

WBHS CURRICULUM GUIDE

INTRODUCTION

The Curriculum Guide is intended to familiarize students and parents with the course offerings at WBHS and to encourage students to plan a comprehensive program that meets their individual needs.

The courses described in the Curriculum Guide are potential offerings for the academic year. Through the pre-registration and registration processes, a master schedule will be designed based upon student demand for elective courses. All elective courses are subject to change and may not become part of the final schedule.

STUDENT ADVISING

School counselors are available to assist with educational planning, post-secondary training, individual counseling, and consultation with parents and teachers. Transfer students must meet with a school counselor to plan an appropriate academic program and must bring an official transcript, test records, and documents of any custodial arrangements pertaining to the transfer.

CLASSIFICATION REQUIREMENTS

The credit requirements for grade classification are as follows:

- 5 credits must be earned to be a sophomore.
- 12 credits must be earned to be a junior.
- 20 credits must be earned to be a senior.

CHANGE OF STUDENT SCHEDULE

The master schedule is developed from student requests and from the registration process. The individual student schedule requests should be selected with great care by both parents and students. No student can be guaranteed a particular schedule. Every effort will be made to balance schedules and to meet individual student needs.

Request for changes in a student's schedule will be considered only under the following circumstances:

1. An error has been made in the scheduling of requested classes.
2. A course is needed by a **twelfth grade student** in order to graduate.
3. A student passed a course, which he/she assumed would be failed resulting in no credit.
4. A student has failed a course(s) and needs to repeat it.

Changes will be considered on a space-available basis. It is the responsibility of the student to report any of the above situations to the school guidance office.

All changes and schedules will be considered final as of the first week of the term.

9TH GRADE ACADEMY

STUDENT COURSE LOAD

Ninth graders will register for 8 classes. Core classes will be based on the recommendations of eighth -grade teachers, seventh and eighth grade standardized testing data, work habits, ninth-grade teacher advising, required courses, and student/parent input. Each student will be enrolled in a math, English, science, and social studies class and either wellness or ROTC. Wellness and ROTC are each year-long electives that will generate 2 credits. Students will then choose two semester-long electives. Students will take End of Course exams in English I, Biology, and Algebra I. These End of Course exams will count for a percentage of the overall grade in the class.

GRADE REPORTING

The academic year is 36 weeks, or 180 days. Grade reporting occurs four times during the 36-week course: at the end of each 9 weeks and at the end of each term. Progress reporting occurs at the midpoint (4 ½ weeks and 13 ½ weeks) of each 9-week grading period. Students receive grade reports at each 9 weeks on an official school form. Students are responsible for taking each grade report home.

Core subject area courses will be year-long and will generate 1 credit each. Elective courses will be semester- long but will also generate a full credit. Ninth graders, therefore, have the opportunity to earn 8 credits during the course of the year. The Freshman Focus course is a non-credit advisory course that is required for all ninth graders.

MAIN CAMPUS

STUDENT COURSE LOAD GRADES 10, 11, 12

Students in grades 10-12 will register for 5 classes to be completed during the first term and 5 classes to be completed during the second term, totaling 10 possible credits in one year. No study hall classes are offered; but if rare circumstances require a study hall, students will be placed in a classroom setting under the supervision of an instructor.

Planning the yearly course of study should be completed carefully, with consideration given to required courses, the chosen educational program of study, student interest, and preparation for different levels of course work. Required courses will be balanced over the 4 years of high school. Students will have English and math course all 4 years and a science or social studies course each consecutive year until requirements are met. Placement in honors level courses with prerequisites is determined by teacher recommendation and guidelines (listed by course) in the course descriptions.

**GRADE REPORTING
GRADES 10, 11, 12**

The year is divided into two terms of 18 weeks. Each term generates 1 full credit in a course. Grade reporting occurs two times during the 18-week course: at the end of the first 9 weeks and at the end of the term. Progress reporting occurs at the midpoint (4 ½ weeks and 13 ½ weeks) of each 9-week grading period. Students receive grade reports at each 9 weeks on an official school form. Students are responsible for taking each grade report home.

**GRADUATION REQUIREMENTS
STUDENTS ENTERING HIGH SCHOOL IN SY 2009/2010 AND AFTER**

The Tennessee State Department of Education requires the following units of credit for graduation. Local requirement(s) for additional credit are also listed:

<u>State Core Curriculum</u>	<u>Credits</u>
English/Language Arts	4
Mathematics*	4
Science**	3
World Geography/World History	1
US History	1
Economics	1/2
Personal Finance	1/2
US Government	1
Wellness	1
Physical Education	1/2
Fine Arts	1
Foreign Language	2
<u>Elective Focus/Program of Study****</u>	<u>3</u>
Total	22
 <u>Local Requirement(s)</u>	
Computer	1

*Students entering high in SY 2009/2010 and after must take a math class every year, including Algebra I, Geometry, Algebra II, and an upper level math. A credit received for Algebra I at the middle school level meets the requirement for the Algebra I high school credit; however, students must take a math course each year of high school. Students who have not earned a 19 on the mathematics component of the ACT by the beginning of the senior year are recommended to complete the Bridge Math as their upper level math course.

**The three required science credits must include Biology I and Chemistry I or Physics.

***Blount County students must earn 3.5 credits in Social Studies, including World History

or World Geography, U.S. History, Economics (.5 credit), and Government.

****An Elective Focus/Program of Study consists of 3 credits in one of the following areas: CTE, science and math, humanities, fine arts, or JROTC.

In addition to the State Core Curriculum and the local requirement, students must take elective courses to add up to the total of 28 credits required locally for graduation.

Under exceptional circumstances, the foreign language and fine arts credits may be waived for students who are sure they are not going to attend a four year college or university. These students must choose an additional 3-course elective focus to replace the foreign language and fine arts credits. Parents should contact a school counselor for more information.

GRADUATING WITH HONORS

Per Tennessee State law, students who score at or above all of the subject area readiness benchmarks on the ACT or equivalent score on the SAT will graduate with honors. The student's GPA is not considered.

REQUIRED CORE SUBJECTS

Core subject area courses will be year-long and will generate one credit each. Elective courses will be semester-long but will also generate a full credit. Ninth graders, therefore, have the opportunity to earn 8 credits during the course of the year. The Freshman Focus course is a non-credit advisory course required for all ninth graders.

END OF COURSE EXAMS

End-of-Course (EOC) exams in Algebra I, Biology I, and English I are state mandated and count 15% of the final grade for the course. The State Board of Education will determine the passing scores for these exams. A final teacher-made exam is also given in these classes and counts 5% of the final grade for the course.

COURSE WEIGHTING

Unweighted GPAs are reported on transcripts for all 9-12 grade students enrolled in said courses. The following scale is used to determine all GPAs.

TENNESSEE UNIFORM GRADING SYSTEM

<u>Letter Grade</u>	<u>Numeric Grade</u>	<u>Standard GPA Points</u>
A	93-100	4
B	85-92	3
C	75-84	2
D	70-74	1
F	Below 70	0

COURSE WEIGHTING

Unweighted GPAs are reported on transcripts for all 9-12 grade students enrolled in said courses. The following scale is used to determine all GPAs.

Quality Points

Numerical Grade	100-93	85-92	75-84	70-74	Below 70
Regular Course (unweighted)	4.0	3.0	2.0	1.0	0
Honors Course (weighted)	4.5	3.5	2.5	1.5	0
Advanced Placement	5.0	4.0	3.0	2.0	0

To allow for weighting of honors and advanced courses, local education agencies must annually adopt honors courses, technical courses that offer industry certification, Advanced Placement courses with end-of-course exams, and International Baccalaureate courses with end-of-course exams. The weighting of honors and advanced courses will be accomplished through the addition of points to grades to calculate the semester average.

Uniform Grading System

Weighting for Honors Courses and National Industry Certification may include the addition of 3 percentage points to the grades used to calculate the semester average.

Weighting for Advanced Placement and International Baccalaureate Courses may include the addition of 5 percentage points to the grades used to calculate the semester average.

<u>Range</u>
A (93-100)
B (85-92)
C (75-84)
D (70-74)
F (0-69)

**The following are weighted courses pending board approval:
(List is subject to change from year to year as
courses are added and eliminated)**

Honors English I
Honors English II
Honors English III
Honors English IV
Honors Calculus
Algebra/Trig
Probability and Statistics
Honors Algebra I
Honors Algebra II
Honors Geometry
Honors Pre-Calculus

Latin III/IV
French III/IV
Spanish III/IV
Honors World History
Honors US History

Emergency Medical Services Honors
Honors Health Science Ed
Clinical Internship
Nursing Education
Health Science Anatomy & Physiology
Medical Therapeutics

Honors Biology I
Honors Chemistry I
Honors Chemistry II
Honors Biology II

Honors Physics
AP Courses
Honors Psychology
WB Singers
Dual Enrollment Courses

Framework of Standards for Honors Courses

Honors courses will substantially exceed the content standards, learning expectations, and performance indicators approved by the State Board of Education. Teachers of honors courses will model instructional approaches, i.e. independent study, self-directed research and learning, and the appropriate use of technology that facilitate maximum interchange of ideas among students. All honors courses must include multiple assessments exemplifying coursework, such as short answer, constructed response prompts, performance-based tasks, open-ended questions, essays, original or creative interpretations, authentic products, portfolios, and analytical writing. Additionally, an honors course shall include a minimum of 5 of the following components:

1. Extended reading assignments that connect with specified curriculum.
2. Research-based writing assignments that address and extend the course curriculum.
3. Projects that apply course curriculum to relevant or real-world situations. These may include oral presentations, power point, or other modes of sharing findings. Connection of the project to the community is encouraged.
4. Open-ended investigations in which the student selects the questions and designs the research.
5. Writing assignments that demonstrate a variety of modes, purposes, and styles.
 - A. Examples of mode include narrative, descriptive, persuasive, expository, and expressive.
 - B. Examples of purpose include to inform, to entertain, and to persuade.
 - C. Examples of style include formal, informal, literary, analytical, and technical.
6. Integration of appropriate technology into the course of study.
7. Deeper exploration of the culture, values, and history of discipline.
8. Extensive opportunities for problem-solving experiences through imagination, critical analysis, and application.
9. Job-shadowing experiences with presentation, which connect class study to the world of work.

All course types that meet the above framework will be classified as honors, thereby constituting eligibility for additional percentage point weighting (pending annual board approval).

Technical courses that offer a national Industry Certification through a nationally recognized examination may be weighted by adding 3 points to all grades used to calculate the semester average (pending annual board approval).

Students transferring to Blount County Schools must show documentation of course weighting on the official transcript from the previous school. Weighted course credit is accepted (with documentation from previous system) for courses in grades 9-12 only. Students transferring from other systems do not automatically receive weighted credit based on the local district list, nor do students automatically receive weighted credit for courses taken elsewhere that are not available to district students unless the weighted points are documented on the transcript. When transfer records show only letter grades, GPAs are calculated using the Blount County scale.

Weighted GPAs are used to determine valedictorian and salutatorian. If there is a tie for either, the raw numerical average is used to determine each. If there is less than one-tenth of a point separating the scores, all students qualifying will be named.

COURSE DESCRIPTIONS

The courses may be offered for fall term, spring term, both fall and spring terms, or alternate years depending on enrollment requests. The grade level indicated is the recommended grade in which a course should be taken. However, individual student needs will be taken into consideration, and students may take courses at other grade levels than those indicated.

DUAL ENROLLMENT COURSES

Dual Enrollment courses offer students the opportunity to take college level courses while still enrolled in high school. Interested students should make an appointment with the counselor for additional information on these courses or possible additional course listings.

Students eligible to participate in the Tennessee Dual Enrollment Grant program may receive up to \$600 per award year (\$300 per semester), paid at the rate of \$100 per postsecondary semester/term credit hour. This grant is subject to the availability of funding and shall be applied only toward college tuition. Other college costs not covered by this grant are the responsibility of the student.

ENGL 1010 and 1020

College English Composition I English IV
Dual Enrollment Pellissippi State
3 hrs college credit per class
1 high school credit per class
12th grade

P Prerequisite: 3.0 GPA and an ACT score of 18 on English and 19 on Reading sub-sections.

This course consists of the study and practice of expository and persuasive writing. Topics include critical reading and writing essays, with emphasis on research, writing processes and effective formatting. Both English 1010 and English 1020 must be passed to receive the English IV high school credit for graduation.

Formatted: Centered

Formatted: Centered, Indent: Left: 0"

Formatted: None

Formatted: Justified, None

EMT 109/5522H

Emergency Medical Services

3 hrs college credit

11, 12

Dual Enrollment Roane State

1 high school credit

Prerequisite: Health Science Education, 3.0 GPA

Emergency Medical Service (EMS) is offered as a dual enrollment course with Roane State community College. This is the initial training course in the art of pre-hospital emergency medical care that follows the guidelines set by the Department of Transportation (D.O.T.). First Responders are individuals trained to assess patients, use AED's, provide emergency care, and move patients without causing injury. Students will receive a high school credit, as well as three hours of college credit in emergency Medical Technology. Upon successful completion of this course, students will be eligible to certify as First Responders by taking the state licensure exam given by the Department of Health, Division of emergency Medical Services. Students must be a junior or senior, 17 years of age or older, and have a GPA of 3.0 or greater. This course offers a National Industry Certification through a nationally recognized examination and may be eligible for additional percentage point weighting. (Refer to grade weighting section of the Curriculum Guide.)

Formatted: Font: Bold

Formatted: Font: Bold

Formatted: Border: Top: (No border), Bottom: (No border), Left: (No border), Right: (No border), Between : (No border), Bar : (No border)

Formatted: Font: Arial, 12 pt

Formatted: Font: Arial, 12 pt

Formatted: Font: 12 pt, Not Bold

Formatted: Indent: Left: 0"

Formatted: Indent: Left: 0"

Formatted: Indent: Left: 0", Right: 0"

ENGLISH

Recommendation: Students should ideally take all English courses in sequence; however, limited other options are available on a case-by-case basis.

The English Department strives to meet the needs of all students by offering a wide range of courses. All students will pursue a focused program of study that will prepare them for academic and career success.

English Course Sequencing

	Option 1	Option 2	Option 3
9	English I	Univ. English I	Honors English I
10	English II	Univ. English II	Honors English II
11	English III	Univ. English III	Honors English III
12	English IV	Univ. English IV or Dual Enrollment English	AP English IV or Dual Enrollment English

*See the Dual Enrollment section for details on Dual Enrollment English.

Option 1: This level is designed for students who need extra emphasis on reading, vocabulary, language, and language mechanics skills. Specifically, it is designed for those who have non-mastery and/or partial mastery of performance objectives on the End-of-Course exam.

Option 2: This level is designed for students who are functioning on grade level and have partial mastery or mastery scores in reading, vocabulary, language, and language mechanics skills. The curriculum offers opportunities to polish skills as defined in the College Board's Academic Preparation for College. Test scores, as well as teacher recommendations, will be considered for placement.

Option 3: This level is designed for students who are functioning above grade level with exceptional skills and have mastery scores in reading, vocabulary, language, and language mechanics. Test scores, as well as teacher recommendations, will be considered for placement. Summer reading is required. (See course description.)

ENGLISH DEPARTMENT COURSE DESCRIPTIONS

3001 English I Year-long 1 credit 9

This course is designed to meet Common Core state standards in reading, writing, speaking, listening, and language. The focus of this course is on helping students who have scores Basic or Below on standardized performance objectives. Some research is required. High-quality literature and informational texts will be stressed to help students reach proficiency levels on the PARCC and PBA Assessments.

3001U English I University-Academy Only Year-long 1 credit 9

This course is designed to meet the Common Core state standards in reading, writing, speaking, listening, and language. Students habitually perform the critical reading necessary to pick carefully through the amount of information available today in print and digital formats. Emphasis in this class will be on high-quality literature, informational texts, and research. Students in University English are expected to have scored Proficient on previous standardized performances objectives to maintain proficiency on the PARCC and PBA Assessments.

3001H English I Honors-Academy Only Year-long 1 credit 9

This course is taught at a rapid pace and is designed to meet the Common Core state standards in reading, writing, speaking, listening, and language. It is recommended for those who have scored Advanced on all state performance objectives. Research skills and oral presentations are stressed. High-quality literature and informational texts will also be stressed to help students maintain advanced levels on the PARCC and PBA Assessments. Students who fail to turn in summer reading assignments are given a two-week grace period with a **D** as the highest possible grade on the assignment. This course meets the framework requirements to be designated an honors class and is eligible for the additional percentage point weighting.

3081/3002 English II Year-Long 2 terms, 2 credits 10

This course is designed to meet Common Core state standards in reading, writing, speaking, listening, and language. This focus of this course is on helping students who have scored Basic or Below Basic on standardized performance objectives. Basic library research is taught. High-quality literature and informational texts will be stressed to help students reach proficiency levels on the PARCC and PBA Assessments.

3081U/3002U English II University Year-Long 2 terms, 2 credits 10

This course is designed to meet Common Core state standards in reading, writing, speaking, listening, and language. Students habitually perform the critical reading necessary to pick carefully through the amount of information available today in print and digital formats. The emphasis in this course will be on high-quality literature and informational texts, as well as writing in the narrative, argumentative, and expository modes. Students are expected to maintain proficiency levels on the PARCC and PBA Assessments.

3081H/3002H English II Honors Year-Long 2 terms, 2 credits 10

This course is taught at an accelerated pace and is designed to meet Common Core state standards in reading, writing, speaking, listening, and language. Students should be highly motivated and capable of analyzing high-quality literature and informational texts. A number of writings (narrative, argumentative, expository, and research) are required. Participation in this program is based on exceptional skills demonstrated in language arts and Advanced scores on previous standardized performance objectives. Students are required to complete summer reading assignments, which are due on the first day of school. Students who fail to turn in summer assignments on time are given a two-week grace period with a **D** as the highest possible grade on the assignment. Failure to adhere to this policy results in dismissal from the honors program. *This course meets the state framework requirements to be designated an honors class and is eligible for the additional percentage point weighting. (Refer to pages 5 and 6 of the Curriculum Guide.)*

3081A/3003 English III Year-Long 2 terms, 2 credits 11

This course is designed to meet Common Core state standards in reading, writing, speaking, listening, and language. The focus is on helping students who have scored Basic or Below Basic on standardized performance objectives. Basic library research is taught. High-quality American literature and informational texts will be stressed to help students reach proficiency levels on the PARCC and PBA Assessments.

3081AU/3003U English III University Year-Long 2 terms, 2 credits 11

This course is designed to meet Common Core state standards in reading, writing, speaking, listening, and language. Students habitually perform the critical reading necessary to pick carefully

through the amount of information available today in print and digital formats. The emphasis in this course will be on high-quality American literature and informational texts, as well as research and writing in the narrative, argumentative, and expository modes. Students are expected to reach proficiency levels on the PARCC and PBA Assessments.

3081AH/3003H English III Honors Year-Long 2 terms, 2 credits 11

This course is taught at a rapid pace and is designed to meet Common Core state standards in reading, writing, speaking, listening, and language. Students should be highly motivated and capable of analyzing high-quality literature and informational texts. A number of writings (narrative, argumentative, expository, and research) are required. Participation in this program is based on exceptional skills demonstrated in language arts and Advanced scores on previous standardized performance objectives. Students are required to complete summer reading assignments, which are due on the first day of school. Students who fail to turn in summer assignments on time are given a two-week grace period with a **D** as the highest possible grade on the assignment. Failure to adhere to this policy results in dismissal from the honors program.

This course meets the state framework requirements to be designated an honors class and is eligible for the additional percentage point weighting. (Refer to pages 5 and 6 of the Curriculum Guide.)

3005 English IV 1 term - 1 credit 12

Grade-level skills introduced in English III are continued and refined to meet requirements of the state curriculum strands. Students read moderate-level British literature and complete Daily Oral Language. Text-based vocabulary is emphasized. Writing of varied lengths is required.

3005U English IV University 1 term - 1 credit 12

This course uses British literature as a springboard for literary analysis and formal oral communication. It continues skills stressed in English III Univ. with more in-depth practice of writing and documenting papers related to literature.

3005HP/3014AP Advanced Placement English IV Literature & Composition

Year-Long 2 terms, 2 credits 12

Note: Students MUST enroll in AP English both 1st term and 2nd term (a full-year commitment). The first term receives honors points consideration towards the GPA while the spring section of AP awards the official AP points towards the GPA. It is also expected that students take the AP Exam in May. Students can earn credit and/or placement at most colleges and universities in the United States through qualifying AP Exam scores. There is a required examination fee for the course.

Recommendation: Students should have a 25 or higher on the ACT English sub-score.

The AP English Literature and Composition course is designed to engage students in the careful reading and critical analysis of imaginative literature. Students will read works from several genres and periods, paying careful attention to both textual detail and historical context. Critical written

analysis of literature will include expository, analytical, and argumentative essays, as well as research and timed writings. Additionally, emphasis will be placed on helping students develop stylistic maturity, vocabulary, sentence structures, logical organization, and effective use of rhetoric.* Students will complete two Independent Studies during the year. All who enroll are required to complete summer reading assignments, which are due at the beginning of fall term.

This course meets the state framework requirements to be designated an honors class and is eligible for the additional percentage point weighting. (Refer to pages 5 and 6 of the Curriculum Guide.)

*Copied from www.collegeboard.com

ENGLISH ELECTIVES

(See Fine Arts for drama.)

3081N Content Area Reading-Academy Only 1 term - 1 credit 9

This course is designed to provide reading strategies that will improve comprehension in all curricular areas. Students will utilize a variety of texts to practice life-long learning skills for reading, writing, understanding, and interpreting content in English, math, science, and social studies.

3013N Competency English-Academy Only 1 term - 1 credit 9

In addition to the required English I course, Competency English provides an opportunity to gain further grounding in grammar, sentence structure, and writing skills. Curriculum standards include parts of speech, sentence structure, and the components of an essay.

9350ACT ACT Preparation 9 weeks – 1/2 credit 11, 12

This class must be taken in conjunction with 9350 ACT.

This course is designed for college and university-bound students who want to improve their test scores on the ACT test, the required entrance examination for the majority of colleges and universities. It is recommended that seniors take this course during the fall semester in preparation for the October and December dates for the ACT, and juniors take this course during the second semester in preparation for the April and June dates for the ACT.

A review of English grammar and usage, the primary component of the English portion of the ACT, will be included, as well as test-taking strategies and tips. Students will learn how to increase their reading comprehension for the reading and science portions of the test.

In the math portion, students will receive a thorough review of basic math concepts needed for the ACT. They will practice these and learn test taking strategies with practice tests and quizzes. Science will concentrate on studying and interpreting data. Grades will be determined by the student's participation in class and the improvement shown by the student's ACT performance.

English Peer Teaching (Invitation-only course)

Stringent selection criteria are used to determine participant eligibility. Once selected, students must attend after-school training sessions at the beginning of the term. Then, they are assigned to a supervising teacher's classroom to provide additional academic support to underclassmen and to help motivate students with low self-confidence and to give one-on-one tutoring. No student may earn more than two peer teaching credits per school year; therefore, those students invited to peer teach in multiple curriculum areas may not register for more than two peer teaching classes.

3097L Information and Library Science

1 term - 1 credit

11, 12

Prerequisite: Librarian interview only

Information and Library Science is designed to teach students how to manage and retrieve information. Daily tasks include, but are not limited to, working at the circulation desk, working with media, organizing materials, designing and completing displays, and planning and implementing library activities. Each student is required to read two fiction books and complete two book talks for the semester.

Yearbook Publishing I/II (Teacher approval required)

1 term - 1 credit

10, 11, 12

Prerequisite: English I (with a grade of A or B), teacher recommendation, and approval of yearbook sponsor. Applications are available from yearbook sponsor. Once accepted for the course, students will be given the course code for registration.

This hands-on class is designed to teach students the components of yearbook production. Coursework will include the fundamentals of journalism, organization, graphic design, editing, publishing, layout, copy writing, marketing, and sales. Because students will rely on computers and software applications, basic computer skills are expected. The end product will be the William Blount High School Governor. The course requires after-school meetings and attendance at extra-curricular functions.

FINE ARTS DEPARTMENT COURSE DESCRIPTIONS

3501 Visual Art I: Fundamentals 1 term - 1 credit 10, 11, 12

Requirement: Fee and fund raising. This is an introductory survey course for students desiring a fine arts credit. The curriculum studied integrates art history, and emphasizes design elements and principles. A variety of media is explored with attention to fundamental skills and techniques. Two-dimensional (drawing, painting) and three-dimensional (sculpture, ceramic, textile) formats are included.

3502 Advanced Visual Art II 1 term - 1 credit 10, 11, 12

Prerequisite: Visual Art I and teacher approval. Requirement: Fee and fundraising.

This elective class continues the same principles learned in Visual Art I, with projects becoming more individualized and somewhat more sophisticated. All students are encouraged to submit works for area exhibits. Art history is integrated into the curriculum. Students will develop a portfolio of their work.

3543 Advanced Visual Art III 1 term - 1 credit 10, 11, 12

Prerequisite: Art II and teacher approval. Requirement: Fee and fundraising.

Almost all work is on an individual basis, and each student is encouraged to exhibit as many works as possible in art competitions and/or community exhibits. This course is for highly motivated and focused, advanced art students who desire in- depth study methods and techniques in the media they are interested in. Students will develop a portfolio of their work.

3530M Band (Fall Semester) 1 term - 1 credit 9, 10, 11, 12

Prerequisite: Three years of middle-school band or by audition

Students will study, learn, and perform music in various styles. An emphasis will be made on reading and recognizing rhythms, major and minor scale patterns, and producing a characteristic sound. All performances and after-school rehearsals are required. A calendar of events will be given in May.

Requirements:

- WBHS two week summer band camp
- Fees or fundraising paid for uniforms, music, transportation, etc.
- Attendance at all rehearsals and performances
- Quality instrument or sticks/mallets (some larger instruments are available through the school - tuba, baritone, etc.)

Performances include:

- Pre-game and halftime of all varsity home football games and many away games.
- Marching band competitions in the southeast area.
- Veterans Program

- Sr. Band Clinic
- Christmas Parades
- Concerts
- Concert Competitions

3530S Band (Spring Semester)

1 term - 1 credit

9, 10, 11, 12

Prerequisite: Three years of middle school band or by audition.

Students will study, learn, and perform music in various styles. An emphasis will be made on reading and recognizing rhythms, major and minor scale patterns, and producing a characteristic sound. All performances and after-school rehearsals are required. A calendar of events will be given in May.

Requirements:

- Quality instrument or sticks/mallets (some larger instruments are available through the school - tuba, baritone, etc.)
 - Attendance at all rehearsals and performances
 - Fees or fundraising paid for uniforms, music, transportation, etc.
- Performances include:
- Winter and Spring Concerts
 - Sr. Band Clinic
 - Eighth Grade Recruiting Concerts
 - Concert Festival/Competition
 - All-State Band
 - Graduation

3520 Theatre Arts I: Introduction to Theatre

1 term - 1 credit

10, 11, 12

This course is an overview and audition for theatre art and its disciplines, including acting, play production, playwriting, and basic background and history. This is a highly active, participatory course that involves acting/speaking. It will emphasize the basic principles of speech delivery, acting and stage techniques. Students will be expected to participate in writing/performing monologues, acting scenes, improvisations, and pantomime, as well as read a play and critique live performances. Attendance at class productions is mandatory. In addition, fundraising is a requirement for all Theatre Arts classes. Students must be invited to continue in Advanced Theatre. Theatre I class is considered to be an audition for Advanced Theatre and students must have prior approval before acceptance into the Vagabond Player Troupe. Any transfer students must make specific arrangements by going through an interview process and providing letters of reference before being considered for Advanced Theatre. The teacher will evaluate various areas for acceptance into the Vagabond Troupe for all students.

3524 Advanced Theatre (Vagabond Troupe) 1 term - 1 credit 10, 11, 12

Prerequisite: Theatre Arts I with invitation to join the Vagabond Troupe AND audition with teacher approval OR theatre production experience AND audition with teacher approval.

This course is a production lab course, focusing on preparation for all “Vagabond Players Theatre Troupe” productions that take place in the Fall and Spring. Students will study various plays and playwrights. Students will be given the opportunity to compete for acting and technical scholarships. All students will be required to be involved in fundraising activities for the troupe. All students will be required to participate in the fall/spring productions. This includes after school rehearsals, Saturday rehearsals and final performances. Teacher approval is based on a successful audition from Theatre I and show auditions. This course is a production lab course, focusing on preparation for a fine arts major/minor in postsecondary education. As a class, students will produce a play and consequently learn about all the elements of a production – from acting and technical, to marketing and budget.

3531 Beginning Choir 1 term - 1 credit 9

Beginning choir is a mixed choral ensemble designed for entry-level performance. Students in this course focus on beginning vocal production, music theory, and history. This ensemble performs a variety of sacred and secular music from all the major periods of music history, as well as spirituals and lighter pieces with some choreography possible. This course is open to any student who considers him/herself a beginner in music knowledge.

Requirements:

- Fees and fundraising required for music, transportation, etc.
- Attendance at all performances and rehearsals
- Purchase of minimal choral performance attire

3531W/3531WSP William Blount Singers Honors 2 terms, 2 credits 10, 11, 12

Prerequisite: By audition only. Students must take both fall and spring Semesters.

This choir represents a highly select choral ensemble composed of 24 members. This ensemble has many performances locally, as well as in-state and out -of-state performances. Emphasis is on advanced musical skills relative to vocal technique and music reading abilities. The Singers perform a wide variety of music, including chamber, madrigal, and show/pop music.

Requirements:

- Members must have some music reading ability, as well as choreographic skills.
- WBHS one week summer Singers camp
- Fees and fundraising required for music, transportation, etc.
- Attendance at all performances and rehearsals
- Purchase of choral performance attire

3531C/3531CSP Cadence Show Choir 2 terms, 2credits 10, 11, 12

Prerequisite: By audition only. Students must take both fall and spring Semesters.

This choir represents a highly selective women's choral ensemble with strong dance skills and vocal music talent. Emphasis is on performance of advanced musical and dance skills. Literature includes show/pop/jazz choir and chamber choir music.

Requirements:

- Fees and fundraising required for music, transportation, etc.
- Attendance at all performances and rehearsals
- Purchase of choral performance attire

3531OC Concert Choir 1 term - 1 credit 10, 11, 12

Concert Choir is a mixed choral ensemble of up to 60 voices. In addition to performing at an annual concert, the ensemble may also sing at all major choral festivals and competitions in the spring. The concert choir will perform a variety of challenging sacred and secular music from all the major periods of music history, as well as spirituals and lighter pieces. Members of the Concert Choir are not required to audition. However, basic music knowledge and experience in ensemble singing is helpful. This choir is open to anyone who wishes to participate.

Requirements:

- Fee and fundraising required for music, transportation, etc.
- Attendance at all performances and rehearsals
- Purchase of minimal choral performance attire

FOREIGN LANGUAGE DEPARTMENT COURSE DESCRIPTIONS

Most students elect to begin a modern language in their tenth, eleventh grade year. When making their four-year plans, students should remember that they may be required to take a foreign language placement exam during their college freshman orientation week.

Foreign languages are not available to freshmen. Because Latin grammar and vocabulary are the basis for Romance Languages such as Spanish and French, students completing Latin I may also decide to take levels I and II of Spanish or French to complete and exceed their college entrance requirement.

3041 French I Year-Long 2 terms - 1 credit 10, 11, 12

In this modern language course, students learn to understand, speak, read, and write French. In addition, students learn about life in France and other French-speaking countries.

3041T French I Term 1 term - 1 credit 10, 11, 12

In this fast –paced, accelerated modern language course, students learn to understand, speak, read, and write in French. In addition, students learn about life in France and other French-speaking countries. Since the curriculum is covered in 18 weeks instead of 36, only students who have been successful in honors English classes or who are repeating French I should consider this course. **This course is not honors and does not receive weighted GPA points.**

3042 French II 1 term - 1 credit 10, 11, 12

Prerequisite: Students must pass French I before taking the second level. Recommendation: Students are encouraged to achieve no lower than an 80 average in French I to ensure success in French II.

In this modern language course, students continue to learn and master the skills introduced in French I with greater emphasis on grammar, composition, French life, and culture.

3047 French III-IV 1 term - 1 credit 11, 12

Prerequisite: Students must pass French II before taking French III/IV.

By studying various aspects of French life, students expand their communication and reading skills and increase their awareness of the French-speaking people of the world and their contributions to the arts, sciences, and history. In addition, students will increase their knowledge of France and other countries in which French is spoken. This course meets the state framework requirements to be designated an honors class and is eligible for the additional percentage point weighting. Refer to the section of the Curriculum Guide regarding grade weighting.

3031 Latin I Year-Long 2 terms - 1 credit 10, 11, 12

This classical language course introduces students to Latin grammar and the translation of Latin prose. Students learn vocabulary and grammatical forms that have influenced the English language and are the basis for the Romance languages. English word derivation is stressed.

3031T Latin I Term 1 term - 1 credit 10, 11, 12

This classical language course introduces students to Latin grammar and the translation of Latin prose. Students learn vocabulary and grammatical forms that have influenced the English language and are the basis for the Romance languages. English word derivation is stressed. This course

moves at a faster pace than year-long Latin I but covers all grammatical constructions taught in the year-long course. **This course is not honors and does not receive weighted GPA points.**

3032 Latin II 1 term - 1 credit 10, 11, 12

Prerequisite: Students must pass Latin I.

Recommendation: Students are encouraged to achieve no lower than an 80 average in Latin I.

Students continue the study of Latin grammatical forms and the translation of prose. All grammatical constructions are introduced by the end of the second year.

3037 Latin III-IV 1 term - 1 credit 11, 12

Prerequisite: Students must pass Latin II before taking Latin III. Recommendation: Students are encouraged to have achieved no lower than an 80 average in Latin II. The third year of classical language offers intermediate level study, which consists of translation of ancient classical authors. This course meets the state framework requirements to be designated an honors class and is eligible for the additional percentage point weighting. Refer to the section of the Curriculum Guide regarding grade weighting.

3021 Spanish I Year-Long 2 terms - 1 credit 10, 11, 12

Students in this modern language course are introduced to vocabulary and grammar necessary for understanding, speaking, and writing Spanish. The cultures of Mexico, Central America, and South America are also presented.

3022 Spanish II 1 term - 1 credit 10, 11, 12

Prerequisite: Students must pass Spanish I before taking the second level. Recommendation: Students are encouraged to achieve no lower than an 80 average in Spanish I to ensure success in Spanish II.

Students continue to master and enhance the communication skills introduced in Level 1. With increased emphasis on speaking and writing, Spanish II is a grammar intensive course that will provide greater opportunity for creativity and originality of expression. Customs, history, and geography of Spain and Latin America are reinforced.

3027 Spanish III-IV 1 term - 1 credit 11, 12

Prerequisite: Students must fulfill two of three requirements for taking Level III/IV Spanish: 1) Score 85 or above in Spanish II; 2) Have teacher recommendation; 3) Score 80 or higher on Level III entrance exam. By studying specific aspects of daily Hispanic life, students must learn to create with

the language, participate in progressively more challenging conversations, and communicate successfully in basic survival situations. This course meets the state framework requirements to be designated an honors class and is eligible for the additional percentage point weighting. Refer to the section of the Curriculum Guide regarding grade weighting.

Foreign Language Peer Teaching (Invitation-only course)

Stringent selection criteria are used to determine participant eligibility. Once selected, students must attend after-school training sessions at the beginning of the term. Then, they are assigned to a supervising teacher's classroom to provide additional academic support to underclassmen and to help motivate students with low self-confidence and to give one-on-one tutoring. No student may earn more than two peer teaching credits per school year; therefore, those students invited to peer teach in multiple curriculum areas may not register for more than two peer teaching classes.

MATHEMATICS DEPARTMENT COURSE DESCRIPTIONS

Tennessee State law requires students entering high school in 2009 and after to take a math course each year enrolled, thereby earning four math credits which must include Algebra I, Geometry, and Algebra II, and a higher level math.

The Mathematics Department strives to meet the needs of all students by offering a wide range of courses. Because of the diversity of offerings and because mathematics skills are progressively developed and reinforced, a table of possible course sequences follows. The table below shows several options from which students may choose.

Option 1 - Algebra I, Algebra IIA/B, Geometry, Bridge Math

Option 2 - University Algebra I, University Algebra II A/B, Geometry, Advanced Algebra/Trig or Probability & Statistics or Bridge Math

Options 3 - Honors Algebra I, Honors Algebra II A/B, Honors Geometry, Pre-Calculus or Probability& Statistics

Option 4 - Honors Geometry, Honors AlgebraII A/B, Pre-Calculus and/or Probability& Statistics, Calculus and /or Probability& Statistics
Students will take an End of Course Exam in Algebra I and Algebra II.

Some math courses span both semesters. Students enrolled in a year-long class at the academy receive one credit after successfully completing the entire course. Students enrolled in a year-long class at the main campus must take both semesters and will receive a math elective credit for successfully completing the first semester's work and a required math credit for successfully completing the second semester's work.

3102NB Algebra I – Academy Only Year-long 1 credit 9

Algebra I is a course that develops the building blocks needed for success in higher level math classes. The course satisfies the state Algebra I credit for graduation and focuses on those skills needed for the Algebra I PARCC Exam.

After successful completion, students will take Algebra II.

3102NU Algebra I University – Academy Only Year-long 1 credit 9

Algebra I is the entrance course for all upper-level mathematics courses, and develops the building blocks needed for math classes required for university entrance, as well as preparing students for the Algebra I PARCC Exam.

After successful completion, students will take University Algebra II.

3102NH Honors Algebra I – Academy Only Year-long 1 credit 9

Prerequisite: Teacher recommendation, TVAAS & EXPLORE scores, and/or eighth-grade Algebra.

Honors Algebra I is an entrance course for all advanced mathematics courses and should be taken by incoming ninth graders who score above grade level on achievement exams. This class covers all the basic topics in regular Algebra I but in more depth and at a much faster pace while preparing students for the Algebra I PARCC exam. *This course meets the state framework requirements to be designated an honors class and is eligible for the additional percentage point weighting.*

After successful completion, this group is expected to take Honors Algebra II.

3108NH Honors Geometry – Academy Only Year-long 1 credit 9

This is a fast-paced course with an in-depth study of all the topics covered in a regular geometry class plus many additional topics. After successful completion, students will then advance to Honors Algebra II A/B. This course meets the state framework requirements to be designated an honors class and is eligible for the additional percentage point weighting. Refer to the section of the Curriculum Guide regarding grade weighting.

31023B/31024B Algebra IA/Algebra I B 2 terms, 2 credits 10, 11,12

Algebra IA/ Algebra IB is a year-long course designed for at-risk students who need extra help with mathematical concepts. This course satisfies the state Algebra I credit for graduation, and focuses directly on those skills needed for the Algebra I PARCC exam given in May. This class will give students one elective math credit for Algebra IA and a math credit toward math graduation requirements for Algebra IB. After successful completion, students will take either Geometry or Algebra IIA/Algebra IIB.

31033B/31034B Algebra II A/Algebra II B

2 terms, 2 credits

9, 10, 11, 12

Prerequisite: Students must have previously taken Algebra I.

Algebra II A/Algebra IIB will cover all of the standards required by the state for Algebra II and will cover most of the topics covered in the University Algebra II, such as logarithms, complex numbers, conic sections, and inequalities. This class will move at a slower pace to prepare students who need extra help with math concepts. It will also incorporate the use of graphing calculator (available for use in the classroom). This class will give students one elective math credit for Algebra IIA and a math credit toward math graduation requirements for Algebra II B and will prepare them for the Algebra II PARCC exam.

After successful completion, students will take Geometry.

31033U/31034U**University Algebra II A/University Algebra II B**

2 terms, 2 credit

10, 11, 12

Prerequisite: Students must have previously passed University Algebra I B with an overall average of 85 or above. Students with less than an 85 average should enroll in Algebra II A/Algebra II B.

University Algebra II is an in-depth continuation of the University Algebra I concepts, as well as a study of logarithms, complex numbers, conic sections, and upper level inequalities. This course initiates the development of the concepts and skills needed for ACT and SAT testing. The course is a year-long class due to the increased standards to prepare students for the Algebra II PARCC exam.

After successful completion, students will advance to Geometry

Honors Algebra II – Academy Only year-long,**1*****Prerequisite: Teacher recommendation, TVAAS & EXPLORE scores, and/or eighth-grade Algebra.***

This course is designed for students who have completed Honors Algebra I in 8th grade and is to be taken year-long. This is a fast-paced course, including an in-depth study of all topics in University Algebra II with special emphasis on additional topics as well as preparing students for the Algebra II PARCC exam. *This course meets the state framework requirements to be designated an honors class and is eligible for the additional percentage point weighting. (Refer to pages 7 and 8 of the Curriculum Guide)*

After successful completion, this group is expected to take Honors Geometry.

31033H/31034H Honors Algebra II A/Honors Algebra II B

2 terms, 2 credits 10, 11

Prerequisite: Completion of Honors Algebra I

This course is designed for students who have completed Honors Algebra I and is to be taken year-long. This is a fast-paced course, including an in-depth study of all topics in Honors Algebra I plus the study of logarithms, complex numbers, conic sections, and upper level inequalities to prepare

students for the Algebra II PARCC exam. As an honors course, there is special emphasis on additional topics as well which prepares students for ACT and SAT testing and Honors Pre-Calculus. *This course meets the state framework requirements to be designated an honors class and is eligible for the additional percentage point weighting. (Refer to pages 7 and 8 of the Curriculum Guide)*

After successful completion, students will take Honors Geometry.

3108B Geometry 1 term -1 credit 10, 11,12

Prerequisite: *Algebra II or teacher recommendation from University Algebra II.*

Geometry consists of topics in plane and solid geometry with emphasis on definitions, postulates, and theorems. This course is designed for students who need additional help with mathematical concepts as well as preparing students for the Geometry PARCC exam.

After successful completion, students will take Bridge.

3108 University Geometry 1 term - 1 credit 10, 11,12

Prerequisite: *University Algebra II*

University Geometry consists of topics in plane and solid geometry with emphasis on definitions, postulates, theorems, and inductive and deductive proofs. This course will prepare the student for the Geometry PARCC exam as well as the ACT.

After successful completion, students will either take Bridge or Algebra/Trig depending on ACT scores & Algebra II final averages (See the chart for specifics).

3108H Honors Geometry 1 term - 1 credit 10

Prerequisite: *Honors Algebra II or teacher recommendation.*

Honors Geometry is a fast-paced course with an in-depth study of topics in plane and solid geometry with emphasis on definitions, postulates, theorems, and inductive and deductive proofs. Greater importance is placed on formal proofs and creative applications. This course will prepare the student for the Geometry PARCC exam as well as the ACT. *This course meets the state framework requirements to be designated an honors class and is eligible for the additional percentage point weighting. (Refer to pages 7 and 8 of the Curriculum Guide.)*

After successful completion, students will take Pre-Calculus.

3124 Trigonometry 1 term - 1 credit 11, 12

Prerequisite: *Students scoring ≥ 19 on math portion of ACT and scoring ≥ 85 in University Algebra II.*

University Algebra Trigonometry is a continuation of algebraic concepts with a more in-depth study of circular functions and trigonometric functions as well as analytical geometry. This course fulfills the trigonometry requirement for the Tennessee Board of Regents Schools.

3135H Honors Probability and Statistics 1 term - 1 credit 11,12

Prerequisite: *minimum – scoring ≥ 90 in University Algebra II & University Geometry.*

Concepts covered in the statistical portion of the course will be the uses and abuses of statistics, statistical graphs, types of averages, standard deviation, and normal curves. The probability section will include factorials, combinations, and permutations. Application problems will relate to a variety of career opportunities, including business, engineering, agriculture, computer science, and many others. *This course meets the state framework requirements to be designated an honors class and is eligible for the additional percentage point weighting. (Refer to pages 7 and 8 of the Curriculum Guide.)*

3126H Honors Pre-Calculus 1 term - 1 credit 11, 12

Prerequisite: *Honors Algebra II and Honors Geometry or teacher recommendation.*

Honors Pre-Calculus is a continuation of algebraic concepts with the addition of vectors, circular functions, and trigonometric functions as well as analytical geometry. This course fulfills the trigonometry requirement for the Tennessee Board of Regents Schools. *This course meets the state framework requirements to be designated an honors class and is eligible for the additional percentage point weighting. (Refer to pages 7 and 8 of the Curriculum Guide.)*

3113H Honors Calculus 1 term - 1 credit 12

Prerequisite: *Pre-Calculus or University Algebra/Trigonometry with teacher recommendation and minimum average of 85.*

Calculus develops the concepts of limits, differentiation, and integration, as well as their applications in relation to the science, business, math, computer or health-related fields. Calculus is especially designed for students who plan to take college calculus since it covers approximately one and one-half semesters of work at the college level. *This course meets the state framework requirements to be designated an honors class and is eligible for the additional percentage point weighting. (Refer to pages 7 and 8 of the Curriculum Guide)*

3127AP/3128AP AP Calculus AB/BC 2 terms, 2 credits 12

Prerequisite: *Pre-Calculus*

Note: Students MUST enroll in AP Calculus both 1st term and 2nd term (a full-year commitment). AP Calculus is an advanced study of college calculus. Students will learn limits, differentiation, applications of differentiation, integration, applications of differentiation, and transcendental. The course is designed to not only allow for the opportunity for college credit but also to provide the rigor and concepts necessary to compete with the elite students at the next level. It is also expected that students take the AP Exam in May. Students can earn credit and/or placement at most colleges and

universities in the United States through qualifying AP Exam scores. There is a required examination fee for the course. This course meets the state framework requirements to be designated an honors class and is eligible for the additional percentage point weighting. (Refer to pages 7 and 8 of the Curriculum Guide.)

3181 Bridge Math

1 term - 1 credit

12

Prerequisite: Students scoring <19 on math portion of ACT &/or scoring < 85 in Algebra II.

Bridge is a semester-long senior math course which applies concepts learned in algebra and geometry. Certain mathematical skills are required in order to prepare a student for college level mathematics courses or career technical training. These skills will be introduced in conjunction with appropriate mathematical concepts and related to previous learning. Technology will be used to strategically enhance the student's understanding of core concepts via the use of multiple problem solving strategies.

3199ACT ACT Preparation

9 weeks – 1/2 credit

11,12

This class must be taken in conjunction with 9350 ACT.

This course is designed for college and university-bound students who want to improve their math test scores on the ACT test, the required entrance examination for the majority of colleges and universities. It is recommended that seniors take this course during the fall semester in preparation for the October and December dates for the ACT, and juniors take this course during the second semester in preparation for the April and June dates for the ACT.

Math Peer Teaching (invitation-only course)

Stringent selection criteria are used to determine participant eligibility. Once selected, students must attend after-school training sessions at the beginning of the term. Then, they are assigned to a supervising teacher's classroom to provide additional academic support to underclassmen and to help motivate students with low self-confidence and to give one-on-one tutoring. No student may earn more than two peer teaching credits per school year; therefore, those students invited to peer teach in multiple curriculum areas may not register for more than two peer teaching classes.

AIR FORCE JROTC/AEROSPACE SCIENCE

The preferable course sequence is for students to take one class each academic year, after the completion of the freshman year. Freshman students must enroll in JROTC for both semesters in order for ROTC to count for wellness.

3331/3331 Aerospace Science I – Academy Only 2 terms, 2 credits 9

The course provides an overview of aerospace science and furthers the building of basic knowledge and skills to function in today's technical world. Studies include the history of flight, modern aerospace developments, attitude and discipline, study habits and time management, drug and alcohol abuse, first aid, health and wellness, and drill ceremonies. Field trips to military bases and museums, aircraft orientation flights, club activities, summer leadership camp, and other extracurricular activities add to classroom activities and are an important part of the program. The uniform is worn one day each week. Students must meet United States Air Force grooming standards while in uniform. Uniforms/textbooks are provided free of charge. The student is not an official member of the military and is not required to enter the military service as the result of being in AFJROTC. Successful completion of Intro to Aerospace Science and Aerospace Science I substitutes for one credit of Lifetime Wellness.

3332 Aerospace Science II 1 term -1 credit 10, 11, 12

Prerequisite: Aerospace Science I

This course helps students develop knowledge of the causes of weather, the effects of flight on the human body, aircraft flight, and air navigation. Leadership training is further developed to permit the student to function as part of the cadet staff and lead in co-curricular activities, such as parades and color guards. The program is supplemented by field trips to military bases and museums, club activities, summer leadership camp, drill team, color guard, and other extracurricular activities available to interested students. Physical fitness is incorporated into this program and is 20% of the overall grade. Successful completion of Aerospace Science II substitutes for ½ credit of Physical Education.

3333 Aerospace Science III 1 term - 1 credit 11, 12

Prerequisite: Aerospace Science II

This course provides an exploration of space and an introduction to astronomy. Students learn the history of astronomy, including introductory Newtonian astrophysics; the Earth's physical properties; the Moon's characteristics and effect on the Earth; and the make-up of the Solar System. Human relations, communications skills, logic and problem solving are further developed in the leadership phase. Field trips to military bases and museums, drill meets, summer leadership camp, and a variety of extracurricular activities supplement classroom work. Emphasis is given to participation in the cadet organization and competitive drills. Physical fitness is incorporated into this program and is

20% of the overall grade. Three credits in Aerospace Science fulfill the state graduation requirement for U.S. Government if the teacher is highly qualified under No Child Left Behind.

3334 Aerospace Science IV 1 term - 1 credit 12

Prerequisite: Aerospace Science III

This course of aerospace studies provides an emphasis upon developing the individual's knowledge of leadership and communicative skills. Academics include life success skills, including the Unlocking Your Potential series, the National Endowment for Financial Education Program, High School Financial Planning, and other management skills needed to lead a Corps of Cadets. Emphasis is placed on participating in the overall operation of the cadet organization and competitive drill as hands-on training. Field trips and a variety of co-curricular activities, planned and carried out by the students, are important parts of the course. Physical fitness is incorporated into this program and is 20% of the overall grade.

3334A Aerospace Science V 1 term - 1 credit 12

Prerequisite: Aerospace Science III and IV and prior approval from the instructors.

The course is an advanced program in aerospace studies with continued emphasis on developing leadership and management skills of senior students. Academic concentration is on the management and leadership skills inherent in all leadership roles, both military and civilian. The students are provided with active supervision by the instructors, the students are provided hands-on experience for the operation of all the AFJROTC Cadet Corps activities. Physical fitness is incorporated into this program and is 20% of the overall grade.

SCIENCE DEPARTMENT COURSE DESCRIPTIONS

The Science Department offers an array of courses designed to fit the needs of all students.

Three units of science are required for graduation. One unit must be biology, and one unit must be either chemistry or physics.

Sequence 1- Basic Biology, Physical Science, Basic Physics

Sequence 2- Biology, Physical Science, Chemistry 1 or Physics

Sequence 3- Biology I, Chemistry I, 3rd Science (Honors Biology II, AP Chemistry, Ecology, Honors Physics, or Honors Anatomy/Physiology)

Sequence 4- Biology I, Honors Chemistry I, 3rd Science (Honors Biology II, AP Chemistry, Honors Physics, or Honors Anatomy/Physiology)

3210N Biology I A/B – Academy Only Year-long, 2 credits 9

Biology is primarily an in-depth study of cells, interdependence, flow of matter and energy, heredity, and biodiversity and change. Students completing this course are required to take an End-of-Course Exam, which will count towards a percentage of the overall grade. The first half of the class, or portion A, may serve as a science requirement for students with an IEP but is a science elective ONLY for students without an IEP. The biology credit required for graduation is earned in the second half of the class, or the B portion.

3260 Environmental Science 1 term - 1 credit 10, 11, 12

Environmental science focuses on the interdependence between all living organisms and their environments. The impact of human beings on the environment is heavily emphasized in each unit covered. Some laboratory and fieldwork may be used to reinforce concepts learned in class.

3210 Biology I 1 term - 1 credit 9, 10, 11, 12

Biology I is primarily an in-depth study of genetics, microbiology, botany, zoology, and ecology. Students completing this course are required to take the End-of-Course exam.

3202 Physical Science 1 term -1 credit 10, 11, 12

Prerequisite: Biology 1 and Algebra 1 strongly recommended

Physical science is a study of matter, energy, mechanical forces, light, sound, electricity, and the laws of motion. This course is recommended for sophomores as preparation for completing either chemistry or physics their junior year.

3221 Chemistry I 1 term -1 credit 10, 11, 12

Prerequisite: Algebra I and Biology I

Chemistry is a science course structured for university-bound students who have successfully completed Biology I. Students are introduced to the properties and behavior of matter beginning with an in-depth study of atomic theory. Other focuses of study include chemical bonding, stoichiometry, phases of matter, solution chemistry, and chemical reactions. Laboratory observations are based on the principles and concepts learned in class.

3221H Honors Chemistry I 1 term - 1 credit 10, 11, 12

Prerequisite: Algebra I and Biology I

Chemistry is a science course structured for university-bound students who have successfully completed Biology I. Students are introduced to the properties and behavior of matter beginning with an in-depth study of atomic theory. Other focuses of study include chemical bonding, stoichiometry, phases of matter, solution chemistry, and chemical reactions. Laboratory observations are based on the principles and concepts learned in class. This course meets the state framework requirements to be designated an honors class and is eligible for the additional percentage point weighting. Refer to the section of the Curriculum Guide regarding grade weighting.

3216H Honors Biology II 1 term - 1 credit 10, 11, 12

Prerequisite: Biology I

Honors Biology II is structured for university-bound students. Honors Biology is an advanced level course that includes many biological topics, such as taxonomy, vertebrate and invertebrate zoology, and animal behavior. Students will participate in several lab activities as well as dissections. This course meets the state framework requirements to be designated an honors class and is eligible for the additional percentage point weighting. Refer to the section of the Curriculum Guide regarding grade weighting.

3224HP/3225AP AP Chemistry 1 term - 1 credit 11, 12

Prerequisite: Chemistry I and Algebra II

The AP Chemistry course is designed to be the equivalent of the general chemistry course usually taken during the first college year... Students in such a course should attain a depth of understanding of fundamentals and a reasonable competence in dealing with chemical problems . The course should contribute to the development of the students' abilities to think clearly and to express their ideas, orally and in writing, with clarity and logic .”
“The AP Chemistry course is designed to be taken only after the successful completion of a first course in high school chemistry. Surveys of students who take the AP Chemistry Exam indicate that the probability of achieving a score of 3 or higher is significantly greater for students who successfully complete a first course in high school chemistry prior to undertaking the AP course . Thus it is strongly recommended that credit in a first-year high school chemistry course be a prerequisite for enrollment in an AP Chemistry class. In addition, the recommended mathematics prerequisite for an AP Chemistry class is the successful completion of a second-year algebra course.”

3231 Basic Physics 1 term - 1 credit 11, 12

Prerequisite: Algebra I

Recommendation: Concurrent enrollment in or completion of Algebra II.

Physics is a science course designed to meet the third state science requirement for students not taking Chemistry I. Fields of study include statics, dynamics, thermodynamics, light, and electricity.

3231H Honors Physics 1 term - 1 credit 11, 12

Prerequisite: Algebra I and Algebra II

Recommendation: Concurrent enrollment in or completion of trigonometry.

Physics is an advanced science course for university-bound students. Fields of study include statics, dynamics, thermodynamics, light, and electricity. This course meets the state framework requirements to be designated an honors class and is eligible for the additional percentage point weighting. Refer to the section of the Curriculum Guide regarding grade weighting.

5516H Health Science Anatomy & Physiology 1 term - 1 credit 11, 12

Prerequisite for concentrators: Health Science Education, Diagnostic Medicine, Biology I
Prerequisite for science credit only: Biology I

Recommended: Chemistry I

In this course, students will examine human anatomy and physical functions. They will analyze descriptive results of abnormal physiology and evaluate clinical consequences. A working knowledge of medical terminology will be demonstrated. Students may take this course as one of the three needed to be a concentrator in Health Science, or they may take it for a science credit.

3255 Ecology 1 term - 1 credit 11, 12

Recommended prerequisites: physical science or environmental science; biology, chemistry

Ecology is a laboratory science course that enables students to develop an understanding of the natural and man-made environment and the environmental problems the world faces. Students explore ecological concepts through an inquiry approach. Embedded standards for Inquiry and Technology & Engineering are taught in the context of the content standards for Individuals, Populations, Communities, Ecosystems, Biomes, Humans and Sustainability.

3216HP/3217AP Advanced Placement Biology

2 terms, 2 credits

11, 12

Prerequisites: Successful completion (a grade of A or B recommended) of at least two years of high school laboratory science, including biology and chemistry; and successful completion (a grade of A or B recommended) of one year of Algebra; at least two years of high school math is recommended.

Note: Students MUST enroll in AP Biology both 1st term and 2nd term (a full-year commitment). The first term receives honors points consideration towards the GPA while the spring section of AP awards the official AP points towards the GPA. It is expected that students take the A.P. Exam in May. Students can earn credit and/or placement at most colleges and universities in the United States through qualifying AP Exam scores. There is a required examination fee for the course.

AP Biology is equivalent to a two-semester introductory college biology course taken by students majoring in a biological science. AP Biology differs from regular high school biology through the use of a college - level text, a greater range and depth of topics covered a faster pace of instruction, more sophisticated lab work, and more time and effort required of students in order to succeed in the course. This course has been authorized by the College Board as meeting the requirements for AP Biology.

Students who are genuinely interested in pursuing a career in the biological sciences or medical fields are especially advised to take AP Biology in high school. AP Biology provides students a significant advantage in college by allowing them to acquire the foundation in concepts and skills prerequisite to many college biological science courses. The ability to succeed in AP Biology gives student's confidence and a knowledge base to be successful in future science classes. This course meets the state framework requirements to be designated an honors class and is eligible for the additional percentage point weighting. Refer to the section of the Curriculum Guide regarding grade weighting.

Science Peer Teaching (Invitation-only course)

Stringent selection criteria are used to determine participant eligibility. Once selected, students must attend after- school training sessions at the beginning of the term. Then, they are assigned to a supervising teacher's classroom to provide additional academic support to underclassmen and to help motivate students with low self-confidence and to give one-on-one tutoring. No students may earn more than two peer teaching credits per school year; therefore, those students invited to peer teach in multiple curriculum areas may not register for more than two peer teaching classes.

SOCIAL STUDIES DEPARTMENT COURSE DESCRIPTIONS

Sequence 1- World Geography, U.S. History, U.S. Government, Economics

Sequence 2- World Geography and World History, U.S. History, U.S. Government, Economics

Sequence 3- AP Human Geography and Honors World History, Honors U.S. History, A.P.

Government, Honors Economics

3410N World Geography – Academy Only Year-long 1credit 9

World Geography studies the physical and cultural geography of the world. The physical portion includes the location of oceans, rivers, cities, landmasses, and national boundaries. Cultural geography includes the study of languages, religions, foods, music, housing, and employment of world cultures. Special emphasis is given to current world problems and issues.

3450AP AP Human Geography-Academy Only Year-long 1 credit 9

Advanced Placement Human Geography is a college level course designed as a systematic study of the Earth and its inhabitants. APHG will be similar to a typical undergraduate level course and will cover the following seven units: the geographic perspective; population; cultural patterns and processes; political organization of space; agricultural and rural land use; industrialization and economic development, and cities and urban land use. This course will help students understand how cultural, economic and political systems relate to the distribution of human activities, the nature of places, and people's interaction with their environment.

In addition to mastering course content, each student should be prepared to pass the national college-level Advanced Placement Examination in May. Students may be eligible for college credit for successfully completing the exam. This course will prepare students to enroll in human geography courses at the college level.

3401 World History 1 term - 1 credit 10, 11, 12

This course combines study of the physical and cultural geography of the world. The physical portion includes the location of oceans, rivers, cities, land masses, and national boundaries. Cultural geography includes the study of languages, religions, foods, music, housing, and employment of world cultures. Special emphasis is given to current world problems and issues.

3405 U.S. History 1 term - 1 credit 11

This course will cover the reconstruction period (1865) to the present. Special emphasis will be given to World War II and the decade of the 1960s. This is a state requirement for all eleventh grade students. An End-of-Course Exam is required.

3405H Honors U.S. History 1 term - 1 credit 11

After an accelerated overview of pre-Civil War history, Honors U.S. history will focus on American history from 1865(beginning of the Reconstruction period) to the present. In addition to the standard requirements of any U.S. history course, students in the honors class will be expected to complete a

minimum of three formal historical analysis writing assignments, as well as selected readings from sources beyond the course textbook. A group project relating to a specific historical event or period will also be assigned. This course meets the state framework requirements to be designated an honors class and is eligible for the additional percentage point weighting. Refer to the section of the Curriculum Guide regarding grade weighting.

3405HP/3440AP Advanced Placement US History 2 terms, 2credits 11

Note: Students MUST enroll in AP US History both 1st term and 2nd term (a full-year commitment). The first term receives honors points consideration towards the GPA while the spring section of AP awards the official AP points towards the GPA. This year-long course is designed to provide juniors with a complete a chronological study of the history of the United States America's past- including examinations of cultural, political, geographical, economical and technological changes that have taken place and have shaped our nation. Topics will include Pre-Columbian issues through the Reconstruction period in the fall semester and Industrialization / expansion to the present day in the spring semester. An emphasis will be placed on college preparatory activities and exercises as identified in the College Board AP U.S. HISTORY course description: "The AP program in United States History is designed to provide students with the analytical skills and enduring understandings necessary to deal critically with the problems and materials in United States history. The program prepares students for intermediate and advanced college courses by making demands upon them equivalent to those made by full-year introductory college courses. Students should learn to assess historical materials—their relevance to a given interpretive problem, their reliability, and their importance—and to weigh the evidence and interpretations presented in historical scholarship. An AP United States History course should thus develop the skills necessary to arrive at conclusions on the basis of an informed judgment and to present reasons and evidence clearly and persuasively in an essay format."

Students are required to complete summer assignments, which are due on the first day of school. Students who fail to turn in summer assignments on time are given a two-week grace period with a **D** as the highest possible grade on the assignment. Failure to adhere to this policy results in dismissal from the honors program.

In addition to mastering course content, each student should be prepared to pass the national college-level Advanced Placement Examination in May. Students may be eligible for college credit for successfully completing the exam with a high enough score. This course will prepare students to enroll in United States History courses at the college level.

3407 U.S. Government 1 term - 1 credit 12

This course is a study of local, state, and federal government. Emphasis is placed on how government affects our daily lives and on foreign policy and its interaction with the American government.

3407HP/3445AP Advanced Placement U.S. Government 2 terms, 2credits 12

It is expected that students take the A.P. Exam in May. Students can earn credit and/or placement at most colleges and universities in the United States through qualifying AP Exam scores. There is a required examination fee for the course.

Note: Students MUST enroll in AP Government both 1st term and 2nd term (a full-year commitment). The first term receives honors points consideration towards the GPA while the spring section of AP awards the official AP points towards the GPA. AP American Government is an advanced study of government and politics in the United States. Students will study the basic principles of government, explore the institutions of national government, and examine the impact of political parties, interest groups, and the media on public policy in this country. In addition, students in AP Government will seek a deeper understanding of the civil rights and liberties shared by all American citizens. Advanced placement courses prepare students to take an exam in order to earn college credit. This course meets the state framework requirements to be designated an honors class and is eligible for the additional percentage point weighting. Refer to the section of the Curriculum Guide regarding grade weighting.

3431H Honors Economics 9 weeks – 1/2 credit 12

This course must be taken in conjunction with 9 weeks of Honors Personal Finance

Honors Economics offers outstanding opportunity for independent research, creativity, and achievement for seniors. This is a social science that is concerned with the choices we make to utilize the resources available to us. In this class, students examine economic theories, the reasoning behind the decisions businesses make, concepts of Macroeconomics (unemployment, inflation, the business cycle and monetary policy), and these theories affect our lives.

3431 Economics 9 weeks – 1/2 credit 12

This course must be taken in conjunction with 9 weeks of Personal Finance

Students study the market economy and the free enterprise system with emphasis on the role of government and the individual in the system. The course includes a survey of macro and microeconomics and their effect on the daily lives of students. Many practical topics, such as banking, taxes, voting, financial investment, and others, will be reviewed.

3496 Personal Finance 9 weeks – 1/2 credit 12

This course must be taken in conjunction with 9 weeks of Economics

Personal Finance is a course designed to inform students how individual choices directly influence occupational goals and future earnings potential. Real world topics covered will include income, money management, spending and credit, as well as saving and investing.

3496 Honors Personal Finance 9 weeks – 1/2 credit 12

This course must be taken in conjunction with 9 weeks of Honors Economics

Honors Personal Finance as a course will have an emphasis on independent research, creativity, and academic achievement. At its core, this offering is designed to inform students how individual choices directly influence occupational goals and future earnings potential. Real world topics covered will include income, money management, spending and credit, as well as saving and investing.

3433 Psychology 1 term - 1 credit 10, 11, 12

This course will explore human behavior. Students will study how emotions, gender, stress, socio-cultural, and socioeconomic factors influence their decision-making process. Students will examine different learning styles, problem-solving techniques, and psychological tests.

3433HP/3447AP Advanced Placement Psychology 2 terms, 2credits 11, 12

It is expected that students take the A.P. Exam in May. Students can earn credit and/or placement at most colleges and universities in the United States through qualifying AP Exam scores. There is a required examination fee for the course.

The purpose of the AP course in Psychology is to introduce the systematic and scientific study of the behavior and mental processes of human beings and other animals. Included is a consideration of the psychological facts, principles, and phenomena associated with each of the major subfields within psychology. Students also learn about the ethics and methods psychologists use in their science and practice. This course meets the state framework requirements to be designated an honors class and is eligible for the additional percentage point weighting. Refer to the section of the Curriculum Guide regarding grade weighting.

3432 Sociology 1term - 1 credit 10, 11, 12

During this course of study, students will develop an understanding and be able to apply sociological concepts and perspectives concerning human groups that include attention to socialization, culture, organization, stratification and societies.

3497 Appalachian Studies – Academy Only 1 term - 1 credit 9

This course will be a compilation of studies—culture, history, geography, recreational activities, music—all relating to the East Tennessee / Western North Carolina region. There will be a special emphasis on Blount County's people and places.

3435 Contemporary Issues

1 term - 1 credit

10, 11, 12

This course brings together all the social studies--geography, history, civics, etc.--to explore the vital issues concerning our world today. Students will conduct in-depth explorations of major issues using guided readings, discussions, research, debates, simulations, videos, and other learning activities. Special emphasis will be placed in how these issues affect our area.

3403 Modern History

1 term - 1 credit

10, 11, 12

This course is a study of world events and trends since the Great Depression, including World War II and the Cold War, as well as their impact on the present and their implications for the future. In addition to standard requirements for World and US Histories, students will gain a more in-depth understanding of the political, economic, and cultural relationships among the nations of the world both present and past through firsthand accounts of guest speakers and hands-on demonstrations. Students may also be able to participate in a multinational European field trip to personally experience some of the major nations which they have studied throughout the course.

Social Studies Peer Teaching (Invitation-only course)

Stringent selection criteria are used to determine participant eligibility. Once selected, students must attend after-school training sessions at the beginning of the term. Then, they are assigned to a supervising teacher's classroom to provide additional academic support to underclassmen and to help motivate students with low self-confidence and to give one-on-one tutoring. No student may earn more than two peer-teaching credits per school year; therefore, those students invited to peer teach in multiple curriculum areas may not register for more than two peer teaching classes.

WELLNESS DEPARTMENT COURSE DESCRIPTIONS

Students may not take more than one Wellness/P.E. class per term, except for students involved in Freshman Football.

3303N Lifetime Wellness/PE – Academy Only

2 terms, 2 credits

9

This course introduces the student to the life-long process of positive lifestyle management that seeks to integrate the emotional, social, intellectual, and physical dimensions of self for a longer, more productive, and higher quality of life. Students completing this course will be better prepared to assume responsibilities for personal wellness.

3303 Lifetime Wellness

1 term - 1 credit

10, 11, 12

The objective of this course is to aid the student in development of a life-long process of positive lifestyle management that seeks to integrate the emotional, social, intellectual, and physical

dimensions of a self for a longer, more productive, and higher quality life. This is a required course for graduation unless the student substitutes it with ROTC I.

3302 Strength and Conditioning (P.E. II) 1 term - 1 credit 10, 11, 12

Prerequisite: Wellness credit

Strength and Conditioning is offered to any student who is seriously interested in increasing his or her fitness level through strength training, flexibility, plyometrics, agility/quickness drills, and speed development. This course is highly recommended for all students who have an interest in physical activity. Daily workouts in athletic dress are required. Repeaters must have approval from instructor/coach.

3302T Team Sports 1 term - 1 credit 11

Prerequisite: Wellness credit

The objective of this course is to provide the student with knowledge of the history, rules, and basic skills of various team sports including, but not limited to, touch football, softball, soccer, basketball, and volleyball. This course may not be repeated.

3302I Individual and Dual Sports 1 term - 1 credit 12

Prerequisite: Wellness credit

The objective of this course is to provide the student with knowledge of the history, rules, and basic skills of various individual and dual sports including, but not limited to, tennis, badminton, track and field, racquetball, and bowling. This course may not be repeated.

3302A Strength/Conditioning A/B 1 term - 1 credit 10, 11, 12

This fifth period course is for physically advanced students. Students will lift in weight room four days a week. Emphasis will be placed on advanced lifting techniques, nutrition, speed, quickness, and fundamentals.

SPECIAL SERVICES COURSE DESCRIPTIONS

9350SE Special Services Peer Buddy 1 term - 1 credit 11, 12

Prerequisite: Application and approval of teacher

This course is designed to enable students to develop peer relationships while acting as peer buddies and positive role models for students with special needs. The buddies will receive instruction about various types of disabilities and learning problems, instructional techniques for students with disabilities, and ideas on how to help increase the social skills, interactions, and participation of their

peers with special needs in the day-to-day activities at their school and in their community. The course can be taken as an elective for one credit per semester, one class period per day. Students must meet the following criteria: (a) an interest in the peer tutoring program, (b) an adequate GPA, (c) good attendance, (d) a recommendation from a teacher or counselor, and (e) a personal schedule of studies allowing for an elective.

CAREER TECHNICAL EDUCATION DEPARTMENT

COURSE DESCRIPTIONS

The technology courses assist the students in acquiring personal and technical skills that will enable them to gain employment with job entry-level skills or to enter a post-secondary training program, an apprenticeship, and/or a college or university for additional training. The technology curricula are designed to be 2 or 3-year programs for students in grades 10, 11, and 12. The first year gives students basic theory and training in a variety of activities. Second-year students receive advanced lab training and on-the-job experience. Third-year courses are available in most areas. Students must have the permission of the instructor and be involved in work-based learning. Clubs are an integral part of each technical course and are designed to develop leadership.

Students in a Career Technical Education (CTE) Focus must take 3 classes in an area of interest. See focus areas listed below.

Prerequisites are listed in each technical area and are required before students are allowed to take advanced courses.

CAREER TECHNICAL EDUCATION FOCUS AREAS

AGRICULTURE, FOOD, AND NATURAL RESOURCES

Agriculture, Engineering and Applied Technology

Agriscience

Principles of Agricultural Mechanics

Agricultural Power and Equipment

Principles of Agricultural Engineering

Agriculture and Biosystems Engineering

Environmental and Natural Resources Management

Agriscience

Applied Environmental Science

Natural Resources Management

Horticulture Science

Agriscience

Principles of Plant Science and Hydroculture

Landscaping & Turf Management

Greenhouse Management

Veterinary and Animal Science

Agriscience

Small Animal Science

Large Animal Science

ARCHITECTURE AND CONSTRUCTION

Design and Preconstruction

Computer Aided Drafting I

Computer Aided Drafting II

Advanced Drafting and Design

Welding Technology

Introduction of Welding

Basic Principles of Welding

Advanced Welding Applications & Certification

Construction Carpentry

Construction Core

Carpentry I

Carpentry II

ARTS, AV TECHNOLOGY & COMMUNICATION

Design Communications

Digital Arts & Design I

Digital Arts & Design II

Digital Arts & Design III

BUSINESS, MANAGEMENT, AND ADMINISTRATION

Banking and Finance

Computer Applications or Business Principles

Accounting I

Business Economics and Personal Finance

Business Management

Computer Applications or Business Principles

Accounting I

Business Management

HEALTH SCIENCE

Therapeutic Clinical Services

Health Science Education

Forensic Science

Medical Therapeutics

Anatomy & Physiology

Emergency Services

Health Science Education

Emergency Preparedness

Medical Terminology (thru Roane State)

Anatomy & Physiology

Emergency Medical Services (thru Roane State)

Therapeutic Nursing Services

Health Science Education

Medical Therapeutics

Anatomy & Physiology

Medical Terminology (on campus, thru Roane State)

Nursing Education Honors

Clinical Internship Honors

HUMAN SERVICES

Cosmetology

Principles of Cosmetology
Design Principles of Cosmetology
Chemistry of Cosmetology

Social and Health Services

Family and Consumer Science
Child Development
Life Connections

Dietetic and Nutrition

Family & Consumer Science
Nutrition & Foods
Psychology

Interior Design

Foundation of Interior Design
Residential Interior Design
Advanced Interior Design

HOSPITALITY AND TOURISM

Food and Beverage Services

Culinary Arts I
Culinary Arts II
Culinary Arts III

INFORMATION TECHNOLOGY

Web Design

Computer Applications
Interactive Multimedia
Web Page Design I

TRANSPORTATION

Automotive Technology

Maintenance and Light Repair I

Maintenance and Light Repair II

Maintenance and Light Repair III

Maintenance and Light Repair IV

Collision Repair Technology

Transportation Core

Collision Repair: Non Structural

Collision Repair: Structural

Collision Repair: Painting and Refinishing

AGRICULTURE, FOOD, AND NATURAL RESOURCES

Horticultural Science

5957 Agriscience

1 term - 1 credit

9, 10, 11

Agriscience is an introductory laboratory science course that prepares students for biology, subsequent science and agriculture courses, and postsecondary study. This course helps students understand the important role that agricultural science and technology serves in the 21st century. In addition, it serves as the first course for all programs of study in the Agriculture, Food and Natural Resources Cluster.

6119 Principles of Plant Science and Hydroculture 1 term – 1 credit 10, 11, 12

Principles of Plant Science and Hydroculture focuses on essential knowledge and skills related to the science of plant growth. This course covers *principles of plant health, growth, reproduction, and biotechnology, as well as fundamental principles of hydroponics and aquaponics.*

5954 Greenhouse Management

1 term - 1 credit 10, 11, 12

Prerequisite: Agriscience

Greenhouse Management is an applied-knowledge course designed to prepare students to manage greenhouse operations. This course covers principles of greenhouse structures, plant health and growth, growing media, greenhouse crop selection and propagation, and management techniques. It provides students with the technical knowledge and skills needed to prepare for further education and careers in horticulture production.

5163 Landscaping and Turf Science 1 term - 1 credit 11,12

Prerequisite: Agriscience

Landscaping and Turf Science is an applied-knowledge course designed to provide challenging academic standards and relevant technical knowledge and skills needed for further education and careers in landscape design, maintenance, and turf management. Content includes site analysis and planning, principles of design and plant selection and care techniques

Veterinary and Animal Science

5957 Agriscience 1 term - 1 credit 9, 10, 11

Agriscience is an introductory laboratory science course that prepares students for biology, subsequent science and agriculture courses, and postsecondary study. This course helps students understand the important role that agricultural science and technology serves in the 21st century. In addition, it serves as the first course for all programs of study in the Agriculture, Food and Natural Resources Cluster.

5958 Small Animal Science 1 term – 1 credit 10, 11, 12

Prerequisite: Agriscience

Small Animal Science is an applied course in animal science and care for students interested in learning more about becoming a veterinarian, vet tech, vet assistant, or pursuing a variety of scientific, health, or agriculture professions. This course covers anatomy and physiological systems of different groups of small animals, as well as careers, leadership, and history of the industry.

6116 Large Animal Science 1 term – 1 credit 10, 11, 12

Prerequisite: Agriscience

Large Animal Science is an applied course in veterinary and animal science for students interested in learning more about becoming a veterinarian, vet tech, vet assistant, or pursuing a variety of scientific, health, or agriculture professions. This course covers anatomy and physiological systems of different groups of large animals, as well as careers, leadership, and history of the industry.

Agriculture Engineering and Applied Technology

5957 Agriscience 1 term - 1 credit 9, 10, 11

Agriscience is an introductory laboratory science course that prepares students for biology, subsequent science and agriculture courses, and postsecondary study. This course helps students understand the important role that agricultural science and technology serves in the 21st century. In addition, it serves as the first course for all programs of study in the Agriculture, Food and Natural Resources Cluster.

5944 Principles of Agricultural Mechanics 1 term – 1 credit 10, 11, 12
Prerequisite: Agriscience

Principles of Agricultural Mechanics is a course introducing students to basic skills and knowledge in construction and land management for both rural and urban environments. This course covers topics including project management, basic engine and motor mechanics, land surveying, irrigation and drainage, agricultural structures, and basic metalworking techniques.

5945 Agricultural Power and Equipment 1 term – 1 credit 11,12
Prerequisite: Agriscience

Agricultural Power and Equipment is an applied-knowledge course in agricultural engineering with special emphasis on laboratory activities involving small engines, tractors, and agricultural equipment. The standards in this course address navigation, maintenance, repair, and overhaul of electrical motors, hydraulic systems, and fuel-powered engines as well as exploration of a wide range of careers in agricultural mechanics.

5963 Agricultural and Biosystems Engineering 1 term – 1 credit 11, 12
Prerequisite: Agriscience

Agricultural and Biosystems Engineering is a capstone course that prepares students for further study or careers in engineering, environmental science, agricultural design and research, and agricultural mechanics. Special emphasis is given to the many modern applications of Geographic Information Systems (GIS) and Global Positioning Systems (GPS) to achieve various agribusiness goals.

Environmental and Natural Resources

5957 Agriscience 1 term - 1 credit 9, 10, 11

Agriscience is an introductory laboratory science course that prepares students for biology, subsequent science and agriculture courses, and postsecondary study. This course helps students understand the important role that agricultural science and technology serves in the 21st century. In addition, it serves as the first course for all programs of study in the Agriculture, Food and Natural Resources Cluster.

6114 Applied Environmental Science 1 term – 1 credit 10, 11, 12

Prerequisite: Agriscience

Applied Environmental Science focuses on the knowledge, information, and skills related to the fundamental science and management of ecosystems as well as careers, leadership and history of the industry. This course covers principles of environmental impacts, energy consumption, and ecosystem management.

6117 Natural Resources Management 1 term – 1 credit 11, 12

Prerequisite: Agriscience

Environmental and Natural Resource Management is an applied knowledge course for students interested in learning more about becoming good stewards of our environment and natural resources, as an environmental scientist, conservationist, forester, or wildlife manager. This course covers major types of natural resources and their management, public policy, the role of public education in managing resources, as well as careers, leadership, and history of the industry.

ARCHITECTURE AND CONSTRUCTION

Design and Preconstruction

6037 Computer Aided Drafting I 1 term -1 credit 9, 10, 11, 12

Concurrent: Algebra 1, basic experience with Windows

Computer Aided Drafting is a course in which students learn the basic concepts of scale drawings and orthographic projections by making simple two- and three-dimensional drawings using manual drafting tools and computer- aided design (CAD). Course content will enable the students to make the transition into the use of CAD software by having them make increasingly sophisticated drawings.

6039 Computer Aided Drafting II 1 term -1 credit 10, 11, 12

Prerequisite: Computer Aided Drafting, Algebra 1

Computer Aided Drafting II is a course in which students learn advanced two-dimensional and basic three-dimensional concepts of scale drawing and orthographic projections using a software program. Course content will enable individual students to create increasingly sophisticated drawings using a software program and will culminate in the creation of a complete set of construction and/or assembly drawings for a mechanical project.

5927 Advanced Drafting and Design 1 term -1 credit 11, 12

Prerequisite: CAD I and CAD II

Advanced Drafting and Design is a course in which students will learn to use a software program to create engineering drawings including architectural, civil or plan drawings, assembly drawings, welding and process drawings, cross sections, 3D representations, bills of materials and schedules. Emphasis is on drawings of increasing complexity.

Construction Welding

5819 Introduction to Welding

1 term - 1 credit

10, 11, 12

Introduction to Welding* is a course in which students will learn basics skills and knowledge related to cutting and welding applications. Course content includes safe practices, career research, leadership development, and basic arc welding and thermal cutting skills. Combined with the second and third year courses, Basic Principles of Welding and Welding Applications and Certification, the student should be prepared for Entry Level Welder Certification, as defined by American Welding Society QC10.

5747 Basic Principles of Welding

1 term - 1 credit

10, 11, 12

Prerequisites: Construction Core, Introduction to Welding

Basic Principles of Welding is a course designed to follow Introduction to Welding, in which students will learn more advanced skills and knowledge related to cutting and welding applications. Development of welding and cutting skills will be continued in the context of a series of projects. Combined with the third year course, Advanced Welding Applications and Certification, the student should be prepared for Entry Level Welder Certification, as defined by American Welding Society QC10.

5746 Advanced Welding Applications

1 term - 2 credits

11, 12

Prerequisites: Construction Core, Introduction to Welding, Basic Principles of Welding

Advanced Welding Applications and Certification* is a course designed to follow Basic Principles of Welding, in which students will learn more advanced techniques and skills related to cutting and welding applications. Welding and cutting skills developed in Introduction to Welding and Basic Principles of Welding will be used to satisfactorily complete a series of industry certification tests. Following the completion of this course, including successful passage of the industry certification tests, the student should be certified as an Entry Level Welder as defined by American Welding Society QC10.

Construction Carpentry

5814 Construction Core

1 term - 1 credit

10, 11, 12

Construction Core is a course that will introduce students to basic skills and knowledge applicable to all construction trades. Topics include safety, construction drawings, site layout, hand and power tools, linear and angular measurements, and the application of algebraic and geometric principles to construction problems.

5748 Carpentry I 1 term - 1 credit 10, 11, 12

Prerequisites: Construction Core Recommended: Algebra I

This course will introduce students to basic skills and knowledge related to residential and commercial carpentry. Topics covered include wood, metal, and concrete building materials; fasteners; hand and power tools; fabrication based on construction plans; and framing of platform and post-and-beam structures, in both wood and metal. This course gives students an introduction to the skill and knowledge base typically required for apprentice carpenters.

5749 Carpentry II 1 term- 2 credits 11, 12

Prerequisites: Construction Core, Carpentry I, Algebra I

Recommended: Geometry, Principles of Technology or Physical Science

In this course, students will extend their skills and knowledge related to residential and commercial carpentry. Topics covered include stairs, installation and trim of windows and doors, installation and repair of gypsum wallboard, advanced site layout, exterior finish work, thermal and moisture protection, and an introduction to welding. This course gives students a substantial skill and knowledge foundation typically required for apprentice carpenters.

Interior Design

6014 Foundations of Interior Design (Interior Design) 1 term – 1 credit 10, 11, 12

Foundations of Interior Design is the first course in the *Interior Design* program of study intended to prepare students for careers in residential and commercial interior design. Upon completion of this course, students will be able to analyze and demonstrate the elements and the principles of design, and apply these concepts using sketching techniques in the creation of perspective floor plans. Standards in this course include career exploration of various options within the interior design industry as well as an overview of the history of interior design. Projects will involve individual and team assignments. Standards in this course are aligned with Tennessee Common Core State Standards for English Language Arts & Literacy in Technical Subjects and National Standards for Family and Consumer Sciences Education, Second Edition.*

6006 Residential Interior Design 1 term – 1 credit 11, 12

Prerequisite: Interior Design

Residential Interior Design is the second course in the *Interior Design* program of study intended to prepare students for careers in residential and commercial interior design. Upon completion of this course, students will be able to use manual drafting tools and computer-aided drafting software to create original floor plans, perspective drawings, and color renderings. In addition, students will engage in the development of board presentation techniques for residential spaces using textiles samples and three-dimensional sketches. Standards in this course are aligned with Tennessee Common Core State Standards for English Language Arts & Literacy in Technical Subjects and National Standards for Family and Consumer Sciences Education, Second Edition.*

6121 Advanced Interior Design (Housing) 1 term – 1 credit 11, 12

Prerequisite: Residential Interior Design

Advanced Interior Design is an applied-knowledge course intended to prepare students for careers in the interior design industry. This course places special emphasis on an internship opportunity and a hands-on capstone project. Students in *Advanced Interior Design* will create a design for a specific space and purpose, either residential or commercial, applying skills and knowledge from previous courses using industry-specific technologies. Standards in this course are aligned with Tennessee Common Core State Standards for English Language Arts & Literacy in Technical Subjects and National Standards for Family and Consumer Sciences Education, Second Edition.*

ARTS, AV TECHNOLOGY AND COMMUNICATION

Design Communications

6084 Digital Arts & Design I 1 term - 1 credit 10, 11, 12

Digital Arts and Design I —is a course that provides a foundation in visual communication concepts and design strategies. Course content is designed to foster skills and understanding that are essential in modern digital graphics, motion graphics, publishing, Web, film/video, photography, and animation graphic industries. Focus will be on developing understanding of key design concepts and strategies, along with design challenges that translate into creative communication solutions which accurately and effectively reach targeted audiences. Along with study of design principles, conceptualization processes and techniques, students will explore various applications of design through extensive study of typography, style, composition, visual elements, color, creative technical software and various problem-solving tasks, that encourages higher order thinking. The class focuses on exploration of career opportunities, development of leadership, teamwork, collaborative and technical skills requisite in many aspects of life.

6086 Digital Arts & Design II 1 term - 1 credit 11, 12

Required Prerequisite: Digital Arts & Design I

Digital Arts and Design II is a course that builds on the foundational core elements of visual communication concepts and design strategies, learned in (Digital Arts and Design I) Course content is designed to reinforce skills and support understanding that are essential in modern digital graphics, motion graphics, publishing, Web, film/video, photography, and animation graphic industries. Focus will be on developing understanding of key design concepts and strategies, along with design challenges that translate into creative communication solutions which accurately and effectively communicate. Along with continued study of design principles, conceptualization processes and techniques, students will gain mastery of various applications of design through continued study of typography, style, composition, visual elements, color, creative technical software and more focused problem-solving tasks, that encourages higher order thinking. Exploration of career opportunities, development of leadership, teamwork, collaborative and technical skills requisite in many aspects of life and industry which are creative and multi-faceted will be developed. Course content is also related to other pathways.

6087 Digital Arts & Design III

1 terms - 1 credit

11, 12

Required Prerequisites: Digital Arts and Design I and II

Digital Arts and Design III — With the confluence of technologies, visual arts and creative practices have changed dramatically over the past several years. Increasingly, the design studio functions as a dynamic and vital space for learning, exploring, and innovation. Negotiating complex relationships, developing communication strategies that leverage new technologies and provide robust opportunities for the application of knowledge, skills, and critical thinking associated with an array of contemporary creative and studio practices is the new industry standard. Course content is selected to broaden the foundation of design concepts and understanding related to modern communication design. This course will foster advanced integrated skills that are essential in digital graphics, motion graphics, publishing, Web, film/video, photography, and animation graphic industries. Students will be exposed to real world design challenges in a laboratory facility through projects that simulate industry objectives. Course content is also related to other pathways.

BUSINESS, MANAGEMENT, FINANCE, AND ADMINISTRATION

The Business Education curriculum allows students to develop competency in business and office occupations and makes students better consumers and better members of the economic community. Courses in technical training are offered, as well as courses for personal use.

*Students graduating from high school in Blount County are required to earn one computer credit.

Banking and Finance**5891 Computer Applications**

1 term - 1 credit

10, 11,12

This course is designed to develop computer technology skills. Students will use a variety of computer software and hardware tools and features of an electronic information network. Students will explore the social, business, and ethical issues of using computer technology. The students will develop skills that will assist them with efficient production of word processing documents, spreadsheets, databases, and presentations. *(This course requires a computerized workstation for each student with operating system, word processing, database, spreadsheet, presentation, and networking resident software.)*

5905 Business Principles

1 term – 1 credit

10, 11, 12

Business Principles is a core course in which students are introduced to all aspects of business: the domestic and international economies, financial principles, management strategies, administrative and information systems, ethics, and organizational and professional leadership. Students will analyze the elements of the business environment and focus on attitudinal and problem-solving skills inherent to success. *(This course provides access to a computerized workstation for each student to complete computer applications using appropriate software.)*

5910 Accounting I

1 term - 1 credit

10, 11, 12

Accounting I introduces concepts and principles based on a double-entry system of maintaining the electronic and manual financial records for a sole proprietorship, a partnership, and a corporation. It includes analyzing business transactions, journalizing, posting and preparing worksheets and financial statements. *(This course provides access to a computerized workstation for each student to complete financial applications using accounting and spreadsheet software.)*

5898 Business Economics

9 weeks – 1/2 credit

12

This course must be taken in conjunction with 5613 Personal Finance

This course provides an in-depth study of fundamental concepts, free enterprise trading practices, and the various players in the economic system. Topics include the production, marketing, and distribution of goods and services, as well as the roles of financial institutions, the government, and the individual within the free enterprise system. Students will explore various careers related to the economy. International trade and economics have become an integral part of Business Economics. *(Specific activities will require use of Internet, word processing, and spreadsheet software.)*

5613 Personal Finance

9 weeks -1/2 credit

12 only

This course must be taken in conjunction with 5898 Business Economics

Personal Finance is a course designed to help students understand the impact of individual choices on occupational goals and future earnings potential. Real world topics covered will include income, money management, spending, and credit, as well as saving and investing. Students will design personal and household budgets; simulate use of checking and saving accounts; demonstrate knowledge of finance, debt, and credit management; and evaluate and understand insurance and taxes. This course will provide a foundational understanding for making informed personal financial decisions. Family, Career and Community Leaders of America (FCCLA), the co-curricular student organization, provides students with opportunities for leadership development, personal growth, and school/community involvement.

Business Management**5891 Computer Applications**

1 term - 1 credit

10, 11, 12

This course is designed to develop computer technology skills. Students will use a variety of computer software and hardware tools and features of an electronic information network. Students will explore the social, business, and ethical issues of using computer technology. The students will develop skills that will assist them with efficient production of word processing documents, spreadsheets, databases, and presentations. *(This course requires a computerized workstation for each student with operating system, word processing, database, spreadsheet, presentation, and networking resident software.)*

5910 Accounting I

1 term - 1 credit

10, 11, 12

Accounting I introduces concepts and principles based on a double-entry system of maintaining the electronic and manual financial records for a sole proprietorship, a partnership, and a corporation. It includes analyzing business transactions, journalizing, posting and preparing worksheets and financial statements. *(This course provides access to a computerized workstation for each student to complete financial applications using accounting and spreadsheet software.)*

5889 Business Management

1 term - 1 credit

11, 12

Students in Business Management will develop a foundation in the many activities, problems, and decisions that are intrinsic to the management of a successful business, as well as an appreciation for the importance of these responsibilities. Areas to be examined include business organization, ethical and legal responsibilities, communication, decision-making, personnel, safety, professional development and related careers. By gaining an understanding of these areas, students will be better prepared to enhance the business decisions of tomorrow.

HEALTH SCIENCE

Every course that is offered within the health science program of studies embodies learning objectives that emphasize and continually revisit the following standards and competencies: medical ethics and legal responsibilities, safety within clinical practice, professionalism and job-seeking skills in health care, basic patient care skills, medical terminology, and Health Occupations Students of America (HOSA) membership and related activities such as community service, academic competitions, leadership development and team-building workshops.

Forensic Science**5998 Health Science Education**

1 term - 1 credit

10, 11, 12

Health Science 5998 is a prerequisite to all other Health Science courses. This introductory course acquaints the student with beginning principles of health care, services offered by health care systems, careers in the health care industry, the fundamentals of nutrition, and basic patient care skills. Components of human growth and development, cultural diversity, and communication skills are emphasized as they relate to the medical setting. Other highlights include current events in medicine, medical math, medical ethics, and medical terminology.

5998H Health Science Education Honors

1 term - 1 credit

10, 11, 12

Health Science Honors 5998H is a prerequisite to all other Health Science courses. This introductory course acquaints the student with beginning principles of health care, services offered by health care systems, careers in the health care industry, the fundamentals of nutrition, and basic patient care skills. Components of human growth and development, cultural diversity, and communication skills

are emphasized as they relate to the medical setting. Other highlights include current events in medicine, medical math, medical ethics, and medical terminology. This course meets the state framework requirements to be designated an honors class and is eligible for the additional percentage point weighting. Refer to the section of the Curriculum Guide regarding grade weighting.

5994 Diagnostic Medicine 1 term - 1 credit 10, 11, 12

Prerequisite: Health Science Education

The students will learn the ways diagnostic medicine creates a picture of an individual's health. This could include, but is not limited to, cardiology, imaging, medical laboratory, radiology and other forms of diagnostic medicine.

5516HQ Health Science Anatomy &Physiology 1 term - 1 credit 11, 12

Prerequisite for concentrators: Health Science Education, Diagnostic Medicine, Biology I
Prerequisite for science credit only: Biology I

Recommended: Chemistry I

In this course, students will examine human anatomy and physical functions. They will analyze descriptive results of abnormal physiology and evaluate clinical consequences. A working knowledge of medical terminology will be demonstrated. Students may take this course as one of the four needed to be a concentrator in Health Sciences, or they may take it for a science credit.

5516HHQ Health Science Anatomy &Physiology Honors 1 term - 1 credit 11, 12

Prerequisite for concentrators: Health Science Education, Diagnostic Medicine, Biology I
Prerequisite for science credit only: Biology I

Recommended: Chemistry I

In this course, students will examine human anatomy and physical functions. They will analyze descriptive results of abnormal physiology and evaluate clinical consequences. A working knowledge of medical terminology will be demonstrated. Students may take this course as one of the four needed to be a concentrator in Health Sciences, or they may take it for a science credit.

This course meets the state framework requirements to be designated an honors class and is eligible for the additional percentage point weighting. Refer to the section of the Curriculum Guide regarding grade weighting.

5523HQ Forensic Science

1 term - 1 credit

11, 12

Prerequisite for concentrators: Health Science Education, Diagnostic Medicine, Biology I***Prerequisite for science credit only: Biology I***

Recommended: Chemistry I

This course is an overview of how science is applied to solve crimes. Topics including history of forensic sciences, collecting of evidence, analyzing results and hands-on applications of many laboratory techniques used in solving crimes and identifying people in future careers. Students will participate in a mock (staged) crime scene to apply knowledge and skills gained. Jobs include: Forensic nurses, odontologists, pathologists, psychiatrists, crime scene investigators, medical examiners/coroners, forensic technicians, criminalists, toxicologists, wildlife specialist, forensic engineers, accountants, computer specialists, aviation and construction accident investigators, forensic photographers, skull reconstructionists, document and polygraph examiners. Students may take this course as one of the four needed to be a concentrator in Health Sciences, or they may take it for a science credit.

Therapeutic Emergency Services**5526 Health Science Education**

1 term - 1 credit

10, 11, 12

Health Science 5526 is a prerequisite to all other Health Science courses. This introductory course acquaints the student with beginning principles of health care, services offered by health care systems, careers in the health care industry, the fundamentals of nutrition, and basic patient care skills. Components of human growth and development, cultural diversity, and communication skills are emphasized as they relate to the medical setting. Other highlights include current events in medicine, medical math, medical ethics, and medical terminology.

5526H Health Science Education Honors

1 term - 1 credit

10, 11, 12

Health Science Honors 5526H is a prerequisite to all other Health Science courses. This introductory course acquaints the student with beginning principles of health care, services offered by health care systems, careers in the health care industry, the fundamentals of nutrition, and basic patient care skills. Components of human growth and development, cultural diversity, and communication skills are emphasized as they relate to the medical setting. Other highlights include current events in medicine, medical math, medical ethics, and medical terminology. This course meets the state framework requirements to be designated an honors class and is eligible for the additional percentage point weighting. Refer to the section of the Curriculum Guide regarding grade weighting.

5527 Medical Therapeutics 1 term - 1 credit 10, 11, 12

Prerequisite: Health Science Education

This course provides knowledge and skills to maintain or change to the health status of an individual over time. This could include careers such as, dental, dietetics, medical assistants, home health, nursing, pharmacy, respiratory, social work, nutritionist, physician, psychiatrist, psychologist, veterinarian, gerontology service provider, medical practice owner, attorney for health care, and others.

5527H Medical Therapeutics Honors 1 term - 1 credit 10, 11, 12

Prerequisite: Health Science Education

This course provides knowledge and skills to maintain or change to the health status of an individual over time. This could include careers such as, dental, dietetics, medical assistants, home health, nursing, pharmacy, respiratory, social work, nutritionist, physician, psychiatrist, psychologist, veterinarian, gerontology service provider, medical practice owner, attorney for health care, and others. This course meets the state framework requirements to be designated an honors class and is eligible for the additional percentage point weighting. Refer to the section of the Curriculum Guide regarding grade weighting.

5516HQ Health Science Anatomy & Physiology 1 term - 1 credit 11, 12

Prerequisite for concentrators: Health Science Education, Diagnostic Medicine, Biology I
Prerequisite for science credit only: Biology I

Recommended: Chemistry I

In this course, students will examine human anatomy and physical functions. They will analyze descriptive results of abnormal physiology and evaluate clinical consequences. A working knowledge of medical terminology will be demonstrated. Students may take this course as one of the four needed to be a concentrator in Health Sciences, or they may take it for a science credit.

5516HHQ Health Science Anatomy & Physiology Honors 1 term-1 credit 11, 12

Prerequisite for concentrators: Health Science Education, Diagnostic Medicine, Biology I
Prerequisite for science credit only: Biology I

Recommended: Chemistry I

In this course, students will examine human anatomy and physical functions. They will analyze descriptive results of abnormal physiology and evaluate clinical consequences. A working knowledge of medical terminology will be demonstrated. Students may take this course as one of the four needed to be a concentrator in Health Sciences, or they may take it for a science credit.

This course meets the state framework requirements to be designated an honors class and is eligible for the additional percentage point weighting. Refer to the section of the Curriculum Guide regarding grade weighting.

5522H/EMT109 Emergency Medical Services 1 term - 1 credit 11, 12

Dual Enrollment Roane State 3 hours college credit

Prerequisite: Health Science Education, 3.0 GPA

Emergency Medical Service (EMS) is offered as a dual enrollment course with Roane State community College. This is the initial training course in the art of pre-hospital emergency medical care that follows the guidelines set by the Department of Transportation (D.O.T.). First Responders are individuals trained to assess patients, use AED's, provide emergency care, and move patients without causing injury. Students will receive a high school credit, as well as three hours of college credit in emergency Medical Technology. Upon successful completion of this course, students will be eligible to certify as First Responders by taking the state licensure exam given by the Department of Health, Division of emergency Medical Services. Students must be a junior or senior, 17 years of age or older, and have a GPA of 3.0 or greater. This course offers a National Industry Certification through a nationally recognized examination and may be eligible for additional percentage point weighting. Refer to the section of the Curriculum Guide regarding grade weighting.

Therapeutic Services

5526 Health Science Education 1 term - 1 credit 10, 11, 12

Health Science 5526 is a prerequisite to all other Health Science courses. This introductory course acquaints the student with beginning principles of health care, services offered by health care systems, careers in the health care industry, the fundamentals of nutrition, and basic patient care skills. Components of human growth and development, cultural diversity, and communication skills are emphasized as they relate to the medical setting. Other highlights include current events in medicine, medical math, medical ethics, and medical terminology.

5526H Health Science Education Honors 1 term - 1 credit 10, 11,12

Health Science Honors 5526H is a prerequisite to all other Health Science courses. This introductory course acquaints the student with beginning principles of health care, services offered by health care systems, careers in the health care industry, the fundamentals of nutrition, and basic patient care skills. Components of human growth and development, cultural diversity, and communication skills are emphasized as they relate to the medical setting. Other highlights include current events in medicine, medical math, medical ethics, and medical terminology. This course meets the state framework requirements to be designated an honors class and is eligible for the additional percentage point weighting. Refer to the section of the Curriculum Guide regarding grade weighting.

5527 Medical Therapeutics 1 term -1 credit 10, 11, 12

Prerequisite: Health Science Education

This course provides knowledge and skills to maintain or change to the health status of an individual over time. This could include careers such as, dental, dietetics, medical assistants, home health, nursing, pharmacy, respiratory, social work, nutritionist, physician, psychiatrist, psychologist, veterinarian, gerontology service provider, medical practice owner, attorney for health care, and others.

5527H Medical Therapeutics Honors 1 term - 1 credit 10, 11, 12

Prerequisite: Health Science Education

This course provides knowledge and skills to maintain or change to the health status of an individual over time. This could include careers such as, dental, dietetics, medical assistants, home health, nursing, pharmacy, respiratory, social work, nutritionist, physician, psychiatrist, psychologist, veterinarian, gerontology service provider, medical practice owner, attorney for health care, and others. This course meets the state framework requirements to be designated an honors class and is eligible for the additional percentage point weighting. Refer to the section of the Curriculum Guide regarding grade weighting.

5516HQ Health Science Anatomy &Physiology 1 term - 1 credit 11, 12

Prerequisite for concentrators: Health Science Education, Diagnostic Medicine, Biology I
Prerequisite for science credit only: Biology I

Recommended: Chemistry I

In this course, students will examine human anatomy and physical functions. They will analyze descriptive results of abnormal physiology and evaluate clinical consequences. A working knowledge of medical terminology will be demonstrated. Students may take this course as one of the four needed to be a concentrator in Health Sciences, or they may take it for a science credit.

5516HHQ Health Science Anatomy &Physiology Honors 1 term - 1 credit 11, 12

Prerequisite for concentrators: Health Science Education, Diagnostic Medicine, Biology I
Prerequisite for science credit only: Biology I

Recommended: Chemistry I

In this course, students will examine human anatomy and physical functions. They will analyze descriptive results of abnormal physiology and evaluate clinical consequences. A working knowledge of medical terminology will be demonstrated. Students may take this course as one of the four needed to be a concentrator in Health Sciences, or they may take it for a science credit.

This course meets the state framework requirements to be designated an honors class and is eligible for the additional percentage point weighting. Refer to the section of the Curriculum Guide regarding grade weighting.

5520H Clinical Internship Honors

1 term - 1 credit

12

Prerequisites: Health Science Education, Medical Therapeutics.

Required: Students registered for Clinical Internship must also register for Nursing Education.

Recommended: Biology and Chemistry

These courses are taught concurrently during two consecutive blocks and are designed to reinforce and apply previously learned competencies by providing students the opportunity to gain hands-on clinical experience through job shadowing in a variety of health care settings. Higher level, critical thinking is exercised as students develop patient care skills and complete research within the context of each clinical area. Internships are available in medicine, nursing, veterinary medicine, mortuary science, radiology, dentistry, physical therapy, and others.

Instructor approval is necessary prior to registration and is determined by an application process. Upcoming juniors and seniors who have successfully completed prerequisites, exhibited strong personal and academic maturity, and have an earnest desire to explore a medical career are encouraged to apply. This course meets the state framework requirements to be designated an honors class and is eligible for the additional percentage point weighting. Refer to the section of the Curriculum Guide regarding grade weighting.

5528H Nursing Education Honors

1 term - 1 credit

12

Prerequisites: Health Science Education, Medical Therapeutics.

Required: Students registered for Nursing Education must also register for Clinical Internship.

Recommended: Biology and Chemistry

Nursing education includes a variety of knowledge and skills necessary to become a health care worker. This course meets all federal and state requirements for a certified nurse's aid. The clinical internship is incorporated into this course. A total of 100 hours are required for the Tennessee state test for nurses' aide. This clinical internship must be completed in a long-term care facility. Additional hours are implemented in the classroom and clinical settings upon completion of this course. A student may enroll in postsecondary education or enter the work force in an entry-level position. This course meets the state framework requirements to be designated an honors class and is eligible for the additional percentage point weighting. Refer to the section of the Curriculum Guide regarding grade weighting.

HOSPITALITY AND TOURISM

Food and Beverage Services

5979 Culinary Arts I 1 term - 1 credit 10, 11

The first level of Culinary Arts prepares students for gainful employment and/or entry into post-secondary education in the food production and service industry. Content provides students the opportunity to acquire marketable skills by examining both the industry and its career opportunities and by developing food preparation and service and interpersonal skills. Laboratory facilities and experiences, which simulate commercial food production and service operations, offer school-based learning opportunities.

5387 Culinary Arts II (Teacher approval required) 1 term – 2 blocks, 2 credits 10, 11, 12

Prerequisite: Culinary Arts I

This course, which is the second level of Culinary Arts, involves students operating a small restaurant in school that services faculty, staff, and students several days per week. The recipe, menus, prices, ordering procedures, and any other related items are done by the students. Significant focus on collaborative learning with other courses takes place. This course is an advanced level course in terms of work expectations and student responsibility.

5981 Culinary Arts III (Teacher approval required)

This course is a continuation of Culinary Arts II. It is an advanced level course that may be taken for one or two credits, with consideration and approval for flexibility with the student's schedule taken into account as part of the class.

HUMAN SERVICES

Cosmetology

5983 Principles of Cosmetology 1 term - 1 credit 10, 11

This is the first level of cosmetology, and it prepares students with work-related skills for advancement into the Design Principles of Cosmetology course. Content provides students the opportunity to acquire basic fundamental skills in both theory and practical applications of leadership and interpersonal skill development. Content stresses safety, environmental issues, and protection of the public and designers as integrated with principles of hair design, nail structure, and cosmetic procedures. Laboratory facilities and experiences simulate those found in the cosmetology industry.

5986 Design Principles of Cosmetology 1 term – 2 blocks, 2 credits 11, 12

Prerequisite: Principles of Cosmetology

This is the second level of cosmetology and prepares students for work-related skills and advancement into the Chemistry of Cosmetology course. Content provides students the opportunity to acquire knowledge and skills in both theory and practical application. Advanced knowledge and skills in hair design, nail artistry, and cosmetic applications will be enhanced in a laboratory setting, which duplicates cosmetology industry standards. Upon completion and acquisition of 600 hours, students are eligible to take the Tennessee Board of Cosmetology manicuring examination for a Tennessee Manicure License.

5984 Chemistry of Cosmetology (Teacher approval only) 1 term – 2 blocks, 2 credits 12

Prerequisite: Design Principles of Cosmetology

This is the advanced level of cosmetology and prepares students to perform work-related services using chemical in the cosmetology industry. Content provides students the opportunity to acquire foundation skills in both theory and practical applications. Laboratory facilities and experiences will be used to simulate cosmetology work experiences. Upon completion and acquisition of 1500 hours, students are eligible to take the Tennessee State Board of Cosmetology examination for a Tennessee Cosmetology License. Upon completion and acquisition of 600 hours, students are eligible to take the Tennessee State Board of Cosmetology Manicuring examination for a Tennessee Manicuring License.

Social Health Services

5603 Family and Consumer Science 1 term - 1 credit 10, 11, 12

Formerly titled Home Economics, this is a comprehensive course that provides instruction in all home economics subject areas, including decision -making, interpersonal relationships, personal appearance and wardrobe planning, clothing care, interior design principles, simple sewing, basic nutrition and food preparations. The Family, Career and Community Leaders of America (FCCLA) Club is part of this class.

5625 Child and Lifespan Development 1 term - 1 credit 11, 12

Child and Lifespan Development prepares students to understand the physical, social, emotional, and intellectual growth and development throughout the lifespan. Experiences such as laboratory observations and laboratory participation will enhance the learning process. Instructional content includes child development theories and research: prenatal development; infants and toddlers; preschool years; middle childhood, adolescence; adulthood; geriatrics; careers; and leadership, citizenship, and teamwork.

Family, Career and Community Leaders of America (FCCLA), the co-curricular student organization, provides students with opportunities for leadership development, personal growth, and school/community involvement.

5623 Life Connections

1 term - 1 credit

12 only

This course is designed for upperclassmen who want to learn practical skills for living on their own. Students will be involved in decision-making and goal-setting activities related to adult living. Topics include personal relationships, time and money management, planning for future credit, savings and investments, clothing upkeep, healthy eating, food shopping on a budget, and simple meal preparation.

Dietetics and Nutrition**5603 Family and Consumer Science**

1 term - 1 credit

10, 11, 12

Formerly titled Home Economics, this is a comprehensive course that provides instruction in all home economics subject areas, including decision -making, interpersonal relationships, personal appearance and wardrobe planning, clothing care, interior design principles, simple sewing, basic nutrition and food preparations. The Family, Career and Community Leaders of America (FCCLA) Club is part of this class.

5609 Nutrition and Foods

1 term - 1 credit

11, 12

Nutrition and Foods is a specialized course designed to help students understand the nutrient value, appetite appeal, social significance, and cultural aspects of food. Students will examine the role of nutrition in the prevention of health conditions, such as obesity, and the promotion of optimal body performance throughout the life span. The course offers students opportunities to develop skills in the safe and sanitary selection, preparation, storing, and serving of food; meal management to meet individual and family nutrition needs across the life span; and optimal use of food resources. Instruction includes academic integration and technology applications. Careers in nutrition and food industries will be explored.

Family, Career and Community Leaders of America (FCCLA), the co-curricular student organization, provides students with opportunities for leadership development, personal growth, and school/community involvement.

3433 Psychology

1 term - 1 credit

10, 11, 12

This course will explore human behavior. Students will study how emotions, gender, stress, socio-cultural, and socioeconomic factors influence their decision-making process. Students will examine different learning styles, problem-solving techniques, and psychological tests.

INFORMATION TECHNOLOGY

Web/Multimedia Management/Webmaster

5891 Computer Applications

1 term - 1 credit

10, 11, 12

This course is designed to develop computer technology skills. Students will use a variety of computer software and hardware tools and features of an electronic information network. Students will explore the social, business, and ethical issues of using computer technology. The students will develop skills that will assist them with efficient production of word processing documents, spreadsheets, databases, and presentations. *(This course requires a computerized workstation for each student with operating system, word processing, database, spreadsheet, presentation, and networking resident software.)*

5897 Interactive Multimedia Presentation

1 term – 1 credit

10, 11

The student will apply keying, typography, layout and design skills in this course. The student will be proficient in using interactive multimedia tools to develop electronic presentations. Creative design, persuasive communications, and language arts skills are applied through research, evaluation, validation, written, and oral communication. Typography, layout and design guidelines are applied. Copyright laws and ethical practices are reinforced in creating and formatting various presentations that require imported data/graphics, digital, audio, and video clips. Team development will also be stressed as students work on multimedia project(s). Laboratory facilities and experiences simulate those found in business and industry.

6100 Web Page Design I

1 term - 1 credit

10, 11, 12

This course prepares students with work-related skills for advancement into postsecondary education or industry. Course content includes exposure to basic Web Design and the dynamics of networking/Internetworking, Web hosting and Web design in e-commerce. The course content provides students the opportunity to acquire fundamental skills in both theory and practical application of Web Design and of leadership and interpersonal skill development. Laboratory facilities and experiences simulate those found in the Web Page Design and construction industry.

TRANSPORTATION, DISTRIBUTION AND LOGISTICS

Automotive Technology

Courses in the transportation area of interest may be taken in any order, given that the required prerequisites have been completed.

5879 Maintenance and Light Repair I

1 term - 1 credit

10, 11, 12

Prerequisite: Transportation Core

The Maintenance and Light Repair I (MLR I) course prepares students for entry into Maintenance and Light Repair II. Students explore career opportunities and requirements of a professional service technician. Content emphasizes beginning transportation service skills and workplace success skills. Students study safety, tools, equipment, shop operations, basic engine fundamentals, and basic technician skills. Upon completing all of the Maintenance and Light Repair courses, students may enter automotive service industry as an ASE Certified MLR Technician.

Hours earned in the Maintenance and Light Report courses may be used toward meeting National Automotive Technicians Education Foundation (NATEF) standards and Tennessee Department of Education standards. NATEF requires that 95% of the P-1 tasks, 80% of the P-2 tasks, and 50% of the P-3 tasks will be accomplished. These tasks are notated in these standards.

5880 Maintenance and light Repair II

1 term - 2 credits

10, 11, 12

Prerequisites: Maintenance and Light Repair I

The Maintenance and Light Repair II (MLR II) course prepares students for entry into Maintenance and Light Repair III. Students study automotive general electrical systems, starting and charging systems, batteries, lighting, and electrical accessories. Upon completing all of the Maintenance and Light Repair courses, students may enter automotive service industry as an ASE Certified MLR Technician.

Hours earned in the Maintenance and Light Report courses may be used toward meeting National Automotive Technicians Education Foundation (NATEF) standards and Tennessee Department of Education standards. NATEF requires that 95% of the P-1 tasks, 80% of the P-2 tasks, and 50% of the P-3 tasks will be accomplished. These tasks are notated in these standards.

5881 Maintenance and Light Repair III

1 term - 2 credits 11, 12

Prerequisites: Maintenance and Light Repair I and II

The Maintenance and Light Repair III (MLR III) course prepares students for entry into Maintenance and Light Repair IV. Students study and service suspension and steering systems and brake systems. Upon completing all of the Maintenance and Light Repair courses, students may enter automotive service industry as an ASE Certified MLR Technician.

Hours earned in the Maintenance and Light Report courses may be used toward meeting National Automotive Technicians Education Foundation (NATEF) standards and Tennessee Department of Education standards. NATEF requires that 95% of the P-1 tasks, 80% of the P-2 tasks, and 50% of the P-3 tasks will be accomplished. These tasks are notated in these standards.

5882 Maintenance and Light Repair IV 1 term – 2 credits 12

Prerequisites: Maintenance and Light Repair I, II, and III

The Maintenance and Light Repair IV (MLR IV) course prepares students for entry into the automotive workforce or into post secondary training. Students study and service automotive HVAC systems, engine performance systems, automatic and manual transmission/transaxle systems, and practice workplace soft skills. Upon completing all of the Maintenance and Light Repair courses, students may enter automotive service industry as an ASE Certified MLR Technician.

Hours earned in the Maintenance and Light Report courses may be used toward meeting National Automotive Technicians Education Foundation (NATEF) standards and Tennessee Department of Education standards. NATEF requires that 95% of the P-1 tasks, 80% of the P-2 tasks, and 50% of the P-3 tasks will be accomplished. These tasks are notated in these standards.

Collision Repair Technology

5812 Transportation Core 1 term - 1 credit 10, 11

The Transportation Core course prepares students for entry into all subsequent transportation courses. Students explore career opportunities and requirements of a professional service technician. Content emphasizes beginning transportation service skills and workplace success skills. Students study safety, tools, equipment, shop operations, and basic technician skills. Upon completing this course, students may enter automotive service technology, collision repair and refinish technology, or aviation maintenance.

6062 Collision Repair: Non-Structural 1 term – 2 blocks, 2 credits 10, 11, 12

Prerequisites: Transportation Core, Algebra I, Physical Science, Principles of Welding (may be concurrent with Welding)

Collision Repair: Non –Structural is a course that prepares students to analyze non-structural collision damage to a vehicle, determine the extent of the damage and the direction of impact, initiate an appropriate repair plan, and correctly use equipment to fit metal to a specified dimension within tolerances. Course content includes metal finishing, body filling, and glass panel replacements. The course prepares students for entry-level employment and advanced training in collision repair technology, and post-secondary education. Students completing the Collision Repair: Non-Structural are eligible to take the ASE written examination for Non-Structural Analysis and Damage Repair.

6064 Collision Repair: Structural 1 term - 2 blocks, 2 credits 11, 12

Prerequisites: Transportation Core and Non-Structural

Collision Repair: Structural is a course that prepares students to analyze structural collision damage to a vehicle, determine the extent of the damage and the direction of impact, initiate an appropriate repair plan, and correctly use equipment to fit metal to a specified dimension within tolerances. Course content includes repairs to frames and glass. The course prepares students for entry level,

employment and advanced training in collision repair technology, and post-secondary education. Students completing the Collision Repair: Structural are eligible to take the ASE written examination for Structural Analysis and Damage Repair.

6063 Collision Repair: Painting and Refinishing 1 term – 2 blocks, 2 credits 11, 12

Prerequisite: Transportation Core, Structural, and Non-Structural

Collision Repair: Painting and Refinishing is a course that prepares students to use plastics and adhesives in the repair and refinish processes and to apply automotive paint to a vehicle. Students learn to diagnose automotive paint finish problems and to perform the appropriate manufacturer-required techniques and processes to refinish the affected area or the complete vehicle. Course content provides the student with training in mixing, matching, and applying paint and finish to vehicles. Course content includes the application of plastics and adhesives in the repair and refinishing process. The course prepares students for entry-level employment and advanced training in collision repair technology, and post-secondary education. Students completing the Collision Repair: Painting and Refinishing are eligible to take the ASE written examination for Paint and Refinish and for Plastics and Adhesives. This course offers a National Industry Certification through a nationally recognized examination.

EARLY DISMISSAL

Early Dismissal

No Credit

12th grade only

An early dismissal option is available to twelfth grade students who meet specified criteria. Only those twelfth grade students who are meeting graduation requirements and completing a program of study and do not need the elective credit course are eligible for this option. This option is not available to any student who needs all 10 credits or more to graduate. The option must be requested one term at a time. A student must see his/her counselor for the application and approval.

Early Dismissal is currently allowed, for students who qualify, 5th period in the fall semester and possibly 4th and 5th period in the spring semester.

Parents and students are required to complete paperwork requesting Early Dismissal from the guidance office. This paperwork must be signed by both the parents and student and be notarized by a Notary Public before it is returned to guidance and Early Dismissal is placed on the student's schedule.

A GLOSSARY OF SOME HIGH SCHOOL TERMS

ATTENDANCE: Regular attendance is extremely important. Missing more than ten minutes of a class is recorded as an absence. The student planner explains the Board of Education attendance policies in detail. Students need to become familiar with this policy.

MODIFIED BLOCK SCHEDULING: Although the academy is not on a block schedule, the main campus is in this manner. Students take foreign language classes year-long for one credit. Students take Algebra II and English in grades 10 and 11 year-long for two credits. Algebra II consists of two terms, with the fall semester serving as a review of Algebra I and the beginning work of Algebra II. For 10th and 11th grade English, students earn a content reading credit in the fall semester and the official English credit in the spring semester

CREDIT: Students who successfully complete a course earn one credit. Students can earn up to ten credits per year, and students must earn at least 28 credits in order to graduate. Students are expected to make steady progress each year:

- Freshmen must have 5 credits to become sophomores.
- Sophomores must have 12 credits to become juniors.
- Juniors must have 20 credits to become seniors.

EXTRACURRICULAR ACTIVITIES: High schools offer many clubs and sports for students, and students are strongly urged to participate. Students who join clubs and activities or participate in athletics make better grades and develop good leadership and decision-making skills.

FEE WAIVERS/FREE AND REDUCED LUNCH PROGRAM: Parents who may qualify are encouraged to apply for federal assistance through the Fee Waiver/Free and Reduced Lunch program. Forms are distributed to all students the first day of school.

G.P.A.: GPA is an abbreviation for “grade point average.” Please refer to the grades section of the Curriculum Guide for more information.

PREREQUISITE: A prerequisite is a class that must be completed successfully BEFORE the next class in sequence can be taken. Example: Algebra I must be passed before Algebra II can be taken; therefore Algebra I is a prerequisite to Algebra II. Prerequisites are listed in the course descriptions.

ELECTIVE FOCUS/PROGRAM OF STUDY: These are interchangeable terms that relate the concept of a student completing at least three units in a related academic or Career Technical Education (CTE) area. The State Board of Education’s “High School Policy” requires that all students, beginning with the 9th grade class of 2009-2010, complete an approved academic elective focus or a CTE program of study.