors course in the fall and complete the Advanced Placement English Literature and Composition additional course in the spring. Students are expected to take the Advanced Placement Exam at the end of the year. ***Successful completion of summer readings is a prerequisite for this course. READING LOGS ARE DUE THE FIRST DAY OF SCHOOL IN THE FALL SEMESTER, NO MATTER WHICH SEMESTER YOUR ENGLISH CLASS IS SCHEDULED.***

Students must complete the Graduation Project Requirements to graduate from any North Carolina High School.

**Literature & Composition -
Advanced Placement**

GPA Weight: 10367X
6.0

Prerequisites: At least three of the following criteria must be met for placement:

- A/B in English III and IV Honors (Mandatory)
- Previous English teacher recommendation (Mandatory)
- Student commitment to the rigor of the course work as demonstrated by the parent/student/teacher contract
- Possible writing prompt

Credit: 1

Grade Level: 12

This spring semester course is open to and strongly recommended for seniors who have completed English IV Honors in the fall who plan to take the AP Exam in May. The course includes analysis of poetry, prose fiction, nonfiction, and drama. It emphasizes literature-based compositions in preparation for the exam.

STUDENTS CHOOSING TO TAKE THE ADVANCED PLACEMENT EXAM FOR COLLEGE CREDIT ARE RESPONSIBLE FOR PAYING \$25 FOR THE TEST.

Yearbook I 10312X

Yearbook II 10322X

GPA Weight: 4.0

Prerequisite: Yearbook Committee Screening/Application

Credit: 1 – 2

Grade Levels: 10 – 12

This course is designed to produce the Madison High School Yearbook. Students will make key decisions concerning yearbook publication, including selection of theme, cover design, and coverage of the school year. Students will develop the following skills: layout design, copy writing, digital imaging, photography, budgeting, marketing, bookkeeping, and deadline management. This class is available to sophomores, juniors, and seniors by application and teacher recommendation. Students may opt to take the class both semesters (2 credits) or they may take only one semester (1 credit).

MATHEMATICS DEPARTMENT

Foundations of Algebra 20182X

GPA Weight: 4.0

Credit: 1

Grade level: 9-11

This course introduces the student to basic algebra concepts. This course is taught to ensure the student's knowledge of basic Algebra before entering the Algebra program.

Algebra I*

GPA Weight: 4.0

Prerequisite: Pre Algebra taken at Madison High School

Credit: 1

Grade Level: 9

Students will complete the Algebra I curriculum in this course. This course should be taken the next semester after Foundations of Algebra if possible.

****This is a year long course.***

Geometry 20302X

GPA Weight: 4.0

Prerequisite: Completion of Algebra I

Credit: 1

Grade Level: 10-12

This course is designed for the college bound student with an emphasis on problem solving and logical reasoning. This course is required for acceptance into the University of North Carolina system of colleges and universities and most other four year colleges. A graphics calculator is strongly recommended but not required.

Geometry-Honors **20305X**
 GPA Weight: 5.0
 Prerequisite: Completion of Algebra I with a course average of 90 or above and 90 or above on Algebra I EOC
 Credit: 1
 Grade Level: 9-12
 This course is designed for the college-bound student with an emphasis on problem solving and logical reasoning. A graphics calculator is strongly recommended but not required. This course requires 40% more work outside of class than the regular Geometry course.

Technical Math I **20152X**
 GPA Weight: 4.0
 Prerequisite: Algebra I
 Credit: 1
 Grade Level: 11-12
 This course is designed for the student planning to attend a technical college or community college. Problem solving, measurement, special relationships in right triangles, transformations, and geometric applications of algebra are the topics to be studied in an application-centered environment. Labs, word problems, videos, and lots of hands on materials are used.

Technical Math II **20172X**
 GPA Weight: 4.0
 Prerequisite: Technical Math I
 Credit: 1
 Grade Level: 11-12
 This course is designed for the student planning to attend a technical college or community college. It deals with math encountered in everyday situations. Students will study advanced Algebraic concepts including quadratic and exponential functions and matrices. Labs, word problems, videos, and lots of hands on materials are used.

Algebra II **20242X**
 GPA Weight: 4.0
 Prerequisite: Geometry
 Credit: 1
 Grade Level: 10-12
 This course is designed to develop student competencies in Algebraic operations at the intermediate level.

Algebra II-Honors **20245X**
 GPA Weight: 5.0
 Prerequisite: Completion of Geometry with a course average of 80 or above.
 Credit: 1
 Grade Level: 10-12
 The basic concepts of Algebra II are covered at an accelerated rate. Students should expect 30% to 40% more homework and class work than in the standard version of this course.

Advanced Functions & Modeling **20252X**
 GPA Weight: 4.0
 Prerequisite: Algebra II
 Credit: 1
 Grade Level: 11-12
 This course is designed for the student needing to improve their math skills on a higher level than Algebra II. It is the recommended course for the student with a 90 average or less in Algebra II before taking Pre-Calculus or Calculus. This course is ideal for the junior or senior needing to take math, but not wanting to take Pre-Calculus. This course also includes Trigonometry. A graphics calculator is recommended but not required for this course.

Pre-calculus **20705C**
 GPA Weight: 5.0
 Prerequisite: An A average in Algebra II and EOC of 93% or above, or 85 or above average in Advanced Functions and Modeling
 Credit: 1
 Grade Level: 11-12
 This course covers Trigonometry, analytic functions, logarithms, and exponential growth. It is required for the exceptional math student who will be taking Calculus. A graphics calculator is recommended but not required.

SCIENCE DEPARTMENT

Physical Science

30102X

GPA Weight:

4.0

Prerequisite:

- Algebra I
- Earth Science and Biology

Credit:

1

Grade Level:

11-12

Physical Science consists of lab-based study of Chemistry, Physics, and technology. Specific topics include lab safety, the atom, chemical reactions, motion, energy, and electricity. North Carolina End-of-Course State Test is required.

Biology

30202A

GPA Weight:

4.0

Prerequisite:

Earth and Environmental Science

Credit:

1

Grade Level:

10

This course involves inquiry in investigating cells, basic macromolecules, cell structure and function, homeostasis, DNA, reproduction, mutations, gene regulation, cell specialization and cell communication. North Carolina End-of-Course State Test is required.

Biology-Honors

30205A

GPA Weight:

5.0

Prerequisite:

- Score an 86% in Honors Earth and Environmental Science
- Teacher signature

Credit:

1

Grade Level:

10

Experiments and activities are incorporated to learn Biology concepts. This course requires the use of higher order thinking skills with some outside reading and projects. This course is for the student who is capable of moving at a rapid pace. North Carolina End-of-Course State Test is required. *A science fair project is required.*

Forensic Science:

30805X

Genetics in Human Affairs

GPA Weight:

5.0

Prerequisite:

- Biology & Chemistry/Physical Science
- Pass EOC Tests w/86+
- Teacher Signature

Credit:

1

Grade Level:

11-12

This course will familiarize students with the basic principles and uses of forensic science. The course will review the basic applications of the biological, physical, chemical, medical and behavioral sciences to questions of evidence and law. Students will gain a basic understanding of the capabilities and limitations of the forensic sciences as they are presently practiced.

Chemistry I-Honors

30505X

GPA Weight:

5.0

Prerequisite:

- Algebra I & II or be enrolled in Algebra II
- Must have made an 86% or above on the Biology EOC test
- Teacher signature

Credit:

1

Grade Level:

10-12

This course is recommended for college bound students. The objective of this course is to help the student be better prepared for College Chemistry. This course is taken to a level beyond Chemistry I; there is more problem solving. North Carolina End-of-Course State Test is required. *A science fair project is required.*

Chemistry II

30515X

GPA Weight:

5.0

Prerequisite:

- Chemistry I
- Must have made 86% or above on Chemistry I EOC test
- Teacher signature

Credit:

1

Grade Level:

11-12

Chemistry II is a continuation of Chemistry I designed for students who need a more in-depth study of Chemistry for their career plans and future educational studies requiring a broader knowledge of the subject. *A science fair project is required.*

Earth/Environmental Science*

GPA weight: 4.0
 Prerequisite: None
 Credit: 1
 Grade Level: 9

The earth/environmental curriculum focuses on the function of the earth's systems. Emphasis is placed on matter, energy, crustal dynamics, environmental awareness, and the cycles that circulate energy and material through the earth system.

**This is a year long course.*

Earth/Environmental Science 30382X

GPA weight: 4.0
 Prerequisite: None
 Credit: 1
 Grade Level: 10-12

The earth/environmental curriculum focuses on the function of the earth's systems. Emphasis is placed on matter, energy, crustal dynamics, environmental awareness, and the cycles that circulate energy and material through the earth system.

Earth/Environmental Science – Honors 30385X

GPA weight: 5.0
 Prerequisite: Score an 86% or higher on 8th grade EOG Science test
 Credit: 1
 Grade Level: 9

The earth/environmental curriculum focuses on the function of the earth's systems. Emphasis is placed on matter, energy, crustal dynamics, environmental awareness, and the cycles that circulate energy and material through the earth system. *A science fair project is required.*

Human Anatomy & Physiology-Honors 30222X

GPA weight: 5.0
 Prerequisite:

- Biology and Physical Science/Chemistry
- Score and 86% or higher on the EOC test in Biology or Physical Science

 Credit: 1
 Grade Level: 11-12

This course includes an in-depth look at the human body. It includes a study of the ten major organ systems ranging from the nervous system to the immune system. It is an advanced course, with memorization and required physiology lab work. This course is recommended for all students considering a career in the health care field.

Physics I 30605X

GPA Weight: 5.0
 Prerequisite:

- Biology and Algebra II
- Teacher signature

 Credit: 1
 Grade Level: 11-12

Physics is the study of falling apples, rolling cars, electric guitars, “curve balls,” microwave ovens, cement too hot to walk barefoot on, and the particles that make all these things what they are. The course is structured around lab work and demonstrations that strive to identify physics in our own lives. Formal topics to be covered include; mechanics, kinetics, thermodynamics, wave mechanics, electricity, magnetism and particles. *A science project is required.*

Physics - Advanced Placement 30637X

GPA Weight: 6.0
 Prerequisite:

- Physics I
- Teacher signature

 Credit: 1
 Grade Level: 11-12

This course focuses on the advanced concepts found in a university Physics course. Advanced Placement Physics is an extension of the Honors Physics course with emphasis on the topics of mechanics, waves, thermodynamics and, electricity and magnetism.

STUDENTS CHOOSING TO TAKE THE ADVANCED PLACEMENT EXAM FOR COLLEGE CREDIT ARE RESPONSIBLE FOR PAYING \$25 FOR THE TEST.

SOCIAL STUDIES DEPARTMENT

Success and Leadership Seminar (SLS)*

GPA Weight:	4.0
Prerequisite:	None
Credit:	1
Grade Level:	9

This course will introduce students to the skills necessary for a successful high school career. Students will investigate note taking skills, preparedness and organization, research papers, speaking in class, and computer research literacy. This course will also expose students to World Geography, personal finance, the ability to read maps, graphs and charts, and current events on a local, state, national and global level. Students will read Sean Covey's 7 Habits of a Successful Teen.

**This is a year long course*

World History 40242X

GPA Weight:	4.0
Credit:	1
Grade Level:	10

Inventions, development and discoveries made by different civilizations in Egypt, Mesopotamia, India, China, Europe and the America's are emphasized. Different religions and cultures of the world are discussed. The course begins when humans lived in the Stone Age and continues through the atomic age. This course satisfies NC graduation requirements.

World History – Honors 40245X

GPA Weight:	5.0
Prerequisite:	None
Credit:	1
Grade Level:	10

This is an accelerated version of the required World History course. Students should expect 30% more work than the regular World History course. This course satisfies NC graduation requirements.

U.S. History 40212X

GPA Weight:	4.0
Prerequisite:	World History
Credit:	1
Grade Level:	11

This course will introduce the student to economic, social, political, cultural and military history of the United States from the colonial period to the present. Students will continue to develop writing, reading, and reasoning skills. North Carolina End-of-Course State Test is required. This course satisfies NC state graduation requirements in U.S. History.

U.S. History-Honors 40215X

GPA Weight:	5.0
Prerequisite:	<ul style="list-style-type: none">• A/B Average in Social Studies Courses• Completion of World History
Credit:	1
Grade Level:	11

This is an accelerated version of the required U.S. History course. Students should expect 30% more work than the regular U.S. History course. North Carolina End-of-Course State Test is required. This course satisfies NC graduation requirements.

U.S. History - 40217X

Advanced Placement

GPA Weight:	6.0
Prerequisite:	<ul style="list-style-type: none">• Recommendation of Social Studies and English teachers• Top 15% of class• Completion of World History
Credit:	2
Grade Level:	11

This college level course will introduce the student to the economic, social, political, cultural, intellectual, and military history of the United States. A substantial amount of reading is required for this course. In addition, students will be expected to utilize advanced reading, writing, and reasoning skills. Upon successful completion of the course, students will take an Advanced Placement exam in U.S. History in May. Colleges award college credit hours based on the Advanced Placement exam score. North Carolina End-of-Course State Test is required. This course satisfies NC graduation requirements.

This is a year-long course.

STUDENTS CHOOSING TO TAKE THE ADVANCED PLACEMENT EXAM FOR COLLEGE CREDIT ARE RESPONSIBLE FOR PAYING \$25 FOR THE TEST.

Civics and Economics 40522X

GPA Weight: 4.0

Credit: 1

Grade Level: 12

This course introduces students to the basics of the U.S. governmental and economic systems. Study will include the U.S. Constitution, the Bill of Rights, all essentials of federal, state, and local government as well as units on the role of political parties and law. The course also explores the basic economic principles of capitalism and the free enterprise system. The role of consumers, producers, and the government are examined thoroughly with additional emphasis on supply and demand, taxes, monetary and fiscal policy, labor unions, and Federal Reserve. The North Carolina End-of-Course State Test is required. This course satisfies NC graduation requirements.

Civics and Economics- Honors 405255

GPA Weight: 5.0

Prerequisite: A/B in previous Social Studies courses.

Credit: 1

Grade Level: 12

This is an accelerated version of the Civics and Economics course. Students should expect 30% more work than the regular Civics and Economics course. North Carolina End of Course state test is required. This course satisfies one of the North Carolina graduation requirements in Social Studies.

**Government and Politics -
Advanced Placement -2nd Semester Only**

GPA Weight: 5.0

Prerequisite:

- Recommendation of Social Studies and English Teacher
- Top 15% of class
- Completion of Civics Honors in the previous semester

Credit: 1

Grade Level: 12

This is a college level course that provides students with depth in the underlying principles of American Government. A substantial amount of reading is required for this course. Students utilize advanced reasoning skills to interpret data about US Government. Students will take the Advanced Placed Government test in May. Colleges award credit hours based on Advanced Placement scores.

STUDENTS CHOOSING TO TAKE THE ADVANCED PLACEMENT EXAM FOR COLLEGE CREDIT ARE RESPONSIBLE FOR PAYING \$25 FOR THE TEST.

FOREIGN LANGUAGE DEPARTMENT**Spanish I 10512X**

GPA Weight: 4.0

Prerequisite: None

Credit: 1

Grade Level: 10-12

This course begins with an introduction to the listening, speaking, reading, and writing of the Spanish language. The class advances mastery of very basic vocabulary, correct pronunciation, simple grammatical structures, and simple reading, writing, listening and speaking.

Spanish II 10522X

GPA Weight: 4.0

Prerequisite: Spanish I

Credit: 1

Grade Level: 10-12

After an initial review of Spanish I, there will be continued expansion of listening, speaking, reading and writing skills. Students keep building their vocabulary, learn more complex grammar, and more culture of the Hispanic world.

Spanish III - Honors	10535X
GPA Weight:	5.0
Prerequisite:	<ul style="list-style-type: none"> • Spanish II • Proficiency Test
Credit:	1
Grade Level:	11-12

The student is given a continual review of the grammatical concepts and vocabulary introduced in Spanish I and II. Students read literary works of various genres from the Hispanic world. History, geography and culture of the various Spanish-speaking countries are the focus of many other reading selections. Grammar becomes more complex with the study of the subjunctive mood. There is more extemporaneous speaking and writing. Spanish III is an excellent class for those who did well in middle school Spanish and in high school Spanish I and II.

Spanish IV	10545X
GPA Weight:	5.0
Prerequisite:	<ul style="list-style-type: none"> • Spanish III • Proficiency Test
Credit:	1
Grade Level:	11-12

Reading, writing, listening, and speaking Spanish skills are applied to the study of Hispanic literary selections, extemporaneous conversation, compositions, and the continued study of the subjunctive mood.

FINE ARTS DEPARTMENT

Drama I	102921
Drama II	102922
Drama III	102951
Drama IV	102952
GPA Weight:	4.0
Prerequisite:	None
Credit:	1
Grade Levels:	9-12

This elective course introduces students to the basic elements of drama, its types, its history, its structure, and its evaluation. Thorough reading in a wide variety of plays is done. Emphasis is placed on improvisation and rehearsal for individual and group performances. Theater attendance is encouraged.

Visual Arts I	54152X
GPA Weight:	4.0
Prerequisite:	Interest in Art
Credit:	1
Grade Level:	9-12

Visual Arts I is open to all students who may desire exposure to art. The course offerings reflect the appropriate degree of sophistication for the beginning art student and allow for the wide range of age differences and abilities of those enrolled. Attention is directed to the fundamentals of art processes. Experimentation is encouraged. Students will be given the opportunity to explore a variety of visual arts media.

Visual Arts II	54162X
GPA weight:	4.0
Prerequisite:	Visual Arts I
Credit:	1
Grade Level:	9-12

The course is designed for those who are considering concentrating on the visual arts. Attention is given to all students; however, the degree of sophistication of art activities is tailored to individual ability. Research and art history assignments will be emphasized and should relate to studio activities. A strong emphasis on career opportunities in visual arts is a standard informational component.

Visual Arts III - Honors	54175X
GPA weight:	5.0
Prerequisite:	Visual Arts II
Credit:	1
Grade Level:	11-12

Students desiring to enroll should indicate an intention to continue their academic career at an institution of higher education and/or find related employment after high school graduation. Research and art history are standard components of the Visual Arts III curriculum, and are related to studio activities. Students will have a greater concentration in selected media designed to meet specific needs and individual abilities. Each student and the art teacher will equally share responsibility for art opportunities.

Visual Arts IV - Honors**54185X**

GPA Weight: 5.0
 Prerequisite: Visual Arts III
 Credit: 1
 Grade Level: 11-12

This course is designed for the most advanced art student who plans to pursue a career in art. Much of the curriculum for this course will be individualized.

Vocal Music I - Chorus**52302X**

GPA Weight: 4.0
 Prerequisite: none
 Credit: 1
 Grade Level: 9-12

This is an entry-level music course that continues to build on the comprehensive music education students have received in grades K-8. Participation in Music School Chorus is not required but HIGHLY recommended. Participants will continue with music reading, terminology related to proper singing and vocal production, opera, musicals and the history of vocal performance.

Vocal Music II**52312X**

GPA Weight: 4.0
 Prerequisite: Vocal Music I and Recommendation from Band Director
 Credit: 1
 Grade Level: 10-12

Vocal Music II continues to build on the comprehensive music education students have received in Vocal Music I. Vocal Music II will provide students with opportunities to:

- Develop and demonstrate advanced vocal practices and refine the use of the voice as an instrument
- Sing with increased technical accuracy and expression
- Refine sight reading and ear training skills
- Sing moderately difficult vocal literature which requires well-developed technical skills, attention to phrasing and interpretation, and ability to perform various meters and rhythms in a variety of keys.

Vocal Music III

GPA Weight: 5.0
 Prerequisite: • Vocal Music II and Recommendation from Band Director
 Credit: 1
 Grade Level: 10-12

Vocal Music III continues to build on the comprehensive music education students have received in Vocal Music I. Vocal Music II will provide students with opportunities to:

- Develop and demonstrate advanced vocal practices and refine the use of the voice as an instrument
- Sing with increased technical accuracy and expression
- Refine sight reading and ear training skills
- Sing moderately difficult vocal literature which requires well-developed technical skills, attention to phrasing and interpretation, and ability to perform various meters and rhythms in a variety of keys.

Vocal Music IV

GPA Weight: 5.0
 Prerequisite: • Vocal Music III
 • Recommendation from Band Director
 Credit: 1
 Grade Level: 10-12

Vocal Music IV continues to build on the comprehensive music education students have received in Vocal Music I. Vocal Music II will provide students with opportunities to:

- Develop and demonstrate advanced vocal practices and refine the use of the voice as an instrument
- Sing with increased technical accuracy and expression
- Refine sight reading and ear training skills
- Sing moderately difficult vocal literature which requires well-developed technical skills, attention to phrasing and interpretation, and ability to perform various meters and rhythms in a variety of keys.

Band I - Concert 52552X**Fall Semester**

GPA Weight: 4.0
 Prerequisite: Three Years of Band at Middle School or Recommendation from Director
 Credit: 1
 Grade Level: 9-12

Skills developed in this area include those in rhythm, ear training, performance, conducting, form and analysis, and music reading. Knowledge is expanded in a historical and stylistic understanding of the music being studied. This knowledge is applied to provide insights into the accurate performance of each musical selection, not only with regard to specific technical requirements of a particular piece, but to the quality of sound as well. Knowledge is also expanded continually regarding symbols, terminology, and other indications on the printed score. Experience in both solo and large and small ensemble playing is an ongoing feature of this instructional area. Students will be in the MHS Marching Band. Marching Band obligations are required if taking Band I, which involves after school rehearsal.

Band II - Concert 52562X**Spring Semester**

GPA Weight: 4.0
 Credit: 1
 Grade level: 9-12
 Prerequisite: Three Years of Band at Middle School or Recommendation from Director

Skills developed in this area include those in rhythm, ear training, performance, conducting, form and analysis, and music reading. Knowledge is expanded in a historical and stylistic understanding of the music being studied. This knowledge is applied to provide insights into the accurate performance of each musical selection, not only with regard to specific technical requirements of a particular piece, but to the quality of sound as well. Knowledge is also expanded continually regarding symbols, terminology, and other indications on the printed score. Experience in both solo and large and small ensemble playing is an ongoing feature of this instructional area. Students will be in the MHS Marching Band. Marching Band obligations are required if taking Band II, which involves after school rehearsal.

Band III -Honors (Concert) 52575X**Fall Semester**

GPA Weight: 5.0
 Credit: 1
 Grade Level: 11-12
 Prerequisite: Band I & II

Skills developed in this area include those in rhythm, ear training, performance, conducting, form and analysis, and music reading. Knowledge is expanded in a historical and stylistic understanding of the music being studied. This knowledge is applied to provide insights into the accurate performance of each musical selection, not only with regard to specific technical requirements of a particular piece, but to the quality of sound as well. Knowledge is also expanded continually regarding symbols, terminology, and other indications on the printed score. Experience in both solo and large and small ensemble playing is an ongoing feature of this instructional area. Students will be in the MHS Marching Band. Marching Band obligations are required if taking Band III, which involves after school rehearsal.

Band IV- Honors (Concert) 52585X**Spring Semester**

GPA Weight: 5.0
 Credit: 1
 Grade Level: 11-12
 Prerequisite: Band I & II

Skills developed in this area include those in rhythm, ear training, performance, conducting, form and analysis, and music reading. Knowledge is expanded in a historical and stylistic understanding of the music being studied. This knowledge is applied to provide insights into the accurate performance of each musical selection, not only with regard to specific technical requirements of a particular piece, but to the quality of sound as well. Knowledge is also expanded continually regarding symbols, terminology, and other indications on the printed score. Experience in both solo and large and small ensemble playing is an ongoing feature of this instructional area. Students will be in the MHS Marching Band. Marching Band obligations are required if taking Band IV, which involves after school rehearsal.

Strings I - Appalachian 52842X**Fall Semester**

GPA Weight: 4.0
 Credit: 1
 Grade Level: 9-12
 Prerequisite: None

This class is not for beginners. The students must have some working knowledge of the instrument, chord formation, and their personal instrument. Musicians that play these instruments may participate in the class: Guitar, fiddle (violin), bass, banjo, mandolin, dulcimer, and piano. Appalachian strings is a class centered around the rich history of Appalachian or bluegrass music. Students will be performing vast material from the 1900's to the present and will be studying the musicians of these periods in order to better understand why this music is considered an original hallmark of the Americans. Students should be able to reserve time outside of class for practice and performances.

Strings II - Advanced**Spring Semester**

GPA Weight:	5.0
Credit:	1
Grade Level	9-12
Prerequisite:	Must have had Strings I and passed with a B or better in the course.

Strings II deals more with the theory of string instruments, sound, music theory, and advanced performance venues. Students should be able to reserve time outside of class for practice and performances.

Music Theory – Honors**52155X****Spring Semester**

GPA Weight:	5.0
Credit:	1
Grade Level:	11-12
Prerequisite:	<ul style="list-style-type: none"> • Must have completed 4 semesters of one of the following or a combination of: Appalachian strings, concert band, marching band, and chorus. • Recommendation from the Band Director.

The Musical Theory class is a culmination of all the music classes a serious music student has taken at Madison High School. Rather than a solely performance perspective, music theory looks at music from a functional perspective. Writing and composition, improvisation, and how do I write my own music. This class will allow a student to not only perform but also will give them the opportunity and tools needed to write, arrange, and perform music well. Students should be able to reserve time outside of class for practice and performances.

JUNIOR RESERVE OFFICERS TRAINING CORPS

Junior Reserve Officers' Training Corps (JROTC) I	950121
Junior Reserve Officers' Training Corps (JROTC) II	950222
Junior Reserve Officers' Training Corps (JROTC) III	950323
Junior Reserve Officers' Training Corps (JROTC) IV	950424
Junior Reserve Officers' Training Corps (JROTC) V	950425
Junior Reserve Officers' Training Corps (JROTC) VI	950426
Junior Reserve Officers' Training Corps (JROTC) VII	950427
Junior Reserve Officers' Training Corps (JROTC) VIII	950428
Junior Reserve Officers' Training Corps (JROTC) - Honors	950454

GPA Weight:	4.0
Prerequisite:	None
Credit:	1
Grade Level:	9-12

The U. S. Army Junior Reserve Officers' Training Corps, or JROTC, is designed to teach high school students the value of citizenship, leadership, service to their community, personal responsibility, and a sense of accomplishment, while instilling in them self-esteem, team work, self-discipline, organizational and study skills. Its focus is reflected in its mission statement, "To motivate young people to be better citizens." It prepares high school students for the real world while making them aware of their history, rights, responsibilities, and privileges of American citizens. The program is a stimulus for promoting graduation from high school, and it provides instruction and rewarding opportunities that will benefit the student, school, community, state and nation.

Junior Reserve Officer's Training Corps (JROTC) Summer Camp 95012X*

Prerequisite:	Must meet JROTC physical and leadership requirements
Credit:	1/2 Credit
Grade Level:	9-11

Through a 120 contact hour summer leadership program conducted at a military facility, JROTC cadets will extend and refine leadership skills through an academic course taught by certified JROTC instructors. Cadets will develop leadership skills and attention to detail through hands-on activities.

**Attendance at 2 summer camps will earn 1 high school credit towards graduation.*

PHYSICAL EDUCATION DEPARTMENT

Healthful Living **Male** **90112M**
 Female **90112F**

GPA Weight: 4.0
Prerequisite: Must have passed 8th grade and have a physical examination
Credit: 1
Grade Level: 9

This course is designed to teach basic health knowledge and skills for proper health related decision making. Students will participate in activities that will develop and maintain individual physical fitness for building a healthy body, mind, and character.

Dressing out and participation in physical education is required every day unless the student is excused with a doctor's statement.

Athletic Sports* **Female** **90152XF**
Athletic Sports* **Male** **90152XM**

GPA Weight: 4.0
Prerequisite: Female/Male Healthful Living course with an average of 85 or above
• Physical Examination
• ***Female/Male athlete**
• ***Permission of Instructor**
Grade Level: 9 - 12

This course will concentrate on Weight Lifting and Conditioning. This course is designed for the female/male athlete who is involved in sports and needs to stay fit year-round.

Dressing out and participation in physical education is required every day unless the student is excused with a doctor's statement.

Advanced Physical Education I -Male **90152M**
Advanced Physical Education I -Female **90152F**

GPA Weight: 4.0
Prerequisite: • Physical Examination
• Healthful Living
Credit: 1
Grade Level: 10-12

This course is designed to introduce a program of physical fitness, weight training, individual sports, and team sport activities. It will also include basketball, jogging, running, Carolina football, softball and volleyball.

Dressing out and participation is required every day unless the student is excused with a doctor's statement.

EXCEPTIONAL CHILDREN'S DEPARTMENT

The Exceptional Children's Department serves those students who, after evaluations, have qualified for special services according to North Carolina State Guidelines. These students have a specially developed Individual Education Plan (IEP) that addresses the evaluated special needs. Parents are invited to be involved in this program and have frequent correspondence from the department in order to see that needs are being met. Outside agencies are involved if evaluation shows the need. When needs call for additional services, support personnel are involved. Education is provided in the least restrictive environment possible.

Adaptive PE **90110X**
Prerequisite: Teacher Recommendation
Credit: 1
Grade Level: 9-12

This physical education course is set within a smaller group setting with necessary physical modifications of instruction.

Occupational Preparation I**92400X**

Prerequisite: Must meet state guidelines for Occupational Diploma track

Credit: 1

Grade Level: 9

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

Occupational Preparation II**1st Semester 92410A****2nd Semester 92410B**

Prerequisite: Must pass Occupational Preparation II

Credit: 2

Grade Level: 10

This course is designed to allow students to develop skills generic to all career majors; resource management, communication, interpersonal relationships, technology, stamina, endurance, safety, mobility skills, motor skills, teamwork, sensory skills, problem solving, cultural diversity, information acquisition/management, and self-management. This course content is focused on providing students with a repertoire of basic skills that will serve as a foundation for future career application. Students will expand their school-based learning activities to include on-campus jobs and work-based learning activities. Job seeking skills also will be refined.

Occupational Preparation III**1st Semester 92420A****2nd Semester 92420B**

Prerequisite: Must pass Occupational Preparation II A & B

Credit: 2

Grade Level: 11

Students in Occupational III continue to development and begin the application of skills learned in Occupational Preparation I and II. Work based learning activities are provided including community-based training, job shadowing, job sampling, internships, situational assessment, cooperative education, and apprenticeships. These work-based activities allow students to apply employability skills to competitive employment settings and demonstrate the effectiveness of their work personality. Multiple opportunities for leadership development and self-determination are provided.

Occupational Preparation IV**92430X**

Prerequisite: Must pass Occupational Preparation III A & B

Credit: 1

Grade: 12

Students are given the opportunity to synthesize all the skills acquired in previous Occupational Preparation courses (I, II, and III) and apply them to their personal career choice. This course allows students to solve work-related problems experienced in competitive employment, practice self-advocacy skills and master the theoretical and practical aspects of their career choice. Students finish completing the 360 hours of integrated competitive employment in a community setting required for successful completion of the Occupational Course of Study. Students also will develop a job placement portfolio that provides an educational and vocational record of their high school experience.

CAREER AND TECHNICAL EDUCATION COURSES (CTE)

AGRICULTURE AND NATURAL RESOURCES EDUCATION

Agricultural Mechanics I	68312X
GPA Weight:	4.0
Prerequisite:	None
Credit:	1
Grade Level:	10-12

This course develops knowledge and technical skills in the broad field of agricultural machinery, equipment, and structures. The primary purpose of this course is to prepare students to handle the day-to-day problems, accidents, and repair needs they will encounter in their chosen agricultural career. Topics include agricultural mechanics safety, agricultural engineering career opportunities, hand/power tool use and selection, electrical wiring, basic metal working, basic agricultural construction skills related to plumbing, concrete, carpentry, basic welding, and leadership development. Skills in physics, geometry, and algebra are reinforced in this course. Work-based learning strategies appropriate for this course are agriscience projects, field trips, shadowing, and supervised agricultural experience. Supervised agricultural experience program and FFA leadership activities are integral components of the course and provide many opportunities for practical application of instructional competencies.

Students taking this course may receive college credit at any North Carolina Community College. To receive college credit, students must make an 80 or above on the CTE Post Assessment, as well as, have obtained an overall final average of B or better in the course.

Agricultural Mechanics II	68322X
GPA Weight:	4.0
Prerequisite:	Agricultural Mechanics I
Credit:	1
Grade Level:	11-12

This course provides hands-on instruction and emphasizes small engine systems including the compression, fuel, electrical, cooling and lubrication systems. Troubleshooting methods are emphasized. In addition, students learn how to select engines for specific applications. Safety skills will be emphasized as well as leadership development and work-based learning. Opportunities exist for students to conduct internships or apprenticeships.

Students taking this course may receive college credit at any North Carolina Community College. To receive college credit, students must make an 80 or above on the CTE Post Assessment, as well as, have obtained an overall final average of B or better in the course.

Agriculture Education Advanced Studies	68992X
GPA Weight:	4.0
Prerequisite:	Three Technical Credits in a Career Major
Credit:	1
Grade Level:	12

This is a three-phased exit course for seniors or qualified students that are career-focused in agriculture education. The three components of the program include a research paper, a product, and a presentation. Students demonstrate their ability to use content and apply knowledge to real-world situations in a career major. In addition, they will also demonstrate their ability to write, speak, apply knowledge, problem-solve, and use life skills such as time management, planning, follow through, and organization. Students work under the guidance of a teacher facilitator in collaboration with community members, business representatives and other school-based personnel.

Agriscience Applications	68102X
GPA Weight:	4.0
Prerequisite:	None
Credit:	1
Grade Level:	9-10

This course provides instruction that focuses on integrating biological/physical sciences with technology as related to the environment, natural resources, food production, and science and agribusiness. Topics of instruction include agricultural awareness and literacy, leadership and FFA, employability skills, introduction to all aspects of the total agricultural industry. Skills in biology, language, writing, computers, math, and physics are reinforced in this course. Work-based learning strategies appropriate for this course are: field trips, shadowing, agriscience projects, and supervised agricultural experience. Supervised agricultural experience programs and FFA leadership activities are integral components of the course and provide many opportunities for practical application of instructional competencies.

Animal Science I	68212X
GPA Weight:	4.0
Prerequisite:	None
Credit:	1
Grade Level:	10-12

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

Honors section available for this course. Please see instructor for details

Students taking this course may receive college credit at any North Carolina Community College. To receive college credit, students must make an 80 or above on the CTE Post Assessment, as well as, have obtained an overall final average of B or better in the course.

Animal Science II	68222X
GPA Weight:	4.0
Prerequisite:	Animal Science I
Credit:	1
Grade Level:	10-12

This course covers instruction that expands upon the scientific knowledge and skills developed in Animal Science I to include more advanced scientific, computation, and communication skills are developed in animal science. Topics include animal waste management, animal science economics, decision making, global concerns in the industry, genetics and breeding. Content knowledge in biology, chemistry, and algebra are reinforced in this class.

Students taking this course may receive college credit at any North Carolina Community College. To receive college credit, students must make an 80 or above on the CTE Post Assessment, as well as, have obtained an overall final average of B or better in the course.

Environmental and Natural Resources Studies I	68512X
GPA Weight:	4.0
Prerequisite:	None
Credit:	1
Grade Level:	10-12

This course provides an introduction to environmental studies, which include topics of instruction in renewable and non-renewable resources, history of the environment, personal development, water and air quality, waste management, land use regulations, soils, meteorology, fisheries, forestry, and wildlife habitat. Skills in biology and algebra are reinforced in this class.

Students taking this course may receive college credit at any North Carolina Community College. To receive college credit, students must make an 80 or above on the CTE Post Assessment, as well as, have obtained an overall final average of B or better in the course.

Environmental and Natural Resources Studies II	68522X
GPA Weight:	4.0
Prerequisite:	Environmental and Natural Resource Studies I
Credit:	1
Grade level:	10-12

This course covers instruction that expands the knowledge and skills developed in Environmental Studies and Natural Resource Management I with heavy emphasis on instruction in best management practices and skills in methods of environmental monitoring and conservation, air and water regulation, sampling methodologies, prescribing conservation, wildlife, and forestry management. Skills in biology, chemistry and algebra are reinforced in this class.

Students taking this course may receive college credit at any North Carolina Community College. To receive college credit, students must make an 80 or above on the CTE Post Assessment, as well as, have obtained an overall final average of B or better in the course.

Equine Science I	68252X
GPA Weight:	4.0
Prerequisite:	Animal Science I & II
Credit:	1
Grade level:	10-12

Equine Science is a technical course designed to introduce students to the fundamentals related to the horse industry. Selection, health management, equitation, marketing and horse judging are among the topics discussed in this course.

Horticulture I	68412X
GPA Weight:	4.0
Prerequisite:	None
Credit:	1
Grade Level:	10-12

This course provides instruction on the broad field of horticulture with emphasis on the scientific and technical knowledge for a career in horticulture. Topics in this course include plant growth and development, plant nutrition, media selection, basic plant identification, pest management, chemical disposal, customer relations, career opportunities, and leadership development. Skills in biology, chemistry, and algebra are reinforced in this course. Work-based learning strategies appropriate for this course are agriscience projects, internships, and supervised agricultural experience. Supervised agricultural experience programs and FFA leadership activities are integral components of the course and provide many opportunities for practical application of instructional competencies.

Students taking this course may receive college credit at any North Carolina Community College. To receive college credit, students must make an 80 or above on the CTE Post Assessment, as well as, have obtained an overall final average of B or better in the course.

Horticulture II	68425X
GPA Weight:	5.0
Prerequisite:	Horticulture I
Credit:	1
Grade Level:	11-12

This course covers instruction that expands the scientific knowledge and skills developed in Horticulture I to include more advanced scientific, computation, and communication skills needed in the horticulture industry. Topics include greenhouse plant production and management, bedding plant production, watering systems, light effects, basic landscape design, installation and maintenance, lawn and turf grass management, career planning, and leadership/personal development. Skills in biology, chemistry, and algebra are reinforced in this class. Work-based learning strategies appropriate for this course are agriscience projects, cooperative education, apprenticeship, and supervised agricultural experience. Supervised agricultural experience programs and FFA leadership activities are integral components of the course and provide many opportunities for practical application of instructional competencies.

Honors section is available for this course. Please see instructor for details.

Students taking this course may receive community college credit at Blue Ridge Community College or Asheville-Buncombe Technical Community College (AB-Tech). To receive college credit students must score an 80 or above on the CTE Post Assessment, as well as, have obtained an overall final average of B or better in the course.

Horticulture II - Landscape Construction and Maintenance	68822X
GPA Weight:	4.0
Prerequisite:	Horticulture I
Credit:	1
Grade Level:	11

This course provides hands-on instruction and emphasizes safety skills needed by landscape technicians in the field. This course is based on the North Carolina Landscape Contractor's Association skills 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 topics 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.

Students taking this course may receive college credit at any North Carolina Community College. To receive college credit, students must make an 80 or above on the CTE Post Assessment, as well as, have obtained an overall final average of B or better in the course.

BUSINESS AND INFORMATION TECHNOLOGY EDUCATION

Business Law	6215X
GPA Weight:	4.0
Prerequisite:	None
Credit:	1
Grade Level:	11-12

This course is designed to acquaint students with the basic legal principles common to business and personal activities. Topics include consumer concepts to assist students when evaluating contracts, purchasing with credit, purchasing appropriate insurance, and renting and owning real estate.

Business Management and Applications	6225X
GPA Weight:	4.0
Prerequisite:	Two technical credits in Business and Information Technology Education
Credit:	1
Grade Level:	11-12

This course covers the organizational functions of businesses including quality concepts, project management, and problem solving. Emphasis is placed on analyzing the social, technological and organizational systems in businesses, such as human relations, communications, data management and meeting and conference coordination.

Computerized Accounting I	6311X
GPA Weight:	1.0
Prerequisite:	None
Credit:	1
Grade Level:	10-12

This course is designed to help students understand the basic principles of the accounting cycle. Emphasis is placed on the analysis and recording of business transactions; preparation and interpretation of financial statements; accounting systems; banking and payroll activities; basic types of business ownership; and an accounting career orientation.

E-commerce I	64155X
GPA Weight:	5.0
Prerequisite:	Multimedia and Web page Design
Credit:	1
Grade Level:	11-12

This course is designed to help student's master skills in the design and construction of complex web sites for conducting business electronically. Emphasis is on skill development in advanced web page construction and entrepreneurial applications of conducting business electronically as well as economic, social, legal, and ethical issues related to electronic business. Students will plan, design, create, publish, maintain, and promote an electronic business web site. Communication skills and critical thinking are reinforced through software applications. Work-based learning strategies appropriate for this course are school-based enterprises, internships, cooperative education, and apprenticeship. Simulations, projects, teamwork, and FBLA leadership activities, meetings, conferences, and competitions provide opportunities for application of instructional competencies. DECA leadership activities, meetings, conferences, and competitions provide many opportunities for application of instructional competencies.

Honors section is available for this course. Please see instructor for details.

Students taking this course may receive community college credit at Blue Ridge Community College or Asheville-Buncombe Technical Community College (AB-Tech). To receive college credit students must score an 80 or above on the CTE Post Assessment, as well as, have obtained an overall final average of B or better in the course.

Microsoft ITA: Word, PowerPoint and Publisher	6417
GPA Weight:	4.0
Prerequisite:	None
Credit:	1
Grade Level:	9-10
Credential Opportunity:	Certified Microsoft Office Specialist

Students in IT Academies benefit from world-class Microsoft curriculum and cutting-edge software tools to tackle real-world challenges in the classroom environment. The first part of the class is a supplemental section where students will learn to create, edit organize and share a virtual notebook. In the second part, students will learn to use the newest version of Microsoft Word interface, commands, and features to create, enhance, customize and share documents as well as create complex documents and publish them. In the third part, students will learn to use the newest version of Microsoft PowerPoint interface, commands, and features to create, enhance, customize and deliver presentations. In the last part, students will learn to use the basic features of the newest version of Microsoft Publisher to create, customize, and publish a publication.

Microsoft ITA: Excel and Access	6419
GPA Weight:	4.0
Prerequisite:	None
Credit:	1
Grade Level:	9-10
Credential Opportunity:	Certified Microsoft Office Specialist

Students in Microsoft IT Academies benefit from world-class Microsoft curriculum and cutting-edge software tools to tackle real-world challenges in the classroom environment. The first part of the class is designed to help you use the newest version of Microsoft Excel interface, commands, and features to present, analyze, and manipulate various types of data. Students will learn to manage workbooks as well as how to manage, manipulate, and format data. In the second part of the class students will learn how to create and work with a database and its objects by using the new and improved features in 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. Work-based learning strategies appropriate to this course are school-based enterprises, internships, cooperative education, and apprenticeships. Simulations, projects, teamwork and CTSO activities, meetings, conferences, and competitions provide opportunities for application of instructional competencies.

Multimedia and Web page Design	6414
GPA Weight:	4.0
Prerequisite:	None
Credit:	1
Grade Level:	10-12

This course focuses on desktop publishing, graphic image design, computer animation, virtual reality, multimedia production, and web page design. Communication skills and critical thinking are reinforced through software applications.

Personal Finance	7086X
GPA Weight:	4.0
Prerequisite:	None
Credit:	1
Grade Level:	9-12

The focus of this course is financial knowledge and skills for individual consumers. Topics include responsible earning, spending, saving & borrowing; financial decision-making; life stages; income, needs & expenses; personal and family financial security; personal, education and job/career choice strategies; types of compensation; payment options; basic shopping, transportation, & housing needs; credit cards; identity theft; health and life insurance, personal financial planning, and managing personal income & expenditures.

Students taking this course may receive college credit at any North Carolina Community College. To receive college credit, students must make an 80 or above on the CTE Post Assessment, as well as, have obtained an overall final average of B or better in the course.

Principles of Business and Finance	6200X
GPA Weight:	4.0
Prerequisite:	None
Credit:	1
Grade Level:	9-10

This course introduces the major principles and concepts that are the foundation for future study of business and management. Topics of study include basic business principles, management concepts, systems thinking, quality management, and the current environment for business in a multinational marketplace. Communications skills and basic mathematical concepts are reinforced in this course.

Students taking this course may receive college credit at any North Carolina Community College. To receive college credit, students must make an 80 or above on the CTE Post Assessment, as well as, have obtained an overall final average of B or better in the course.

CAREER DEVELOPMENT

Career Management	61452X
GPA Weight:	4.0
Prerequisite:	None
Credit:	1
Grade Level:	9-12

This course is designed to prepare students to locate, secure, keep, and change careers. Competencies for this course are based on the National Career Development Guidelines. Strategies for this course include teamwork, technology, problem solving, decision-making, goal-setting, and self-management.

FAMILY AND CONSUMER SCIENCES EDUCATION

Apparel Development I

1st Semester	7035
GPA Weight:	4.0
Prerequisite:	None
Credit:	1
Grade Level:	10-12

Freshman must have teacher approval in order to take this class.

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. Work-based learning strategies appropriate for this course include field trips, job shadowing, and services learning. FCCLA leadership activities provide the opportunity to apply instructional competencies and workplace readiness skills to authentic experiences.

Apparel Development II

2nd Semester	7036
GPA Weight:	4.0
Prerequisite:	None
Credit:	1
Grade Level:	10-12

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 and FCCLA activities allow 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. Work-based learning strategies appropriate for the course include school-based enterprises, field trips, job shadowing, and service learning.

Early Childhood Education I

1st Semester	71112X
2nd Semester	71112B
GPA Weight:	4.0
Prerequisite:	None
Credit:	2
Grade Level:	11-12

This is a year long course that prepares students to work with children birth to age 8. Emphasis is placed on enhancing the development of young children while providing early education and care. Topics include stages of development, health, safety, and developmentally appropriate activities. Students must be 16 years of age to work in the day care. At least one-half of the instructional time is spent in internships in the school's own day care center. The Parenting and Child Development course is recommended before Early Childhood Education courses. ***This is a yearlong course. Seniors are not allowed to take Early Childhood Education I and Early Childhood Education II in the same year. Students wanting to get to level II should begin Junior year with level I.***

Students taking this course may receive community college credit at Blue Ridge Community College or Asheville-Buncombe Technical Community College (AB-Tech). To receive college credit students must score an 80 or above on the CTE Post Assessment, as well as, have obtained an overall final average of B or better in the course.

Early Childhood Education II

1st Semester	71122X
2nd Semester	71122S
GPA Weight:	4.0
Prerequisite:	Early Childhood Education I
Credit:	2
Grade Level:	12

This is a year long course that prepares students to work with children birth to twelve years of age in child care, preschool, or after school programs. Students are encouraged to continue their education at a community college or university. Students receive instruction in child care pertaining to teaching methods, career development, program planning and management, health and safety issues, entrepreneurship skills, and technology. In this course students receive advanced preparation for a career in childcare. At least one-half of the instructional time is spent in internships in the school's own day care center. Students who successfully complete this course and are 18 years of age will be eligible to apply for the NC Early Childhood Credential (NCECC) through the Division of Child Development. ***This is a year long course.***

Honors section is available for this course. Please see instructor for details.

Students taking this course may receive community college credit at Blue Ridge Community College or Asheville-Buncombe Technical Community College (AB-Tech). To receive college credit students must score an 80 or above on the CTE Post Assessment, as well as, have obtained an overall final average of B or better in the course.

Teen Living	70152X
GPA Weight:	4.0
Prerequisite:	None
Credit:	1
Grade Level:	9-10

This course allows students to examine teen roles and responsibilities associated with family, peers, and work. The students will investigate life management skills in the areas of personal, family, and community living; appropriate child development practices; wellness, nutrition, and foods; consumer management; fashion and clothing; living environments; and job readiness. This course is designed to provide an essential foundation for future enrollment in Family and Consumer Sciences Education.

HEALTH OCCUPATIONS EDUCATION

Allied Health Sciences I	72112X
GPA Weight:	4.0
Prerequisite:	None
Credit:	1
Grade Level:	10

This course gives students the basics of anatomy and physiology of the human body. Interfaced in this course are also units on nutrition and communication. Students will gain experience in the body systems as well as gain knowledge on careers associated with each body system. This course is required to progress to Allied Health Sciences II (or Health Sciences II depending on the pathway).

Students taking this course may receive college credit at any North Carolina Community College. To receive college credit, students must make an 80 or above on the CTE Post Assessment, as well as, have obtained an overall final average of B or better in the course.

Allied Health Sciences II	72122X
GPA Weight:	4.0
Prerequisite:	Allied Health Sciences I Successful completion of the application process
Credit:	2
Grade Level:	12

This course is designed to prepare potential health care workers in becoming effective and efficient multi-skilled health team members. Topics include employability skills, emergency care skills, safety skills, clerical skills, and health care skills. The work-based learning strategy is a minimum 65-hour clinical internship where the student delivers health care in local hospitals, medical/dental/veterinarian offices, nursing/convalescent/retirement facilities, etc. A uniform, white shoes, and a watch with a second hand are required. Students who successfully complete the course and clinical requirements are prepared to take the National Nurse Aide Assessment Program (NNAAP) competency exam for Certified Nurse Aide I at a cost of \$101.00. This is a two block course. Students are responsible for transportation to and from clinical sites.

- An application is required to be considered for this course.
- A contract to participate in this class must be signed
- **Due to a clinical/lab environment, proof of health insurance is required for this course.**

Honors section is available for this course. Please see instructor for details.

Students taking this course may receive college credit at any North Carolina Community College. To receive college credit, students must make an 80 or above on the CTE Post Assessment, as well as, have obtained an overall final average of B or better in the course.

Biomedical Technology	72002X
GPA Weight:	4.0
Prerequisite:	None
Credit:	1
Grade Level:	10

This course covers a wide range of topics to include medical terminology, forensics, genetics, medical math, medical ethics, advances in medical technology and health careers. Students complete a variety of activities to reinforce classroom content.

Health Science II**7242**

GPA Weight: 4.0
 Prerequisite: Health Science I
 Credit: 1
 Grade Level: 11th or 12th (In the Transition Year)

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 related to the Health Science Career Clusters and the health care core standards. American Heart Association guidelines will be used for CPR and first aid training. Skills in science, mathematics, communications and health are integrated in this course. In order for students to take this course in the 2011-2012 school year, they must have completed Allied Health Sciences I.

Due to a lab environment, proof of health insurance is strongly recommended for this course.

Health Sciences Advanced Studies**72992X**

GPA Weight: 4.0
 Prerequisite: Three credits in Health Occupations Education
 Credit: 1
 Grade Level: 12

This culminating course is for seniors who are career-focused in a health or medical career. The three parts of the course include a research paper, a product, and a presentation. Students demonstrate their abilities to use content and apply knowledge to real-world situations in a selected career. In addition they will also demonstrate their abilities to write, speak, apply knowledge, problem solve, and 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. HOSA membership provides avenues for applying leadership skills, reinforcing writing and speaking skills, and participating in volunteer activities.

Health Team Relations**72102X**

GPA Weight: 4.0
 Prerequisite: None
 Credit: 1
 Grade Level: 9-11

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

Nursing Fundamentals**7243**

GPA Weight: 4.0
 Prerequisite: Health Science II
 Credit: 2
 Grade Level: 12

This course is designed for students who are interested in medical careers where personal care and basic nursing care skills are used. This course is an enhance adaptation of the North Carolina Division of Health Service Regulation Nurse Aide I curriculum. Students who successfully complete the course will be prepared to take the National Nurse Aide Assessment Program (NNAAP) competency exam for Certified Nurse Aide I at a cost of \$101.00. Clinical internship in a long-term care facility is required. A uniform, white shoes, and a watch with a second hand are required. In order for students to take this course in the 2011-2012 school year they must have completed Allied Health Sciences I **and** Health Science II.

- An application is required to be considered for this course.
- A contract to participate in this class must be signed
- *Due to a clinical/lab environment, proof of health insurance is required for this course.*

MARKETING EDUCATION

Fashion Merchandising **66312X**

GPA Weight: 4.0
Prerequisite: None
Credit: 1
Grade Level: 9-12

This course is designed to help students interested in the fashion industry and the merchandising of fashion. Topics include an overview of the fashion industry, evolution and movement of fashion; career development, merchandising, risk management, promotion and fashion show production. Skills in research, mathematics, textile chemistry and technical writing are reinforced in this course. Work-based learning strategies appropriate for this course include cooperative education of paid/unpaid internships. Marketing simulations, projects, teamwork, DECA leadership activities, meetings, conferences and competitions provide many opportunities for application of instructional competencies.

Marketing I **66212X**

GPA Weight: 4.0
Prerequisite: None
Credit: 1
Grade Level: 9-12

This course is designed to help students develop basic knowledge, skills, attitudes that will prepare them to enter the field of marketing. The course, which focuses on the National Marketing Education Standards and the National Curriculum Framework, emphasizes the -foundations of business, management, and entrepreneurship; economics; professional development; and communication and interpersonal skills. Included in these foundations are concepts such as distribution, financing, selling, pricing, promotion, marketing-information management, and product/service management. Skills in communications, mathematics and psychology are reinforced in this course. Work-based learning strategies appropriate for this course include job shadowing, paid/unpaid internship, school-based enterprises, field trips, and/or cooperative education. Marketing simulations, projects, teamwork, DECA leadership activities, meetings, conferences, and competitions provide many opportunities for application of instructional competencies.

Students taking this course may receive community college credit at Blue Ridge Community College or Asheville-Buncombe Technical Community College (AB-Tech). To receive college credit students must score an 80 or above on the CTE Post Assessment, as well as, have obtained an overall final average of B or better in the course.

Marketing Advanced Studies **66996X**

GPA Weight: 4.0
Prerequisite: Three credits in Business, Marketing, or Information Technology Education
Credit: 1
Grade Level: 12

This is a culminating course for seniors who are career-focused in marketing technologies; sales and technical services; travel, tourism, and recreational marketing; business management and small business/entrepreneurship; fashion merchandising; business administration; or sports and entertainment marketing. The three components of the course include writing a research paper, producing a product, and delivering a presentation. Students demonstrate the ability to use content and apply knowledge to real-world situations in a career major. In addition, they will also demonstrate the ability to write, speak, apply knowledge, problem solve, and use life skills such as time management, planning, follow through, and organization. Students work under the guidance of a teacher facilitator in collaboration with community members, business representatives, and other school-based personnel. Simulation, projects, teamwork, DECA leadership activities, meetings, conferences, and competitions provide opportunities for application of instructional competencies.

Marketing Co-op **66972X**

GPA Weight: 4.0
Prerequisite: Marketing I or current enrollment in appropriate Marketing class
Credit: 1
Grade Level: 11-12

For this course, the recommended sequence of courses would be Marketing I or Fashion Merchandising in freshman or sophomore year, Travel-Tourism & Recreational marketing or Small Business/Entrepreneurship junior year and Marketing management senior year. Students must be enrolled in one of these courses to participate in CO-OP. Students who take this course must have or be able to obtain a job in the field of marketing and provide their own transportation. Juniors who are enrolled in appropriate courses may have work release one period per day each semester. Seniors may have two periods of work release their second semester if they have teacher approval. In all cases, students will receive only one (1) credit per semester. Students are expected to keep the same job for two semesters and must work a minimum of 15 weeks and 270 hours per semester to receive credit for the course. Students must also pass the classroom course work to receive credit. Students cannot take only marketing CO-OP.

Principles of Business And Finance 62002X

GPA Weight: 4.0
 Prerequisite: None
 Credit: 1
 Grade Level: 9-12

This course introduces the major principles and concepts that are the foundation for future study of business and management. Topics of study include basic business principles, management concepts, systems thinking, quality management, and the current environment for business in a multinational marketplace. Communications skills and basic mathematical concepts are reinforced in this course.

Students taking this course may receive college credit at any North Carolina Community College. To receive college credit, students must make an 80 or above on the CTE Post Assessment, as well as, have obtained an overall final average of B or better in the course.

Small Business/Entrepreneurship 66152X

GPA Weight: 4.0
 Prerequisite: Completion of two technical credits in the same career pathway
 Credit: 1
 Grade Level: 11-12

This course introduces students to the rewards and risks of owning or operating a business enterprise. Emphasis is placed on the mastery of skills needed to plan, organize, manage, and finance a small business. Skills in communication, technical writing, math, research, and problem solving are reinforced as each student prepares his/her own business plan.

Honors section is available for this course. Please see instructor for details.

Students taking this course may receive community college credit at Blue Ridge Community College or Asheville-Buncombe Technical Community College (AB-Tech). To receive college credit students must score an 80 or above on the CTE Post Assessment, as well as, have obtained an overall final average of B or better in the course.

Sports and Entertainment Marketing I 66702X

GPA Weight: 4.0
 Prerequisite: None
 Credit: 1
 Grade Level: 10-12

Freshman may take this course with prior approval from the teacher.

This course is designed for students interested in sports, entertainment, and event marketing. Emphasis is placed on the following principles as they apply to the industry: branding, licensing, and naming rights; business foundations; concessions and on-site merchandising; economic foundations; promotion; safety and security; and human relations. Skills in communications, human relations, psychology, and mathematics are reinforced in this course. Work-based learning strategies appropriate for this course include cooperative education, paid-unpaid internships, or school-based enterprises. Marketing simulations, projects, teamwork, DECA leadership activities, meetings, conferences, and competitions provide many opportunities for application of instructional competencies.

Students taking this course may receive community college credit at Blue Ridge Community College or Asheville-Buncombe Technical Community College (AB-Tech). To receive college credit students must score an 80 or above on the CTE Post Assessment, as well as, have obtained an overall final average of B or better in the course.

Sports and Entertainment Marketing II 66712X

GPA Weight: 4.0
 Prerequisite: Sports and Entertainment Marketing I
 Credit: 1
 Grade Level: 11-12

This course is designed for students interested in an advanced study of sports, entertainment, and event marketing. Emphasis is placed on the following principles as they apply to the industry: business management, career development options, client relations, ethics, events management, facilities management, legal issues and contracts, promotion, and sponsorships. Skills in communications, human relations, mathematics, psychology, and technical writing are reinforced in this course. Work-based learning strategies appropriate for this course include cooperative education, paid/unpaid internships, or school-based enterprises. Marketing simulations, projects, teamwork, DECA leadership activities, meetings, conferences, and competitions provide many opportunities for application of instructional competencies.

Students taking this course may receive community college credit at Blue Ridge Community College or Asheville-Buncombe Technical Community College (AB-Tech). To receive college credit students must score an 80 or above on the CTE Post Assessment, as well as, have obtained an overall final average of B or better in the course.

Strategic Marketing	66265X
GPA weight:	5.0
Prerequisite:	Completion of a marketing course
Credit:	1
Grade Level:	11-12

This fast-paced course challenges students by combining into one course the content taught in the Marketing and Marketing Management courses. *The curriculum, activities, and resources utilized in this course are written at the freshman college level.* Topics include economics, marketing research and decision making, domestic and international markets and influences, human resource development, ethics, management, and financial analysis. Skills in mathematics, research, and critical thinking are reinforced in this course. This honors course extends the Standard Course of Study to a higher, more challenging level. Work-based learning strategies appropriate for this course include cooperative education and paid/unpaid internships. Marketing simulations, projects, teamwork, DECA leadership activities, meetings, conferences, and competitions provide many opportunities for application of instructional competencies.

Honors section is available for this course. Please see instructor for details.

Students taking this course may receive community college credit at Blue Ridge Community College or Asheville-Buncombe Technical Community College (AB-Tech). To receive college credit students must score an 80 or above on the CTE Post Assessment, as well as, have obtained an overall final average of B or better in the course.

Travel, Tourism, and Recreational Marketing	66452X
GPA weight:	4.0
Prerequisite:	Marketing I
Credit:	1
Grade Level:	10-12

This course is designed to provide a foundation for students interested in a career in travel, tourism, and recreation marketing. Emphasis is placed on the hospitality/tourism industry, customer relations, travel destinations, tourism promotion, economics, and career development. Skills in mathematics, psychology, geography, and communications are reinforced in this course. Alternative avenues of learning, such as internships or co-op experiences can be utilized in this course.

TRADE AND INDUSTRIAL EDUCATION

Construction Technology I	77212X
GPA Weight:	4.0
Prerequisite:	Successful completion of Algebra I is a recommended prerequisite for this course.
Credit:	1
Grade Level:	9-12

This course provides a basic introduction to construction work and the technical aspects of carpentry. Topics include safety, measurement, and the identification, selection and use of tools, equipment, lumber, materials, and fasteners. Basic skills, leadership, career development, thinking and reasoning skills, mathematics and principles of technology are reinforced. Job shadowing is an appropriate work-based learning strategy for this course. Hands-on work experience and SkillsUSA leadership activities provide many opportunities to enhance classroom instruction and career development.

Students taking this course may receive community college credit at Blue Ridge Community College or Asheville-Buncombe Technical Community College (AB-Tech). To receive college credit students must score an 80 or above on the CTE Post Assessment, as well as, have obtained an overall final average of B or better in the course.

Construction Technology II	
1st semester	77222A
2nd semester	77222B
GPA Weight:	4.0
Prerequisite:	Construction Technology I with Geometry as a recommended prerequisite.
Credit:	2
Grade Level:	11-12

This course covers in depth advanced technical aspects of carpentry with emphasis on development of skills introduced in level 1. Topics include plans, framing, footings, foundations, wall sheathing, insulation, vapor barriers, gypsum board, and underlayment. Skills in measurement, leadership, safety, mathematics, and problem solving are reinforced in this course. Work-based learning strategies appropriate for this course are cooperative education and apprenticeship. Hands-on work experiences and SkillsUSA leadership activities provide many opportunities to enhance classroom instruction and career development. Geometry is a recommended prerequisite. *This is a two block course.*

Students taking this course may receive community college credit at Blue Ridge Community College or Asheville-Buncombe Technical Community College (AB-Tech). To receive college credit students must score an 80 or above on the CTE Post Assessment, as well as, have obtained an overall final average of B or better in the course.

Construction Technology III 7723
 GPA Weight: 4
 Prerequisite: Construction Technology II with Geometry as recommended prerequisite.
 Credit: 2
 Grade Level: 11-12

This course covers issues related to planing, management, finance, sales, labor, technology, community, health, environment, and safety. Topics include estimating, leveling instruments, forms, special framing, interior and exterior finishing, cabinets, built-ins, and metal studs. Skills in technical subjects production, leadership, safety, problem solving, reading and mathematics are reinforced in this course. Work based learning strategies appropriate for this course are cooperative education and apprenticeship. Hands-on work experiences and SkillsUSA leadership activities provide many opportunities to enhance classroom instruction and career development. *This is a two block course.*

Drafting I 79212X
 GPA Weight: 4.0
 Prerequisite: None
 Credit: 1
 Grade Level: 9-12

This course is an introduction to the nature of, and employment opportunities in Technical Drawing. It includes basic familiarization with the terms and tools of the drafting trade, practices in geometric construction, orthographic projections, and CAD (Computer Assisted Drafting). 50% of class time or more is devoted to actual student work using drafting equipment.

Students taking this course may receive community college credit at Blue Ridge Community College or Asheville-Buncombe Technical Community College (AB-Tech). To receive college credit students must score an 80 or above on the CTE Post Assessment, as well as, have obtained an overall final average of B or better in the course.

Drafting II - Architectural 79622X
 GPA Weight: 4.0
 Prerequisite: Drafting I
 Credit: 1
 Grade Level: 10-12

This course is focused on the principles, concepts, and use of complex graphic 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, and elevation drawings. Mathematics, Science, and visual design concepts are reinforced. Work-based learning strategies appropriate for this course are apprenticeship and cooperative education. Hands-on work experiences and SkillsUSA leadership activities provide many opportunities to enhance classroom instruction and career development.

Honors section is available for this course. Please see instructor for details.

Students taking this course may receive community college credit at Blue Ridge Community College or Asheville-Buncombe Technical Community College (AB-Tech). To receive college credit students must score an 80 or above on the CTE Post Assessment, as well as, have obtained an overall final average of B or better in the course.

Drafting III - Architectural 79632X
 GPA Weight: 4.0
 Prerequisite: Drafting II Architectural 97511 with Geometry as a recommended prerequisite.
 Credit: 1
 Grade Level: 11-12

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 wall sections. Teaming and problem-solving skills are reinforced in this course. Work-based learning strategies appropriate for this course are apprenticeships, internship, and cooperative education. Hands-on work experiences and SkillsUSA leadership activities provide many opportunities to enhance classroom instruction and career development. Geometry is a recommended prerequisite.

Honors section is available for this course. Please see instructor for details.

Students taking this course may receive community college credit at Blue Ridge Community College or Asheville-Buncombe Technical Community College (AB-Tech). To receive college credit students must score an 80 or above on the CTE Post Assessment, as well as, have obtained an overall final average of B or better in the course.

Drafting II - Engineering**79722X**

GPA Weight:

4.0

Prerequisite:

Drafting I

Credit:

1

Grade Level:

10-12

This course focuses on engineering graphics related subjects introducing the student to symbol libraries, industry standards, and sectioning techniques. Topics include coordinate systems, principles of machine processes and gearing, and the construction of 3-d wire frame models using CAD. Mathematics and science, concepts involving the working principles and design of cams and gears are reinforced in this course. Work-based learning strategies appropriate for this course are apprenticeship, internships, and cooperative education. Hands-on work experiences and SkillsUSA leadership activities provide many opportunities to enhance classroom instruction and career development.

Honors section is available for this course. Please see instructor for details.

Students taking this course may receive community college credit at Blue Ridge Community College or Asheville-Buncombe Technical Community College (AB-Tech). To receive college credit students must score an 80 or above on the CTE Post Assessment, as well as, have obtained an overall final average of B or better in the course.

Drafting III - Engineering**79732X**

GPA Weight:

4.0

Prerequisite:

Drafting-Engineering II and Geometry

Credit:

1

Grade Level:

11-12

This course introduces the student to advanced engineering concepts. Using CAD tools, topics studied include descriptive geometry, geometric tolerance, and advanced engineering design concepts such as surface and solid modeling. Science and mathematics concepts are reinforced in this course. Work-based learning strategies appropriate for this course are apprenticeship, internships, and cooperative education. Hands-on work experiences and SkillsUSA leadership activities provide many opportunities to enhance classroom instruction and career development.

Honors section is available for this course. Please see instructor for details.

Students taking this course may receive college credit at any North Carolina Community College. To receive college credit, students must make an 80 or above on the CTE Post Assessment, as well as, have obtained an overall final average of B or better in the course.

Masonry I**77112X**

GPA Weight:

4.0

Prerequisite:

Successful completion of Algebra I is a recommended prerequisite.

Credit:

1

Grade Level:

10-12

This course introduces the nature of masonry technology, materials and supplies, and employability skills. Topics include safety, layout, tools, leveling, plumbing, use of straight-edge, and jointing brick and block in wall construction. Reading, mathematics, problem solving, and principles of technology are reinforced in this course. Job shadowing is an appropriate work-based learning strategy for this course. Hands-on work experiences and SkillsUSA leadership activities provide many opportunities to enhance classroom instruction and career development.

Masonry II**77122X**

GPA Weight:

4.0

Prerequisite:

Masonry I with Geometry as a recommended prerequisite.

Credit:

2

Grade Level:

10-12

This course provides a continuation of masonry skills, estimating, blueprint reading, and building codes. Topics include constructing walls, corners, sills, and similar structures using a variety of bonds and materials. Skills in safety, leadership, reading, mathematics, problem solving, and career development are reinforced in this course. Work-based learning strategies appropriate for this course are cooperative education and apprenticeship. Hands-on work experiences and SkillsUSA leadership activities provide many opportunities to enhance classroom instruction and career development. Geometry is a recommended prerequisite. *This is a two block course.*

Masonry III**7713**

GPA Weight:

4.0

Prerequisite:

Masonry II with Geometry as a recommended prerequisite

Credit:

2

Grade Level:

10-12

This course provides advanced masonry 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. Work-based learning strategies appropriate for this course are cooperative education and apprenticeship. Hands-on work experiences and SkillsUSA leadership activities provide many opportunities to enhance classroom instruction and career development. *This is a two block course.*

Metals Manufacturing Technology I	76412X
GPA Weight:	4.0
Prerequisite:	None
Credit:	1
Grade Level:	9-12

This course introduces various manufacturing processes and job opportunities in manufacturing with emphasis on machining metal parts. Topics include safety, math, measurement, blueprint reading, layout, bench work, sawing, drilling, turning, and milling. Science, thinking skills, and principles of Science are reinforced. Job shadowing and internships are appropriate work-based learning strategies for this course. Hands-on work experiences and SkillsUSA leadership activities provide many opportunities to enhance classroom instruction and career development.

Students taking this course may receive community college credit at Blue Ridge Community College or Asheville-Buncombe Technical Community College (AB-Tech). To receive college credit students must score an 80 or above on the CTE Post Assessment, as well as, have obtained an overall final average of B or better in the course.

Metals Manufacturing Technology II	
1st semester	76422A
2nd semester	6422B
GPA Weight:	4.0
Prerequisite:	Metals Manufacturing I with Geometry as a recommended prerequisite.
Credit:	2
Grade Level:	10-12

Advanced instruction is given with emphasis on the operation of the lathe, milling machine, drill press, shaper, saws, turning machines, grinders, and welding/cutting equipment. The student is introduced to CAD/CAM (Computer Assisted Drafting/Computer Assisted Manufacturing) and CNC (Computer Numerical Control) processes and to theory and benefits of automated manufacturing. At least 75% of class time is to be devoted to lab or project experience. Skills in leadership, safety, mathematics reading, problem solving, blueprint reading and precision measuring are reinforced. Geometry is a recommended prerequisite. *This is a year long course.*

Students taking this course may receive community college credit at Blue Ridge Community College or Asheville-Buncombe Technical Community College (AB-Tech). To receive college credit students must score an 80 or above on the CTE Post Assessment, as well as, have obtained an overall final average of B or better in the course.

WORK-BASED LEARNING

Apprenticeship	79962X
GPA Weight:	4.0
Prerequisite:	See Guidelines - Prior Approval of Coordinator- Joe Walker
Credit:	1
Grade Level:	11-12

High School Apprenticeship is a special program in conjunction with the N.C. Dept. of Labor that provides qualified junior and senior students the opportunity to begin learning a trade by combining on-the-job training with their high school schedule. The students will receive high school credit as well as credit hours toward journeyman certification to their trade. *The students must meet strict guidelines and be approved by the High School Apprenticeship Coordinator.*

Participation Criteria: Must be a high school junior or senior, have completed or be enrolled in a course that is related to the apprenticeship trade, have at least a 2.0 GPA, have attendance and citizenship record approved by the Apprenticeship Coordinator, have appropriate math and measuring skills, have appropriate language skills, recommendations from one Guidance Counselor and one former or present teacher from each of the following subjects (math-communication skills, Vocational/Technology-from the job related courses), *be willing to make a firm commitment to the Apprenticeship Program.*

Internship	95622X
GPA Weight:	4.0
Prerequisite:	Prior Approval of Coordinator- Joe Walker
Credit:	1
Grade:	11-12

High School Internship is a school-to-work program that provides a qualified student the opportunity to explore areas of academic, career, or service interest in local governmental and civic agencies, business, and industries and/or with individuals. The goals of the internship program are to establish positive relationships between the intern, the school, and the community and to enable students to earn a credit for school-to-work experiences of an academic nature. Further, the internship program seeks to accomplish development of good habits, personal growth, communication skills, and the students' awareness of community resources.

APEX

APEX is an online learning program that is available to students to recover credits when they do not have enough credits to graduate. These courses are taken as a 5th block after school and MUST be completed within one semester. These courses typically cost \$75 for the first course and \$50 for a second recovered credit. Please see a counselor for more information on offerings and payment arrangements.

AB TECH COURSES

(Funding for these courses depends on the North Carolina State Budget. It is possible that students will have to pay A-B Tech tuition and buy books for these courses.)

ARC Welding	89992C
GPA Weight:	4.0
Prerequisite:	Metals Mfg. I recommended
Credit:	2 at MHS; additional college credit through AB-Tech.
Grade Level:	Must be 16 years old

This course introduces the shielded metal arc (stick) welding process. Emphasis is placed on padding, fillet, and groove welds in various positions with SMAW electrodes. Upon completion, students should be able to perform SMAW fillet and groove welds on carbon plate with prescribed electrodes. Capacity 8 students. (2 block course)

Introduction to Computers (CIS 110)

GPA Weight:	5.0
Prerequisite:	Basic computer literacy and keyboarding proficiency
Credit:	1 credit at MHS; 3 college credits at AB Tech
Grade Level:	11-12

This course introduces computer concepts, including fundamental functions and operations of the computer. Topics include identification of hardware components, basic computer operations, security issues, and use of software applications. Upon completion, students should be able to demonstrate an understanding of the role and function of computers and use the computer to solve problems. Microsoft Office will be used in this course; this includes Word, Excel, Access and PowerPoint. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in natural science/mathematics (Quantitative Option).

Criminal Justice

The Criminal Justice offerings will be altered so that you may complete a **Pathway in Public Service** by taking these two courses and two other courses at MHS in the Public Service Pathway.

Criminal Justice I (CJC 112/131/114)

49992X
4.0
None
1 at MHS, 8 at AB Tech
11-12

GPA Weight:	4.0
Prerequisite:	None
Credit:	1 at MHS, 8 at AB Tech
Grade Level:	11-12

CJC 112: Criminology

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

CJC 131: Criminal Law

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

CJC 114: Investigative Photography Interviews/Interrogations

This course covers the operation of various photographic equipment and its application to criminal justice. Topics include using various cameras, proper exposure of film, developing film/prints, and preparing photographic evidence. Upon completion, students should be able to demonstrate and explain the role of photography and proper film exposure and development techniques.

Criminal Justice II (CJC 212/231/120)	49992C
GPA Weight:	4.0
Prerequisite:	None
Credit:	1 at MHS, 8 at AB Tech
Grade Level:	11-12

CJC 212: Ethics and Community Relations

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

CJC 231: Constitutional Law

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

CJC 120: Interviews/Interrogations

This course covers basic and special techniques employed in criminal justice interviews and interrogations. Emphasis is placed on the interview/interrogation process, including interpretation of verbal and physical behavior and legal perspectives. Upon completion, students should be able to conduct interviews/interrogations in a legal, efficient, and professional manner and obtain the truth from suspects, witnesses, and victims.

MIG Welding	89992M
GPA Weight:	4.0
Prerequisite:	Metals Mfg. I recommended
Credit:	2 at MHS; additional college credit through AB-Tech.
Grade Level:	Must be 16 years old

This course introduces metal arc welding and flux core arc welding processes. Topics include equipment setup and fillet and groove welds with emphasis on application of GMAW and FCAW electrodes on carbon steel plate. Upon completion, students should be able to perform fillet welds on carbon steel with prescribed electrodes in the flat, horizontal, and overhead positions. Capacity 8 students. (2 block course)

College Algebra/Trig. (MAT 175)	24995C
GPA Weight:	5.0
Prerequisite:	Pre-calculus, Place into course on Accuplacer
Credit:	1 at MHS, 4 at AB Tech
Grade Level:	11-12

This course provides an intense study of the topics which are fundamental to the study of Calculus. Emphasis is placed on functions and their graphs with special attention to polynomial, rational, exponential, logarithmic and trigonometric functions and analytic trigonometry. Upon completion, students should be able to solve practical problems and use appropriate models for analysis and prediction.

Statistics (Math 151/151A) - Honors	24995X
GPA Weight:	5.0
Prerequisite:	Pre-calculus, Place into course on Accuplacer
Credit:	1 at MHS, 4 at AB Tech
Grade Level:	11-12

This course provides a project-based approach to the study of basic probability, descriptive and inferential statistics, and decision-making. Emphasis is placed on measures of central tendency and dispersion, correlation, regression, discrete and continuous probability distributions, quality control, population parameter estimation, and hypothesis testing. Upon completion, students should be able to describe important characteristics of a set of data and draw inferences about a population from sample data.

Calculus (Math 271) - Honors	24995A
GPA Weight:	5.0
Prerequisite:	Pre-calculus, placement test scores
Credit:	1 at MHS, 4 at AB Tech
Grade Level:	11-12

This course covers in depth the differential calculus portion of a three-course calculus sequence. Under the Comprehensive Articulation Agreement, four credits in college calculus will be awarded and are transferable to any college in the NC University System with a C average. There is not an Advanced Placement Exam with this course.

LEARN AND EARN ONLINE COURSES

(Funding for these courses depends on the North Carolina State Budget. It is possible that students will have to pay A-B Tech tuition and buy books for these courses.)

Principles of Biology

BIO 110

GPA Weight: 5.0
Prerequisite: High school biology; minimum 3.0 high school GPA
Credit: 1 credit at MHS; 4 college credits at AB Tech
Grade Level: 11-12

This course provides a survey of fundamental biological principles for non-science majors. Emphasis is placed on basic chemistry, cell biology, metabolism, genetics, taxonomy, evolution, ecology, diversity, and other related topics. Upon completion, students should be able to demonstrate increased knowledge and better understanding of biology as it applies to everyday life. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in natural sciences/mathematics.

Environmental Biology and Environmental Biology Lab Courses must be taken together)

BIO 140 and BIO 140A

GPA Weight: 5.0
Prerequisite: High school biology; minimum 3.0 high school GPA
Credit: 1 credit at MHS; 4 college credits at AB Tech
Grade Level: 11-12

BIO 140 introduces environmental processes and the influence of human activities upon them. Topics include ecological concepts, population growth, natural resources, and a focus on current environmental problems from scientific, social, political, and economic perspectives. Upon completion, students should be able to demonstrate an understanding of environmental interrelationships and of contemporary environmental issues. BIO 140A provides a laboratory component to complement BIO 140. Emphasis is placed on laboratory and field experience. Upon completion, students should be able to demonstrate a practical understanding of environmental interrelationships and of contemporary environmental issues. These courses have been approved for transfer under the CAA as a general education course in Natural Science.

Nutrition

BIO 155

GPA Weight: 5.0
Prerequisite: High school biology; minimum 3.0 high school GPA
Credit: 1 credit at MHS; 3 college credits at AB Tech
Grade Level: 11-12

This course covers the biochemistry of foods and nutrients with consideration of the physiological effects of specialized diets for specific biological needs. Topics include cultural, religious, and economic factors that influence a person's acceptance of food, as well as nutrient requirements of the various life stages. Upon completion, students should be able to identify the functions and sources of nutrients, the mechanisms of digestion, and the nutritional requirements of all age groups. This course has been approved for transfer under the CAA as a pre-major and/or elective course requirement.

Basic Anatomy & Physiology

BIO 163

GPA Weight: 5.0
Prerequisite: Place into ENG 111 on reading portion of Accuplacer or 500 on reading portion of SAT.
High school biology; minimum 3.0 high school GPA
Credit: 1 credit at MHS; 3 college credits at AB Tech
Grade Level: 11-12

This course provides a basic study of the structure and function of the human body. Topics include a basic study of the body systems as well as an introduction to homeostasis, cells, tissues, nutrition, acid-base balance, and electrolytes. Upon completion, students should be able to demonstrate a basic understanding of the fundamental principles of anatomy and physiology and their interrelationships. This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.

Introduction to Computers

CIS 110

GPA Weight: 5.0
Prerequisite: Basic computer literacy and keyboarding proficiency
Credit: 1 credit MHS; 3 college credits at AB Tech
Grade Level: 11-12

This course introduces computer concepts, including fundamental functions and operations of the computer. Topics include identification of hardware components, basic computer operations, security issues, and use of software applications. Upon completion, students should be able to demonstrate an understanding of the role and function of computers and use the computer to solve problems. Microsoft Office will be used in this course; this includes Word, Excel, Access and PowerPoint. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in natural science/mathematics (Quantitative Option).

Intro to Programming and Logic

GPA Weight:

Prerequisite:

Credit:

Grade Level:

This course introduces computer programming and problem solving in a structured program logic environment. Topics include language syntax, data types, program organization, problem solving methods, algorithm design, and logic control structures. Upon completion, students should be able to manage files with operating system commands, use top-down algorithm design, and implement algorithmic solutions in a programming language. This course has been approved for transfer under the CAA as a general education course in Mathematics (Quantitative).

CIS 115

5.0

55 on Algebra part of Accuplacer or 500 on Math portion of SAT;

Basic computer literacy and keyboarding proficiency

1 credit at MHS; 3 college credits at AB Tech

11-12

Introduction to GIS

GPA Weight:

Prerequisite:

Credit:

Grade Level:

This course introduces the hardware and software components of a Geographic Information System and reviews GIS applications. Topics include data structures and basic functions, methods of data capture and sources of data, and the nature and characteristics of spatial data and objects. Upon completion, students should be able to identify GIS hardware components, typical operations, products/applications, and differences between database models and between raster and vector systems. This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.

GIS 111

5.0

None

1 credit at MHS; 3 college credits at AB Tech

11-12

**College Algebra and College Algebra Lab
(Courses must be taken together)**

GPA Weight:

Prerequisite:

Credit:

Grade Level:

MAT 161 provides an integrated technological approach to algebraic topics used in problem solving. Emphasis is placed on applications involving equations and inequalities; polynomial, rational, exponential and logarithmic functions; and graphing and data analysis/modeling. Upon completion, students should be able to choose an appropriate model to fit a data set and use the model for analysis and prediction. This course satisfies the general education Mathematics requirement for the AA and AFA degrees. It does not satisfy the general education Mathematics requirement for the AS degree. MAT 161A

MAT 161 and MAT 161A

5.0

Place into MAT 161 on the Accuplacer or 500 on math portion of SAT

1 credit at MHS; 3 college credits at AB Tech

11-12

Security Concepts

GPA Weight:

Prerequisite:

Credit:

Grade Level:

This course introduces the concepts and issues related to securing information systems and the development of policies to implement information security controls. Topics include the historical view of networking and security, security issues, trends, security resources, and the role of policy, people, and processes in information security. Upon completion, students should be able to identify information security risks, create an information security policy, and identify processes to implement and enforce policy. This course is not part of the Comprehensive Articulation Agreement with the University of North Carolina System; however, it does provide credit toward A-B Tech's 2+2 agreement with East Carolina University.

SEC 110

4.0

Basic computer literacy and keyboarding proficiency

1 credit at MHS; 3 college credits at AB Tech

11-12

Internet/Web Fundamentals

GPA Weight:

Prerequisite:

Credit:

Grade Level:

This course introduces World Wide Web Consortium (W3C) standard markup language and services of the Internet. Topics include creating web pages, search engines, FTP, and other related topics. Upon completion, students should be able to deploy a hand-coded web site created with mark-up language, and effectively use and understand the function of search engines.

WEB110

4.0

Basic computer literacy and keyboarding proficiency

1 credit at MHS; 3 college credits at AB Tech

11-12

Introduction to GIS

GPA Weight: 5.0
 Prerequisite: None
 Credit: 1 credit at MHS; 3 college credits at AB Tech
 Grade Level: 11-12

This course introduces the hardware and software components of a Geographic Information System and reviews GIS applications. Topics include data structures and basic functions, methods of data capture and sources of data, and the nature and characteristics of spatial data and objects. Upon completion, students should be able to identify GIS hardware components, typical operations, products/applications, and differences between database models and between raster and vector systems. This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.

GIS 111**College Algebra and College Algebra Lab
(Courses must be taken together)**

GPA Weight: 5.0
 Prerequisite: Place into MAT 161 on the Accuplacer or 500 on math portion of SAT
 Credit: 1 credit at MHS; 3 college credits at AB Tech
 Grade Level: 11-12

MAT 161 provides an integrated technological approach to algebraic topics used in problem solving. Emphasis is placed on applications involving equations and inequalities; polynomial, rational, exponential and logarithmic functions; and graphing and data analysis/modeling. Upon completion, students should be able to choose an appropriate model to fit a data set and use the model for analysis and prediction. This course satisfies the general education Mathematics requirement for the AA and AFA degrees. It does not satisfy the general education Mathematics requirement for the AS degree. MAT 161A

MAT 161 and MAT 161A**Security Concepts**

GPA Weight: 4.0
 Prerequisite: Basic computer literacy and keyboarding proficiency
 Credit: 1 credit at MHS; 3 college credits at AB Tech
 Grade Level: 11-12

This course introduces the concepts and issues related to securing information systems and the development of policies to implement information security controls. Topics include the historical view of networking and security, security issues, trends, security resources, and the role of policy, people, and processes in information security. Upon completion, students should be able to identify information security risks, create an information security policy, and identify processes to implement and enforce policy. This course is not part of the Comprehensive Articulation Agreement with the University of North Carolina System; however, it does provide credit toward A-B Tech's 2+2 agreement with East Carolina University.

SEC 110**Internet/Web Fundamentals**

GPA Weight: 4.0
 Prerequisite: Basic computer literacy and keyboarding proficiency
 Credit: 1 credit at MHS; 3 college credits at AB Tech
 Grade Level: 11-12

This course introduces World Wide Web Consortium (W3C) standard markup language and services of the Internet. Topics include creating web pages, search engines, FTP, and other related topics. Upon completion, students should be able to deploy a hand-coded web site created with mark-up language, and effectively use and understand the function of search engines.

WEB110**Web Markup and Scripting**

GPA Weight: 4.0
 Prerequisite: Basic computer literacy and file management skills
 Credit: 1 credit at MHS; 3 college credits at AB Tech
 Grade Level: 11-12

This course introduces Worldwide Web Consortium (W3C) standard client-side Internet programming using industry-established practices. Topics include JavaScript, markup elements, style sheets, validation, accessibility, standards, and browsers. Upon completion, students should be able to develop hand-coded web pages using current markup standards.

WEB115**Intro to Early Childhood Education**

GPA Weight: 4.0
 Prerequisite: None
 Credit: 1 credit at MHS; 4 college credits at AB Tech
 Grade Level: 11-12

This course covers the foundations of the education profession, the diverse educational settings for young children, professionalism and planning developmentally appropriate programs for all children. Topics include historical foundations, program types, career options, professionalism and creating inclusive environments and curriculum responsive to the needs of all children and families. Upon completion, students should be able to design career plans and develop schedules, environments and activity plans appropriate for all children. Explain environmental factors that impact development, and identify strategies for enhancing development. This course has been approved for transfer under the CAA as a pre-major and/or elective course requirement.

EDU119

Child Development I**EDU144**

GPA Weight: 5.0
 Prerequisite: Student must place into ENG 090 and RED 090 or higher on Accuplacer
 Credit: 1 credit at MHS; 3 college credits at AB Tech
 Grade Level: 11-12

This course includes the theories of child development, needs, milestones, and factors that influence development, from conception through approximately 36 months. Emphasis is placed on developmental sequences in physical/motor, emotional/social, cognitive, and language domains and the impact of multiple influences on development and learning. Upon completion, students should be able to compare/contrast typical/atypical developmental characteristics, explain environmental factors that impact development, and identify strategies for enhancing development. This course has been approved for transfer under the CAA as a premajor and/or elective course requirement.

Child Development II**EDU145**

GPA Weight: 5.0
 Prerequisite: Student must place into ENG 090 and RED 090 or higher on Accuplacer
 Credit: 1 credit at MHS; 3 college credits at AB Tech
 Grade Level: 11-12

This course includes the theories of child development, needs, milestones, and factors that influence development, from preschool through middle childhood. Emphasis is placed on developmental sequences in physical/motor, emotional/social, cognitive, and language domains and the impact of multiple influences on development and learning. Upon completion, students should be able to compare/contrast typical/atypical developmental characteristics, ex

Intro to Entrepreneurship**ETR210**

GPA Weight: 4.0
 Prerequisite: None
 Credit: 1 credit at MHS; 3 college credits at AB Tech
 Grade Level: 11-12

This course provides a survey of the starting and operating of an entrepreneurial venture. Topics include new venture creation, the business plan, economics of the business, determining resource needs and acquiring resources, marketing, technology, leadership skills, and business ethics. Upon completion, students should be able to demonstrate an understanding of entrepreneurship concepts and how to use the entrepreneurial mindset to succeed in their careers.

Intro to Interpersonal Communication**COM120**

GPA Weight: 5.0
 Prerequisite: None
 Credit: 1 credit at MHS; 3 college credits at AB Tech
 Grade Level: 11-12

This course introduces the practices and principles of interpersonal communication in both dyadic and group settings. Emphasis is placed on the communication process, perception, listening, self-disclosure, speech apprehension, ethics, nonverbal communication, conflict, power, and dysfunctional communication relationships. Upon completion, students should be able to demonstrate interpersonal communication skills, apply basic principles of group discussion, and manage conflict in interpersonal communication situations. This course has been approved to satisfy the Comprehensive Articulation.

Expository Writing**ENG111**

GPA Weight: 5.0
 Prerequisite: Senior English,
 Placement into ENG 111 on Accuplacer or 500 on both English portions of SAT
 Credit: 1 credit at MHS; 3 college credits at AB Tech
 Grade Level: 11-12

This course is the required first course in a series of two designed to develop the ability to produce clear expository prose. Emphasis is placed on the writing process including audience analysis, topic selection, thesis support and development, editing, and revision. Upon completion, students should be able to produce unified, coherent, well-developed essays using standard written English. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in English Composition.

Myth in Human Culture**HUM130**

GPA Weight: 5.0
 Prerequisite: None
 Credit: 1 credit at MHS; 3 college credits at AB Tech
 Grade Level: 11-12

This course provides an in-depth study of myths and legends. Topics include the varied sources of myths and their influence on the individual and society within diverse cultural contexts. Upon completion, students should be able to demonstrate a general familiarity with myths and a broad-based understanding of the influence of myths and legends on modern culture. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts.

General Psychology**PSY150**

GPA Weight:

5.0

Prerequisite:

None

Credit:

1 credit at MHS; 3 college credits at AB Tech

Grade Level:

11-12

This course provides an overview of the scientific study of human behavior. Topics include history, methodology, biopsychology, sensation, perception, learning, motivation, cognition, abnormal behavior, personality theory, social psychology, and other relevant topics. Upon completion, students should be able to demonstrate a basic knowledge of the science of psychology. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in social/behavioral science.

World Religions**REL110**

GPA Weight:

5.0

Prerequisite:

None

Credit:

1 credit at MHS; 3 college credits at AB Tech

Grade Level:

11-12

This course introduces the world's major religious traditions. Topics include Primal religions, Hinduism, Buddhism, Islam, Judaism, and Christianity. Upon completion, students should be able to identify the origins, history, beliefs, and practices of the religions studied. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts.

Introduction to Sociology**SOC210**

GPA Weight:

5.0

Prerequisite:

None

Credit:

1 credit at MHS; 3 college credits at AB Tech

Grade Level:

11-12

This course introduces the scientific study of human society, culture, and social interactions. Topics include socialization, research methods, diversity and inequality, cooperation and conflict, social change, social institutions, and organizations. Upon completion, students should be able to demonstrate knowledge of sociological concepts as they apply to the interplay among individuals, groups, and societies. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in social/behavioral science.

Introduction to Business**BUS110**

GPA Weight:

5.0

Prerequisite:

None

Credit:

1 credit at MHS; 3 college credits at AB Tech

Grade Level:

11-12

This course provides a survey of the business world. Topics include the basic principles and practices of contemporary business. Upon completion, students should be able to demonstrate an understanding of business concepts as a foundation for studying other business subjects. This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.

ACHIEVEMENT HONORS PROGRAM

The Madison County Board of Education and the County Commissioners sponsor an annual program to recognize outstanding academic achievement among Madison High School students. The following categories of students will be recognized as high achievers during the annual student recognition program:

1. Students who are in the top 10% of their class according to their cumulative weighted grade point average by the 150th day.
2. Students who have a **current** weighted grade point average of 3.75 by the 150th school day will be recognized. Current grade point average is calculated using only grades earned during the current school year.
3. Students who have maintained perfect attendance for the school year. Perfect attendance is awarded if a student has been in class every class period, with no absences and no tardies, during the school year on the 150th day. Absences and tardies may not be made-up for perfect attendance.

DUAL ENROLLMENT/ ONLINE LEARNING

Madison High School and local colleges, including Mars Hill Collge, UNC-Asheville, and Asheville Buncombe Technical Community College, have establish procedures to enable seniors to be “dually enrolled” at both institutions. Seniors wishing to take a college class on the college campus for part of the school day should see their School Counselor for sepcific instructions. MHS students who take a college course during the school day in lieu of a course offered on the high school campus may receive credit both at MHS and at the college where the course is taken. Students must provide their own transportation and be responsible for all costs incurred. **When not assigned to a MHS class students should not be on the MHS campus.** To enroll in a Dual Enrollment course, the student should first select a course from the college’s schedule, and then see his/her counselor for specific instructions. Students must be 16 years old to dual enroll, and for most courses must have a 3.0 GPA. There are also opportunities to take online courses through the Learn and Earn Online program, Virtual Public School, and APEX. Online courses require a high level of self motivation and independent learning. Attendance policies apply to online classes. See your school counselor for eligibility and registration information.

GRADING SCALES FOR STANDARD COURSES

The conversion of grades to quality points is standardized statewide. Grades and corresponding number of quality points are shown below.

96-100 = 4.0	90% = 3.25	85% = 2.625	80% = 2.00	75% = 1.375
95% = 3.875	89% = 3.125	84% = 2.50	79% = 1.875	74% = 1.25
94% = 3.75	88% = 3.00	83% = 2.375	78% = 1.75	73% = 1.125
92% = 3.50	87% = 2.875	82% = 2.25	77% = 1.625	72% - 70% = 1.00
91% = 3.375	86% = 2.75	81% = 2.125	76% = 1.50	69% = 0.00

Honors Courses: Add 1 quality point per grade.
 AP Courses: Add 2 quality points per grade.

GRADE CLASSIFICATION

9th Grade	Completion of 8th Grade
10th Grade	6 Units
11th Grade	12 Units
12 Grade	20 Units

Madison High School Pathways

FOR THE CLASSES OF 2009-2012. To graduate in either the College Tech Prep or Career Prep Pathway, students must complete four credits (one of which is a * course) of Career and Technical Education requirements in one of the following pathways:

AGRICULTURAL AND NATURAL RESOURCES TECHNOLOGIES

Career Management
Small Business/Entrepreneurship
Computer Applications I
Digital Communication Systems
Agriscience Applications
Animal Science I
Animal Science II
Equine Science I
Horticulture I
Horticulture II*
Horticulture II - Landscape Construction*
Environmental & Natural Resources I
Environmental & Natural Resources II*
Drafting I
Agricultural Advanced Study*

CONSTRUCTION TECHNOLOGIES

Career Management
Small Business/Entrepreneurship
Computer Applications I
Digital Communication Systems
Agricultural Mechanics I
Housing & Interiors I
Masonry I
Masonry II*
Construction Technology I
Construction II*
Drafting I
Drafting II - Architectural*
Drafting III - Architectural
Fundamentals of Technology
Trade & Industrial Apprenticeship*
Trade & Industrial Internship
Trade & Industrial Advanced Study*

HEALTH SCIENCES

Career Management
Small Business/Entrepreneurship
Computer Applications I
Digital Communication Systems
Foods I - Fundamentals
Parenting & Child Development
Biomedical Technology
Health Team Relations
Allied Health Sciences I
Allied Health Sciences II*
Health Sciences Apprenticeship*
Health Sciences Advanced Study*

INDUSTRIAL TECHNOLOGIES

Career Management
Small Business/Entrepreneurship
Computer Applications I
Digital Communication Systems
Metals Manufacturing Technology I
Metal Manufacturing Technology II*
Drafting I
Fundamentals of Technology
Trade & Industrial Apprenticeship*
Trade & Industrial Internship
Manufacturing Systems

BUSINESS TECHNOLOGIES

Career Management
Principles of Business & Personal Finance
Small Business/Entrepreneurship
Computerized Accounting I
Computerized Accounting II*
Computer Applications I
Computer Applications II*
Digital Communication Systems
e-Commerce I
Business & Electronic Communications
Marketing
Fashion Merchandising
Travel, Tourism & Recreational Marketing*
Marketing Co-op
Sports & Entertainment Marketing I

ENGINEERING TECHNOLOGIES

Career Management
Small Business/Entrepreneurship
Computer Applications I
Digital Communication Systems
Drafting I
Drafting II - Engineering*
Drafting III - Engineering
Computer Engineering I
Computer Engineering II*
Trade & Industrial Apprenticeship Method*
Trade & Industrial Internship
Fundamentals of Technology
Manufacturing Systems*
Communication Systems*

PUBLIC SERVICE TECHNOLOGIES

Career Management
Small Business/Entrepreneurship
Computer Applications I
Digital Communication Systems
Teen Living
Apparel Development I
Foods I - Fundamentals
Foods II - Advanced*
Housing & Interiors I
Parenting & Child Development
Life Management
Early Childhood Education I
Early Childhood Education II*
Criminal Justice I
Criminal Justice II*
Family & Consumer Sciences Apprenticeship*
Family & Consumer Sciences Internship
Family & Consumer Sciences Advanced Study*

NORTH CAROLINA CAREER CLUSTERS

(Beginning with the freshman class of 2009 - 2010)

*Students must take at least four technical credits from a cluster. At least 3 of the technical credits must come from the Foundation Courses. At least one of the Foundational courses must be a level II or starred (*) course. The 4th technical credit can be either a Foundational or Enhancement course.*



Foundational Courses

6810	Agriscience Applications
6821	Animal Science I
6822*	Animal Science II
6825	Equine Science I
6826*	Equine Science II
6831	Agriculture Mechanics I
6832*	Agriculture Mechanics II
6841	Horticulture I
6842*	Horticulture II
6851	Envir. & Natural Resources Studies I
6852*	Envir & Natural Resources Studies II
6896	Agricultural Apprenticeship
6899*	Agricultural Advanced Studies
7015	Teen Living
7045	Foods I - Fundamentals
7046*	Foods II - Advanced
7075*	Foods II- Food Science
7196	FACS. Apprenticeship
7199*	FACS Advanced Studies

Enhancement Courses

6145	Career Management
6200/6600	Prin. of Bus. & Finance
6311	Computerized Accounting I-NCVPS
6235/6615	Small Business Entrepreneurship
6417	Microsoft ITA: Word, PowerPoint & Publisher
6419	Microsoft ITA: Excel & Access
6621	Marketing
6898	Agricultural Education Internship
7198	FACS. Internship
7200	Biomedical Technology
AB- Tech	
7921	Arc or Mig Welding Drafting I
8110	Fundamentals of Technology



Foundational Courses

6200/6600	Prin. of Bus. & Finance
6235/6615	Small Business Entrepreneurship
6311	Computerized Accounting I-NCVPS
6414*	Multimedia & Web Design
6215	Business Law Microsoft ITA: Word, PowerPoint & Publisher Microsoft ITA: Excel & Access
6596	Bus. & Information Apprenticeship
6599*	Bus. & Information Advanced Studies

Enhancement Courses

6145	Career Management
6415	E-Commerce I-NCVPS
AB Tech	BUS 110-AB TECH
AB Tech	CIS 110-AB TECH
6598	Business & Information Internship



Foundational Courses

7015	Teen Living
7196	FACS Apprenticeship
7199*	FACS Advanced Studies
7711	Masonry I
7712*	Masonry II
7721	Carpentry I
7722*	Carpentry II
7921	Drafting I
7962*	Drafting - Architectural II
7963	Drafting - Architectural III
7996	T & I Apprenticeship
7999*	T & I Advanced Studies

Enhancement Courses

6145	Career Management
6200/6600	Prin. of Bus. & Finance
6215	Business Law
6235/6615	Small Business Entrepreneurship
6831	Agriculture Mechanics I
6417	Microsoft ITA: Word, PowerPoint & Publisher
6419	Microsoft ITA: Excel & Access
7198	FACS Internship
7998	T & I Internship
8110	Fundamentals of Technology



Foundational Courses

6200/6600	Prin. of Bus. & Finance
6235/6615	Small Business Entrepreneurship
6311	Computerized Accounting I-NCVPS
6312*	Computerized Accounting II-NCVPS
6596	Bus. & Information Apprenticeship
6599*	Bus. & Information Advanced Studies
6215	Business Law

Enhancement Courses

6417	Microsoft ITA: Word, PowerPoint & Publisher
6419	Microsoft ITA: Excel & Access
6598	Business & Information Internship
7015	Teen Living
6145	Career Management



Foundational Courses

7015	Teen Living
7196	FACS Apprenticeship
7199*	FACS Advanced Studies
7921	Drafting I
7996	T & I Apprenticeship
7999*	T & I Advanced Studies

Enhancement Courses

6200/6600	Prin. of Bus. & Finance
6235/ 6615	Small Business Entrepreneurship
6417	Microsoft ITA: Word, PowerPoint & Publisher
6419	Microsoft ITA: Excel & Access
6145	Career Management
6631	Fashion Merchandising
7198	FACS Internship
7998	T & I Internship
8110	Fundamentals of Technology



Foundational Courses

7200	Biomedical Technology
7210	Health Team Relations
7211	Allied Health Sciences I
7212*	Allied Health Sciences II
7242	Health Sciences II
7243	Nursing Fundamentals
7296	Health Sciences Apprenticeship
7299*	Health Sciences Advanced Studies

Enhancement Courses

6200/6600	Prin. of Bus. & Finance
6235/6615	Small Business Entrepreneurship
6311	Computerized Accounting I-NCVPS
6417	Microsoft ITA: Word, PowerPoint & Publisher
6419	Microsoft ITA: Excel & Access
6145	Career Management
7045	Foods I - Fundamentals
7298	Health Careers Internship

NORTH CAROLINA CAREER CLUSTERS (continued)

(Beginning with the freshman class of 2009 - 2010)

*Students must take at least four technical credits from a cluster. At least 3 of the technical credits must come from the Foundation Courses. At least one of the Foundational courses must be a level II or starred (*) course. The 4th technical credit can be either a Foundational or Enhancement course.*



Foundational Courses		Enhancement Courses	
6621	Marketing	6200/6600	Prin. of Bus. & Finance
6670	Sports & Entertainment Marketing I	6417	Microsoft ITA: Word, PowerPoint & Publisher
6671*	Sports & Entertainment Marketing II	6419	Microsoft ITA: Excel & Access
6645*	Travel/Tourism & Recreation Marketing	6145	Career Management
6696/6697	Marketing Apprenticeship or Coop	6235/6615	Small Business Entrepreneurship
6699*	Marketing Advanced Studies	6698	Marketing Education Internship
7015	Teen Living	7198	FACS Internship
7045	Foods I		
7196	FACS Apprenticeship		
7199*	FACS Advanced Studies		



Foundational Courses		Enhancement Courses	
7641	Metals Manufacturing I	6415	E- Commerce I-NCVPS
7642*	Metals Manufacturing II	6145	Career Management
7921	Drafting I	6417	Microsoft ITA: Word, PowerPoint & Publisher
7996	T & I Apprenticeship	6419	Microsoft ITA: Excel & Access
7999*	T & I Advanced Studies	6235/6615	Small Business Entrepreneurship
		6621	Marketing
		8110	Fundamentals of Technology
		8115	Manufacturing Systems
		7998	T & I Internship



Foundational Courses		Enhancement Courses	
AB Tech	EDU 144	6200/6600	Prin. of Bus. & Finance
7015	Teen Living	6235/6615	Small Business Entrepreneurship
7065	Parenting and Child Development	6417	Microsoft ITA: Word, PowerPoint & Publisher
7111	Early Childhood Ed I	6419	Microsoft ITA: Excel & Access
7112*	Early Childhood Ed II	6145	Career Management
7196	FACS Apprenticeship	7198	FACS Internship
7199*	FACS Advanced Studies	7210	Health Team Relations
AB Tech	Criminal Justice Courses	7998	T & I Internship
7996	T & I Apprenticeship		
7999*	T & I Advanced Studies		



Foundational Courses		Enhancement Courses	
6235/6615*	Small Business Entrepreneurship	6200/6600	Prin. of Bus. & Finance
6621	Marketing	6311	Computerized Accounting I-NCVPS
6631	Fashion Merchandising	6417	Microsoft ITA: Word, PowerPoint & Publisher
6670	Sports Marketing I	6419	Microsoft ITA: Excel & Access
6696	Marketing Apprenticeship	6415	E-Commerce I-NCVPS
6697	Marketing Coop.	6145	Career Management
6699*	Marketing Advanced Studies	6698	Marketing Education Internship



Foundational Courses		Enhancement Courses	
6417	Microsoft ITA: Word, PowerPoint & Publisher	6200/6600	Prin. of Bus. & Finance
6419	Microsoft ITA: Excel & Access	6235/6615	Small Business Entrepreneurship
6415	E- Commerce-NCVPS	6414	Multimedia & Webpage Design
6596	Bus. & Information Apprenticeship	6145	Career Management
6599*	Bus. & Information Advanced Studies	6598	Marketing Edu. Internship
7996	T & I Apprenticeship	7921	Drafting I
7999*	T & I Advanced Studies	7998	T & I Internship
		8110	Fundamentals of Technology



Foundational Courses		Enhancement Courses	
8005*	Technology Advanced Studies	6417	Microsoft ITA: Word, PowerPoint & Publisher
8110	Fundamentals of Technology	6419	Microsoft ITA: Excel & Access
8196	Technology Apprenticeship	6145	Career Management
7921	Drafting I	7998	T & I Internship
7972*	Drafting - Engineering II	8198	Technology Internship
7973	Drafting - Engineering III		
7996	T & I Apprenticeship		
7999*	T & I Advanced Studies		