

GREENBRIER HIGH SCHOOL

Registration Handbook

and

Course Descriptions

2017-2018



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Greenbrier, TN 37073
(615) 643-4526
www.rcstn.net

The mission of Greenbrier High School is to promote a
community
of productive citizens who value excellence and responsibility
while learning the necessary skills for life after high school.

Graduation Requirements

<u>Core</u>	<u>Curriculum</u>	<u>Credits</u>
English		4
Mathematics		4
Science		3
Social Studies		3
Wellness		1
Physical Education		.5
Personal Finance		.5
Foreign Language		2
Fine Arts		1
Focus Credits		3

**Minimum Total required to graduate = 26 credits (19 Core credits + 3 focus credits + 4 elective credits.
See Graduation Requirements Table on the next page.)**

***Students must take the ACT to graduate.**

****Students must pass the Civics test through US Government class to meet graduation requirements.**

If the focus credits are completed in the areas of Fine Arts, Humanities, Math and Science, ROTC, or other as determined by the Board of Education, three additional classes beyond the state required core courses must be completed. This is known as an “Elective Focus.” If a student chooses to complete the three focus credits in a Career & Technical cluster, it is known as a “Program of Study.” Programs of Study have specific requirements and suggested plans of accomplishment. (See page 11 and following). If there are additional questions, feel free to contact a guidance counselor to ensure the correct selections.

Humanities Focus

Students must complete all four required English credits each year and the required three history credits for graduation. To complete a humanities focus, students must complete a combination of three electives: English, history, or social sciences in addition to the required courses for graduation. (* Courses required for AP courses)

<u>Year</u>	<u>Required Courses</u>	<u>Elective Courses for Focus</u>
Freshman:	<ul style="list-style-type: none">• English 9/Advanced English 9• World History	Creative Writing Psychology/ Dual Psychology
Sophomore:	<ul style="list-style-type: none">• English 10/Advanced English 10	Sociology/Dual Sociology
Junior:	<ul style="list-style-type: none">• English 11/Advanced English 11• AP Language and Composition• U.S. History• AP U.S. History	Spanish 3 Contemporary Issues (AP Hist.) AP Lang. and Comp. Seminar AP Lit. and Comp. Seminar
Senior:	<ul style="list-style-type: none">• English 12• U.S. Govt./ Econ.• AP Literature and Composition• Dual English	AP Spanish

Math and Science Elective Focus

Elective Focus for Math and Science may be achieved by taking any combination of 3 additional math and science classes after completing required courses. It may be 3 extra math classes, 3 extra science classes, OR a combination of 3 extra math or science classes.

Graduation Requirements Table

Graduation Requirements (19 required)	Elective Focus (3 Credits required above core or 3 units in same program of study)
<p>English – 4 units</p> <p>___ English 9 ___ English 10 ___ English 11 ___ English 12</p>	<p>Elective Focus: Fine Arts Humanities Math & Science ROTC Other – Determined by BOE</p>
<p>Math – 4 Units (at least one each year)</p> <p>___ Algebra I ___ Geometry ___ Algebra II ___ Finite Math or ___ Bridge Math or ___ Statistics or ___ Adv. Alg. Trig or ___ Precalculus</p>	<p>Career & Technical Program of Study (Pick one, 3 Credits in that) Agriculture (GHS) Arts & Communication (SHS) Construction Core (SHS) Cosmetology (GHS) Culinary Arts (SHS) Diversified Technology (GHS – Business & Tech Engineering) Health Science (GHS) Family & Consumer Science (GHS) Manufacturing (SHS) Marketing (GHS) Transportation Core (SHS)</p>
<p>Science – 3 Units (1 credit must be a lab science)</p> <p>___ Physical Science ___ Biology ___ Chemistry or Physics</p>	<p>Elective Focus: _____ Courses: _____ _____ _____</p>
<p>Social Studies – 3 Units</p> <p>___ World History ___ U.S. History ___ Economics & ___ U.S. Government</p>	<p>_____</p> <p>_____</p> <p>_____</p>
<p>Lifetime Wellness – 1 Unit</p> <p>___</p>	<p>_____</p> <p>_____</p>
<p>Foreign Language & Fine Art – 3 units</p> <p>___ Spanish 1 ___ Spanish 2 ___ Fine Art Credit: _____</p>	<p>Other Electives:</p> <p>_____ _____ _____ _____ _____ _____ _____</p>
<p>P.E. Elective (.5 Unit) ___</p>	<p>_____ _____ _____</p>
<p>Personal Finance (.5 Unit) _____</p>	<p>_____ _____</p>
<p><i>Minimum</i> 26 total credits to graduate</p>	

Class Ranking and Graduating with Honors

Grade Point Averages (GPA's) will be computed based on the Robertson County Board of Education Policy. A complete copy of GPA and Class Rank procedure is available in the Guidance Office.

Testing

The following assessments are required of all students (unless noted by class)

End of Course Tests: Students must take EOC tests for Algebra I and II, Biology, Chemistry English 9, 10, and 11, Geometry and US History

ACT: Provided for all Junior Students

The following Assessments are encouraged and provide multiple benefits for the school and the student.

PSAT: Provides information for predicting success in higher level courses including AP classes.

ASVAB: Provides information for assessing academic ability and correlates that information with career areas.

Duplicating Courses

Do not register for a course for which you have already received credit. Duplication of courses will result in the loss of credit. It is the student's responsibility to avoid the duplication of classes. Classes which are required to be repeated due to failure will result in two grades being posted for the class. The failing grade as well as the new grade will be recorded on the student transcript.

Grade Level Classification

The total number of credits required to move to the next grade level are as follows:

<u>Grade</u>	<u>Credits</u>
10	6
11	12
12	20

Grading System

The Robertson County School System uses a numerical grading scale for reporting student progress. A grade of 70 or above is passing. A grade of 69 or below is failing.

93-100	A	Outstanding
85-92	B	Above Average
75-84	C	Average
70-74	D	Below Average
69 & Below	F	Unacceptable

Grade Reporting

Student achievement is reported every 9 weeks of the school year in the form of a report card. This written report contains attendance information as well as the academic progress in each class. Students are given progress reports at approximately the 4 ½ week point of the 9 week grading period. In addition to academic progress, these reports may contain information regarding student attendance and/or behavior.

Course Descriptions

LANGUAGE ARTS – ENGLISH

English for freshmen, sophomores, juniors, and seniors is taught in sequence. When a student fails English in the ninth grade; it must be repeated in summer school to be able to advance to 10th grade English the next year. Starting in the ninth grade, students may select an advanced English class designed for the college bound student. It is the student's responsibility to obtain and complete a copy of the summer reading list.

** ENGLISH 9 3001 -- 1 credit; concentrated skills in grammar, writing, and reading selected literature including some type of research. Literary genres will be emphasized. REQUIRED SUMMER READING FOR ALL 9th GRADERS.

** ENGLISH 10 3002 -- 1 credit; concentrated study in grammar, vocabulary, and writing. Literature emphasis will be in drama and the short story with some outside reading required.

** ENGLISH 11 3003 -- 1 credit; grammar and a study of contemporary and American literature.

** ENGLISH 12 3005 -- 1 credit; advanced skills in grammar, vocabulary, and writing. Literature emphasis is a survey of British literature with some outside reading required.

LANGUAGE ARTS – ADVANCED

** ENGLISH 9 ADVANCED 3001 -- 1 credit; advanced skills in accelerated grammar, writing, and reading. Students must be willing to devote extra time to outside reading, projects, and essay writing. It is the student's responsibility to obtain & complete summer reading list.

RECOMMENDED FOR: College-bound students

ENROLLMENT: Enrollment is based on teacher recommendations after careful examination of student data collected from previous student assessments. These include EXPLORE, TCAP, and TVAAS from grades 3-8.

** ENGLISH 10 ADVANCED 3002 -- 1 credit; advanced skills in grammar, writing, in-depth reading, and a research paper. It is highly recommended to have a B average in English 9 Advanced or a teacher recommendation due to the rigorous content. Students must be willing to devote extra time to outside reading (one book per 9-week period) and essay writing. It is

the student's responsibility to obtain & complete summer reading list (maximum 7 books /minimum 3 books).

RECOMMENDED FOR: College-bound students, 3.0 GPA

PREREQUISITE: Eng 9 Advanced or teacher recommendation

**ENGLISH 11 ADVANCED 3003 -- 1 credit; advanced skills in grammar, writing, selected American literature, and a research paper. It is highly recommended to have a B average in English 10 Advanced or a teacher recommendation due to the rigorous content. Students must be willing to devote extra time to outside reading. It is the student's responsibility to obtain and complete the summer reading list.

RECOMMENDED FOR: College-bound students, 3.0 GPA

PREREQUISITE: Eng 9 Adv

**ADVANCED PLACEMENT ENGLISH LANGUAGE & COMPOSITION 3014 -- 1 credit; this course is offered to junior students who have completed junior English. It is recommended to students who score 23 or higher on the ACT. Students will read works written for a variety of purposes. At the end of the course, students may take the National AP test, for a fee, to earn college credit by scoring 3, 4, or 5. This is a semester course that is a humanities elective.

RECOMMENDED FOR: 11th grade students with 23 on ACT English

PREREQUISITE: English 10 or Advanced English 10

**ADVANCED PLACEMENT ENGLISH LITERATURE & COMPOSITION 3013 --2 credits; students who take this course will read and write college level material. At the end of this course, students may take the National AP test, for a fee, to earn college credit by scoring 3, 4, or 5. This is a one-year course in which the first semester is a humanities elective and the second semester counts as senior English credit.

RECOMMENDED FOR: 12th grade students with 23 on ACT English

PREREQUISITE: English 11 or Advanced English 11

LANGUAGE ARTS – SPANISH

Two years of the same foreign language is required for Tennessee Board of Regents Colleges.

** SPANISH I 3021 -- 1 credit; fundamentals of the Spanish vocabulary interspersed with certain knowledge of the culture and civilization of countries where Spanish is spoken and some basic grammar.

****SPANISH II 3022 -- 1 credit;** study in understanding, speaking, reading, and writing Spanish.

PREREQUISITE: Spanish I

****SPANISH III 3023 -- 1 credit;** This class is more advanced speaking, listening, reading and writing in Spanish. Students will be immersed in advanced vocabulary and grammar.

PREREQUISITE: Spanish II

****ADVANCED PLACEMENT SPANISH LANGUAGE 3025 –1 credit;** an advanced study of Spanish language concepts that prepares the student to take the AP Spanish Language Examination. Many colleges and universities give advanced placement credit for successful completion of the course and a minimum score on the examination.

PREREQUISITE: Spanish I, II, III and Teacher Recommendation

Registration and fees are required for all AP Exams.

MATHEMATICS

Math is taught in sequence. When a student fails a math class, it should be repeated to be able to advance to the next class. One math class must be taken and passed every year: Algebra I, Algebra II, Geometry, and one higher level course.

****TIER III MATH INTERVENTION – 1 credit.** This elective course is designed to support students' learning of the mathematical skills necessary to be successful in high school mathematics courses.

****ALGEBRA 1A/B - 2 credits:** Emphasis on equation solving with linear, exponential and quadratic equations, systems of equations, polynomial expressions, and data analysis. The course includes modeling with mathematics. Algebra 1A is considered an elective credit; students receive their math credit by successfully completing Algebra 1B.

****ADVANCED ALGEBRA I - 1 credit** This advanced course includes the same material included in the two semester class in one semester. In addition to increased pacing for the course, there is more emphasis on modeling and application. Students should have a strong math background and be able to grasp concepts quickly.

****GEOMETRY - 1 credit** Emphasis is on application of geometric concepts, deductive reasoning using postulates, theorems, and algebraic skills.

****ADVANCED GEOMETRY - 1 credit** Course contains the same material as Geometry, with a greater emphasis on proof, higher order reasoning, and application problems.

****ALGEBRA II -** The course is a broadening of algebra skills. Topics include statistics and probability, complex numbers, sequences and series, polynomial, quadratic, logarithmic, and trigonometric functions, including graphing of the functions. Students will be required to use a graphing calculator.

****ADVANCED ALGEBRA II-1 credit** This course contains the same material as Algebra II, with more in depth study, complicated problem solving, and modeling with mathematics.

****PRECALCULUS- 1 credit** Precalculus is designed to prepare students for AP Calculus AB by surveying a multitude of functions, their properties, the algebra of each, and their graphs without the use of technology. Functions studied include linear, polynomial, rational, exponential, logarithmic, trigonometric, inverse trigonometric, and piecewise-defined functions. Students will also study the language of functions (domain and range, odd and even, periodic, symmetry, zeros, intercepts, etc.), learn the values of the trigonometric functions at 0, $\pi/6$, $\pi/4$, $\pi/3$, $\pi/2$, and their multiples, and apply this knowledge to equation solving with trigonometric functions.

****AP CALCULUS AB - 2 credits** Course consists of a full academic year of work and is comparable to a university level scientific calculus course. It is expected that students who take an AP course in calculus will seek college credit, college placement, or both from institutions of higher learning by for and taking the AP Exam in May.

Calculus AB is primarily concerned with developing the students' understanding of the concepts of calculus and providing experience with its methods and applications. Course work includes derivatives, integrals, limits, approximation, and applications and modeling. Students should have demonstrated mastery of material from courses that are the equivalent of four full years of high school mathematics, including a Precalculus course other than dual enrollment and must have teacher recommendation to take the course.

ENROLLMENT: Enrollment in advanced courses is based on academic placement after careful examination of student data collected from previous student assessments. These include EXPLORE, TCAP, and TVAAS from grades 3-8. Decisions are strictly made to allow for the best opportunity to be successful in high school.

****STATISTICS 3136 -- 1 credit;** An Introduction to Statistics includes the following topics: Descriptive statistics including measures of central location and variation, frequency distributions, histograms, and frequency polygons. Probability relating to elementary sample spaces, events, conditional probability, discrete and continuous type random variables, mathematical expectation, and the normal probability. Inferential statistics relating to the confidence intervals and hypothesis tests related to the mean and proportion.

RECOMMENDED FOR: Seniors

PREREQUISITE: Algebra I, Algebra II, and Geometry

**** BRIDGE S.A.I.L.S. MATH 31815 --1 credit;** this math course is recommended for seniors who scored <19 on the ACT test. This course is in alignment with the Developmental Studies Program for Mathematics where the curriculum has been organized into groups of mathematical skills to give students an opportunity to improve math skills prior to entering the workforce.

PREREQUISITE: Algebra I, Algebra II, and Geometry

****FINITE MATH 3182 --1 credit;** this math course is recommended for seniors who scored >20 on the ACT Test, but have not taken any advanced math courses his/her high school career. It is designed to prepare students for the workforce.

PREREQUISITE: Algebra I, Algebra II, and Geometry

SCIENCE

Three credits in science are required for high school graduation: Biology, Chemistry I or Physics, and one other lab science.

**** PHYSICAL SCIENCE 3202 -- 1 credit;** the study of the relationship between matter and energy. The course provides the basic foundation for chemistry and physics through class work, hands-on laboratory investigations, individual studies, and group activities.

Recommended Co-Requisite: Algebra I

**** BIOLOGY I 3210 -- 1 credit;** the study of of living things including basic cell processes and the interdependence and interactions of living things within their environment. This study involves class work, hands-on activities, and the laboratory investigations to cover and reinforce the Biology I course standards while providing preparation for the State Biology End of Course Exam.

RECOMMENDED

PREREQUISITE: Physical Science

**ECOLOGY 3255 -- A study of individual organisms and their roles in environmental populations, communities, ecosystems and biomes particularly the role of human impact and ecosystem sustainability.

RECOMMENDED PREREQUISITE: Physical Science, Biology, and Chemistry

College Prep Class: Satisfies requirements for Math/Science Elective Focus.

** CHEMISTRY I 3221 -- 1 credit; the study of matter (elements, compounds, and mixtures) and its interactions. This study involves class work and laboratory activities designed to reinforce the concepts while providing preparation for the State Chemistry End of Course Exam.

RECOMMENDED PREREQUISITES: Physical Science, Algebra I

** BIOLOGY II 3216 -- 1 credit; a study of the major specialty areas of biology including cells, interdependence, the flow of matter and energy, heredity, biodiversity, comparative anatomy and zoology, and botany. The students will explore these concepts through an inquiry approach involving class work, hands-on-activities, and lab investigations designed to cover and reinforce the Biology 2 course standards.

PREREQUISITE: Biology I and Chemistry

College Prep Class: Satisfies requirements for Math/Science Elective Focus

** CHEMISTRY 2 3224 -- 1 credit; the continuation of Chemistry 1 with a greater in depth study of the fundamental makeup of matter, the interactions of matter, and the energy of such interactions.

PREREQUISITE: Chemistry 1 and Algebra II

College Prep Class: Satisfies requirements for Math/Science Elective Focus

** PHYSICS 3231 -- 1 credit; the study of energy in its various forms including mechanical, heat, light, sound, electricity, magnetism and nuclear. Laboratory activities emphasize accuracy and precision of data collection and analysis.

RECOMMENDED PREREQUISITE: Physical Science, Algebra II, or Pre-Calculus

College Prep Class: Satisfies requirements for Math/Science Elective Focus

(Seniors who have scored a 22 or higher on the mathematics portion of the ACT and have satisfied all science requirements, will have the option to count Physics as a math elective.)

**** HUMAN ANATOMY AND PHYSIOLOGY 3251--1 credit:** This course is a study of the body's structures and respective functions at the molecular/biochemical, cellular, tissue, organ, systematic and organism levels. Students explore the body through laboratory investigations, model diagrams, and/or comparative studies of the anatomy of other organisms.

PREREQUISITE: Biology 1 and Chemistry 1

College Prep Class: Satisfies requirements for Math/Science Elective Focus OR Satisfies requirements for Health Science Elective Focus.

SOCIAL STUDIES

Students are required to complete three credits in social studies and ½ credit in personal finance for graduation. It must include UNITED STATES HISTORY, UNITED STATES GOVERNMENT, ECONOMICS, AND ONE CREDIT IN WORLD HISTORY.

**** UNITED STATES GOVERNMENT 3417 -- 1/2 credit;** the functions of different types of governments on the local, state, and national levels.

**** ECONOMICS 3431 -- 1/2 credit;** Attempts to improve the quality and understanding of individual choices by studying the choice making process.

**** SOCIOLOGY 3432 1 credit;** is the study of man and human groups; cultural anthropology.

**** UNITED STATES HISTORY 3416 -- 1 credit;** a survey of the history of the American nation from the Industrial Age to the present.

**** ADVANCED/ADVANCED PLACEMENT UNITED STATES HISTORY 3440 -- 1 credit;** An advanced study of general American history concepts from the beginnings of American history to the present. Additional points are received for this advanced level class, along with multiple extra credit movies and field trips to enhance the visual experience of American history. Students can earn college credit if they take the US History AP Test and score the minimum score. Registration and fees are required for all AP exams.

PREREQUISITE: World History and Geography

**** WORLD HISTORY AND GEOGRAPHY 3415 -- 1 credit;** fast paced survey of the people from major countries of the world and their contribution to society.

****CONTEMPORARY ISSUES 3435-- 1 credit;** The intent of the course is to provide basic background and foundational information to help in understanding the world that we live in today. It will examine various social, political, economic, religious, and cultural events in order to better comprehend multiple perspectives on the world today. There will be a major focus on studying current events (their origins and causes).

FINE ARTS

**** VISUAL ART I 3501 -- 1 credit;** this course is designed to introduce the beginning art student to a diverse program of art media and creative techniques in order to develop their portfolio. Various areas to be covered such as: basic drawing, sculpture, painting, printmaking as well as art history and art criticism. Each student is required to pay an art fee.

**** VISUAL ART II 3502 -- 1 credit;** this course is a continuation of Art I. Art 2 focuses on more complex technical skill in drawing, painting, sculpture, and printmaking. Students are asked to create innovative solutions to design problems as they strive towards improving their portfolio. Each student is required to pay an art fee.

**** THEATRE ARTS-3520-- 1 credit;** This course requires after school and night time practice. Also requires the student to participate in the production of one or more plays for contest and school performance.

****CONCERT BAND-**Students will focus on the aspects of playing concert music including but not limited to: melody, harmony, rhythm, intonation, timbre, dynamics, phrasing, music vocabulary, basic singing, and sight reading skills.

****GUITAR-**This course is designed to be an introduction to guitar. Students will focus on reading music and using proper technique for the guitar. Students will learn basic concepts such as: parts of the guitar, reading the treble clef, scale patterns, and chords. No pre-requisite required.

**** MARCHING BAND/INSTRUMENTAL MUSIC 3530 --2 credits;** a course in creative exposure of instrumental music: marching drill, drill design, instrumental mastery, rhythmic studies, technical studies and concert preparation. Theory includes a study of music fundamentals,

harmonic progressions, compositional styles and stylistic elements. (9 weeks marching band and 27 weeks concert band.

** INTRO TO VOCAL MUSIC 3531 -- 1 credit; this course is designed to introduce students to choral singing by developing vocal and choral technique as it pertains to the maturing voice as well as teaching the students to read music. Students are required to purchase a costume for use for public performances. Students taking this course are highly encouraged to continue their study of the voice by taking Advanced Vocal Music.

** SHOW CHOIR/MIXED CHOIR 3531 -- 2 credits; this year-round course is a creative exposure to choral music, vocal techniques, diction, music reading, aural skills, choreography and concert preparation. Special emphasis will be placed on learning music with an advanced difficulty level. Preparation in the spring will likely include a musical production as well as a number of other public performances throughout the year. Performances will be at various locations and on the weekends and/or at night. Students are required to purchase a costume to use for public performances.

OPEN: This course is only open to 10-12 Graders who have taken the Intro to Choral Singing course and/or have been selected through an audition process.

**PIANO I 3540 -- 1 credit; This course will teach you to play the piano and introduce you to music notation and music theory. This course is for students with no piano skills or music notation skills. You will learn music theory as it will help you to understand music notation and the structure behind the music that you hear and learn to play. Students will Perform, alone and with others, a varied repertoire of music. b. Perform on piano, alone and with others, a varied repertoire of music. c. Improvise melodies, variations, and accompaniments. d. Compose and arrange music within specified guidelines. e. Read and notate music. f. Listen to, analyze, and describe music. g. Evaluate music and music performances. h. Understand relationships between music, the other arts, and disciplines outside the arts. i. Understand music in relation to history and culture.

OBJECTIVE: The objective of the group piano program for first-time keyboard students to allow students to develop functional skills to enable them to play for their own enjoyment.

Career Technical Education Programs of Study

All courses are taught at Greenbrier High School unless noted as Springfield High School Career & Technical Center (SHS)

These classes have to be taken in the proper order as listed below. Three have to be taken in the cluster to be a concentrator.

AGRICULTURE

Vet and Animal Science

- 5957 Agriscience
- 5958 Small Animal Science
- 6116 Large Animal Science
- 5961 Veterinary Science

Industry Certification: TN Specific Industry Certification Animal Science

Applied Engineering and Applied Technologies

- 5957 Agriscience
- 5944 Principles of Ag. Mechanics
- 5945 Ag Power and Equipment

BUSINESS

Business Management

- 5905 Intro to Business and Mktg.
- 5888 Business Communications and/or 5910 Accounting I
- 5889 Business Management

Office Management

- 5891 Computer Applications
- 5888 Business Communicationsr
- 5904 Advanced Computer Applications or 5889 Business Management

Industry Certification: Microsoft Office Specialist: Excel, PowerPoint, Word

Accounting

- 5905 Intro to Business and Mktg.
- 5910 Accounting I
- 5911 Accounting II
- 3136 Statistics

Banking and Finance

- 5905 Intro to Business and Mktg.
- 5910 Accounting I
- 5899 Banking and Finance

Industry Certification: National Certified Compliance Officer (NCCO)-Not Applicable at the High School level

MARKETING

Marketing Management

- 5905 Intro to Business and Mktg.
- 5931 Marketing and Mgmt. I: Principles
- 5932 Marketing and Mgmt. II: Adv. Strategies

Entrepreneurship

- 5905 Intro to Business and Mktg.
- 5931 Mktg. and Mgmt. I: Principles

-5934 Entrepreneurship

HEALTH SCIENCE- Premedical

Nursing Services

-5998 Health Science Education

-5999 Medical Therapeutics- Prerequisite Health Science Ed.

OR #5991/#3251 *Anatomy and Physiology *Also counts as science credit

(prerequisite Biol 1 & Health Science; Pre- or Co-requisite Chem 1)

#6000 Nursing Education- (Senior year only) Year-long Certified Nursing Assistant course at SHS

- **Industry Certification:** Certified Nursing Assistant (off-site testing)

Emergency Services

-5998 Health Science Education

-5995 Emergency Medical Services

-#5991/#3251 *Anatomy and Physiology *Also counts as science credit

(prerequisite Biol 1 & Health Science; Pre- or Co-requisite Chem 1)

-**Industry Certification:** Certified Emergency Medical Responder (off-site 2 days testing)

Therapeutic Services

-5998 Health Science Education-

-#5999 Medical Therapeutics-

OR #6007 *Nutrition Science and Diet Therapy- *Also counts as science credit

-#5991/#3251 *Anatomy and Physiology *Also counts as science credit

(prerequisite Biol 1 & Health Science;Pre- or Co-requisite Chem 1)

HUMAN SERVICES

Fashion Design

-3501 Visual Art 1

-6120 Foundations of Fashion Design

-6008 Fashion Design

-6009 Adv. Fashion Design

Social Health Services

-6137 Intro. to Human Studies

-6013 Lifespan Development

-6136 Family Studies

Dietetics and Nutrition

-6137 Intro. to Human Studies

-6005 Nutrition Across the Lifespan

-6007 Nutrition Science and Diet Therapy

COSMETOLOGY

Cosmetology

-(5983) Cosmetology I(Principles of Cosmetology)-Sophomore

-(5986) Cosmetology II(Design Principles of Cosmetology)-Junior

-(5984) Cosmetology III(Chemistry of Cosmetology)-Senior

Industry Certification: TN Board of Cosmetology & Barbering

TECHNOLOGY

Web Design

-6095 Computer Science Foundations

-6100 Web Design Foundations

Industry Certification: CompTIA IT Fundamentals

-6101 Web Site Development

Industry Certification: CIW Web Design Specialist

Programming

-6095 Computer Science Foundations

-6098 Coding I

Industry Certification: CompTIA IT Fundamentals(offering after completion of Coding I course)

-(TBD) Mobile App Development-Senior

Industry Certification: CompTIA A+

ENGINEERING

Engineering by Design

-5917 Foundations of Technology EBD

-5885 Technological Design EBD

-5920 Adv. Design Applications EBD

-6105 Work-Based Learning for Engineering Design EBD

CTC at Springfield High School

Automotive Maintenance and Light Repair

Residential and Commercial Construction

Digital Arts and Design

Culinary Arts

Law Enforcement Services

Diagnostic Services

Nursing Services

Exercise Physiology

Welding

ROTC

Anticipated Offerings of Career and Technical Program Clusters @ Greenbrier High School

Career & Technical Course Descriptions

FINANCE CLUSTER

ACCOUNTING

**INTRODUCTION TO BUSINESS AND MARKETING-5905-1 Credit; This course is an introductory course designed to give students an overview of the Business Management and Administration, Marketing, and Finance career clusters. The course helps Approved students prepare for the growing complexities of the business world by examining basic principles of business, marketing, and finance in addition to exploring key aspects of leadership, ethical and social responsibilities, and careers. Students' academic skills in communications, mathematics, and economics are reinforced with activities modeled in the context of business topics. Upon completion of this course, proficient students will be equipped with the foundational skills to succeed in any of the Business, Marketing, or Finance

programs of study and will be prepared to make an informed decision regarding which pathways they would like to pursue in high school. Standards in this course are aligned with Tennessee State Standards for English Language Arts & Literacy in Technical Subjects, Tennessee State Standards in Mathematics, and Tennessee Economics standards.

****ACCOUNTING I-5910-1 Credit;** 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.)

RECOMMENDED PREREQUISITES: Algebra I, Computer Applications

****ACCOUNTING II-5911-1 Credit;** Accounting II is an advanced study of concepts, principles and techniques that build on the competencies acquired in Accounting I used in keeping the electronic and manual financial records of a sole proprietorship, a partnership and a corporation. Departmental, management, cost, and not-for-profit accounting systems are explored. This course will apply the theory and practices developed in Accounting I. (Activities in this course will be completed manually and electronically. This course requires a computerized workstation for each student with accounting and spreadsheet software and tools provided.)

RECOMMENDED PREREQUISITES: Computer Applications, Accounting I

BANKING AND FINANCE

****INTRODUCTION TO BUSINESS AND MARKETING-5905-1 Credit;** This course is an introductory course designed to give students an overview of the Business Management and Administration, Marketing, and Finance career clusters. The course helps Approved students prepare for the growing complexities of the business world by examining basic principles of business, marketing, and finance in addition to exploring key aspects of leadership, ethical and social responsibilities, and careers. Students' academic skills in communications, mathematics, and economics are reinforced with activities modeled in the context of business topics. Upon completion of this course, proficient students will be equipped with the foundational skills to succeed in any of the Business, Marketing, or Finance programs of study and will be prepared to make an informed decision regarding which pathways they would like to pursue in high school. Standards in this course are aligned with Tennessee State Standards for English Language Arts & Literacy in Technical Subjects, Tennessee State Standards in Mathematics, and Tennessee Economics standards.

****ACCOUNTING I-5910-1 Credit;** 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.)

RECOMMENDED PREREQUISITES: Algebra I, Computer Applications

****BANKING AND FINANCE-5899-1 Credit;** Banking and Finance is a course designed to challenge the student with real banking and financial situations through a partnership with a local financial institution that would bring resources of mentors, seminars, and hands on experience with day-to-day operations. Completion of this course will provide students with a basis for continuing education in finance and business administration specializing in job skills in banking and financial institutions. Ethical issues will be presented in the course. (Online Computer access will be required for accessing the Internet financial markets and related software.)

RECOMMENDED PREREQUISITES: Computer Applications, Personal Finance, Financial Planning, Accounting I

PERSONAL FINANCE

****PERSONAL FINANCE-1/2 credit:** is a foundational course designed to inform students how individual choices directly influence occupational goals, future earning potential, and long term financial well-being. The standards in this course cover decision-making skills related to goal setting, earning potential, budgeting, saving, borrowing, managing risk, and investing. The course helps students meet the growing complexities of personal financial management and consumer decision making. Upon completion of this course, proficient students will understand how their decisions will impact their future financial well-being.

Personal Finance is a required course for graduation for all Tennessee high school students.

BUSINESS MANAGEMENT & ADMINISTRATION

BUSINESS MANAGEMENT

****INTRODUCTION TO BUSINESS AND MARKETING-5905-1 Credit;** This course is an introductory course designed to give students an overview of the Business Management and Administration, Marketing, and Finance career clusters. The course helps approved students prepare for the growing complexities of the business world by examining basic principles of business, marketing, and finance in addition to exploring key aspects of leadership, ethical and social responsibilities, and careers. Students' academic skills in communications, mathematics, and economics are reinforced with activities modeled in the context of business topics. Upon completion of this course, proficient students will be equipped with the foundational skills to succeed in any of the Business, Marketing, or Finance programs of study and will be prepared to make an informed decision regarding which pathways they would like to pursue in high school. Standards in this course are aligned with Tennessee State Standards for English Language Arts & Literacy in Technical Subjects, Tennessee State Standards in Mathematics, and Tennessee Economics standards.

****BUSINESS COMMUNICATION- 5888-1 Credit:** This course is designed to develop students' effective oral and electronic business communications skills. This course develops skills in multiple methods of communications, including social media, as well as electronic publishing, design, layout, composition, and video conferencing. Upon completion of this course, proficient students will be able to demonstrate successful styles and methods for professional business communications using the proper tools to deliver effective publications and presentations. Standards in this course are aligned with the Tennessee Common Core State Standards in English Language Arts and Literacy in Technical Subjects.

RECOMMENDED PREREQUISITES: Introduction to Business & Marketing (5905)

****BUSINESS MANAGEMENT-5889-1 Credit;** 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. (Specific activities will require use of Internet, word processing, and spreadsheet software.)

RECOMMENDED PREREQUISITIES: Computer Applications, Accounting I

OFFICE MANAGEMENT

****COMPUTER APPLICATIONS-5891-1 Credit;** 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.)

****BUSINESS COMMUNICATIONS-5888-1 Credit;** Business Communications is a course designed to develop students' effective oral and electronic business communications skills. This course develops skills in multiple methods of communications, including social media, as well as electronic publishing, design, layout, composition, and video conferencing. Upon completion of this course, proficient students will be able to demonstrate successful styles and methods for professional business communications using the proper tools to deliver effective publications and presentations. Standards in this course are aligned with the Tennessee Common Core State Standards in English Language Arts and Literacy in Technical Subjects.

RECOMMENDED PREREQUISITE: Computer Applications (5891)

**** ADVANCED COMPUTER APPLICATIONS-5904 -1 Credit;** This is a capstone course in which students will learn necessary skills in problem solving using current and emerging integrated technology to include a variety of input technologies in the production of professional quality business documents and presentations. The course focuses on student choice, accountability and performance. Students increase their employability by working toward the attainment of high-level skills in the areas of integrated software applications, communication skills, ethical issues, human relations, leadership, self-management, and workplace management. Students may choose areas of specialization and achieve industry certification in areas such as word processing, spreadsheet applications, multimedia presentations, schedule and contact management, etc. This course may articulate to post-secondary education. (This course requires a computerized workstation and supportive software for required applications.) PREREQUISITE: Computer Applications

OR

****BUSINESS MANAGEMENT-5889-1 Credit;** 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. (Specific activities will require use of Internet, word processing, and spreadsheet software.)

RECOMMENDED PREREQUISITIES: Computer Applications

INFORMATION TECHNOLOGY

WEB DESIGN

****INFORMATION TECHNOLOGY FOUNDATIONS-6095-2 Credits;** This is a course intended to provide students with exposure to various information technology occupations and pathways such as

Networking Systems, Programming and Software Development, and Web Design. As a result, students will complete all core standards, as well as standards in two of three focus areas. Upon completion of this course, proficient students will be able to describe various information technology (IT) occupations and professional organizations. Moreover, they will be able to demonstrate logical thought processes and discuss the social, legal, and ethical issues encountered in the IT profession. Depending on the focus area, proficient students will also demonstrate an understanding of electronics and basic digital theory; project management and teamwork; client relations; causes and prevention of Internet security breaches; and writing styles appropriate for web publication. Upon completion of the ITF course, students will be prepared to make an informed decision about which Information Technology program of study to pursue. Standards in this course are aligned with Tennessee State Standards for English Language Arts & Literacy in Technical Subjects and Tennessee State Standards in Mathematics.

****WEB PAGE DESIGN FOUNDATIONS-6100-1 Credit;** 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. (This course requires a computerized workstation and supportive software for required applications.)

PREREQUISITE: Computer Apps, Information Technology Foundations, Algebra I

****WEB SITE DEVELOPMENT-6101-1 Credit;** This course prepares students with work-related skills for advancement into postsecondary education or industry. Course content includes exposure to basic and advanced Web design, pixelated and vector-based Web graphics, Web animations, dynamics of 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 Web page construction industry. This course maps to the Certified Internet Webmaster "Site Designer" national certification examination. (This course requires access to a computerized workstation for each student with Internet connection and webpage design and imaging software.)

PREREQUISITE: Algebra I, Web Page Design Foundations

PROGRAMMING AND SOFTWARE DEVELOPMENT

****INFORMATION TECHNOLOGY FOUNDATIONS-6095-2 Credits;** This is a course intended to provide students with exposure to various information technology occupations and pathways such as Networking Systems, Programming and Software Development, and Web Design. As a result, students will complete all core standards, as well as standards in two of three focus areas. Upon completion of this course, proficient students will be able to describe various information technology (IT) occupations and professional organizations. Moreover, they will be able to demonstrate logical thought processes and discuss the social, legal, and ethical issues encountered in the IT profession. Depending on the focus area, proficient students will also demonstrate an understanding of electronics and basic digital theory; project management and teamwork; client relations; causes and prevention of Internet security breaches; and writing styles appropriate for web publication. Upon completion of the ITF course, students will be prepared to make an informed decision about which Information Technology program of study to pursue. Standards in this course are aligned with Tennessee State Standards for English Language Arts & Literacy in Technical Subjects and Tennessee State Standards in Mathematics.

PROGRAMMING AND LOGIC I- 6098-1 Credit; This is a course intended to teach students the basics of computer programming. The course places emphasis on practicing standard programming techniques and learning the logic tools and methods typically used by programmers to create simple computer

applications. Upon completion of this course, proficient students will be able to solve problems by planning multistep procedures; write, analyze, review, and revise programs, converting detailed information from workflow charts and diagrams into coded instructions in a computer language; and will be able to troubleshoot/debug programs and software applications to correct malfunctions and ensure their proper execution. Standards in this course are aligned with the Tennessee State Standards for English Language Arts Standards and Literacy in Technical Subjects and Tennessee State Standards for Mathematics.

PREREQUISITE: Computer Apps, Information Technology Foundations, Algebra I

HUMAN SERVICES

FASHION DESIGN

****VISUAL ART I**

****FOUNDATIONS OF FASHION DESIGN (TBD)—1 Credit;** *Foundations of Fashion Design* introduces students to the rich history of the fashion industry and the basic design principles that are integral to its operation. This course studies the history of the fashion industry, elements and principles of design, textile history and composition, as well as basic construction principles. Artifacts will be created for inclusion in a portfolio, which will continue to build throughout the program of study. 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.

****FASHION DESIGN-6008—1 Credit;** *Fashion Design* prepares students for further education and careers in the fashion industry. In addition to learning skills and knowledge related to the elements and principles of design, apparel manufacture and merchandising, basic marketing and product promotion, trend forecasting, and presentation, students complete a capstone project during which they design an original fashion line and create artifacts to include in a professional portfolio. Upon completion of this POS, students will be prepared for postsecondary study and careers in fashion design and fashion merchandising.

****ADVANCED FASHION DESIGN-6009—1 Credit;** *Advanced Fashion Design* is the capstone course in the *Fashion Design* program of study. This course is designed to prepare students for further education and careers in the fashion industry. Through exposure to crucial business activities such as project management and product promotion, students will acquire advanced skills related to business professionalism, ethics, policies, and communication in the fashion industry. In addition, students complete a capstone project during which they will create artifacts to include in a professional portfolio. While not required, student internships can provide an alternative route for students to master required course standards. Students who have the opportunity to participate in internships may be responsible for the following tasks: assisting in client presentations, resource updating and vendor management, assisting designers, and participating with design teams. 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.

SOCIAL AND MENTAL HEALTH SERVICES

****INTRODUCTION TO HUMAN SERVICES-TBD—1 Credit;** *Introduction to Human Studies* is a foundational course for students interested in becoming a public advocate, social worker, dietician, nutritionist, counselor, or community volunteer. This course covers the history of counseling, career investigation, stress management, mental illness, communication, and the counseling process. Artifacts will be created for inclusion in a portfolio, which will continue to build throughout the program of study.

Standards in the course are aligned with Tennessee Common Core State Standards for English Language & Literacy in Technical Subjects, as well as the Tennessee Psychology and Sociology standards, and the National Standards for Family and Consumer Sciences Education, Second Edition.

**LIFESPAN DEVELOPMENT-6013-1 Credit: Lifespan Development builds basic knowledge in human growth and development. The course standards include developmental theory, principles of growth, behavior of children from conception through adolescence, adult development and aging, and death and dying. Artifacts will be created for inclusion in a portfolio, which will continue to build throughout the program of study. Standards in the course are aligned with Tennessee Common Core State Standards for English Language Arts & Literacy in Technical Subjects, as well as Tennessee Biology I, Psychology, and Sociology standards, and National Standards for Family and Consumer Sciences Education, Second Edition.

**FAMILY STUDIES-TBD-1 Credit: Family Studies is an applied knowledge course that examines the diversity and evolving structure of the modern family. Course standards focus on the demographic, historical, and social changes of interpersonal relationships, as well as parenting, and the effect of stressors on the family. Artifacts will be created for inclusion in a portfolio, which will continue to build throughout the program of study. Standards in the course are aligned with Tennessee Common Core State Standards for English Language Arts & Literacy in Technical Subjects, as well as Tennessee Psychology, Scientific Research, Sociology, and US History standards and the National Standards for Family and Consumer Sciences Education, Second Edition.

DIETETICS AND NUTRITION COUNSELING

**INTRODUCTION TO HUMAN SERVICES-TBD—1 Credit: *Introduction to Human Studies* is a foundational course for students interested in becoming a public advocate, social worker, dietician, nutritionist, counselor, or community volunteer. This course covers the history of counseling, career investigation, stress management, mental illness, communication, and the counseling process. Artifacts will be created for inclusion in a portfolio, which will continue to build throughout the program of study. Standards in the course are aligned with Tennessee Common Core State Standards for English Language & Literacy in Technical Subjects, as well as the Tennessee Psychology and Sociology standards, and the National Standards for Family and Consumer Sciences Education, Second Edition.

**NUTRITION ACROSS THE LIFESPAN-6005-1 Credit; *Nutrition Across the Lifespan* is for students interested in learning more about becoming a dietitian, nutritionist, counselor, or pursuing a variety of scientific, health, or culinary arts professions. This course covers human anatomy and physiological systems, nutrition requirements, as well as social, cultural, and other impacts on food preparation and integrity. Artifacts will be created for inclusion in a portfolio, which will continue to build throughout the program of study. Standards in this course are aligned with Tennessee Common Core State Standards for English Language Arts & Literacy in Technical Subjects, as well as Tennessee Biology I, Chemistry I, Human Anatomy & Physiology (A&P), Scientific Research, and World Geography and the National Standards for Family and Consumer Sciences Education, Second Edition.

**NUTRITION SCIENCE AND DIET THERAPY-6007-1 Credit; *Nutrition Science and Diet Therapy* is an applied knowledge course in nutrition for students interested in the role of nutrition in health and disease. The course covers the development of a nutrition care plan as part of the overall health care process. Methods for analyzing the nutritional health of a community are explored. Finally, the relationship of diet and nutrition to specific diseases will be researched, including the role of diet as a contributor to disease and its role in the prevention and treatment of disease. Artifacts will be created for inclusion in a portfolio, which will continue to build throughout the program of study. Standards in this course align to the Tennessee Common Core State Standards for English Language Arts & Literacy in Technical Subjects, Tennessee Common Core State Standards for Mathematics, and Tennessee state

standards for Biology I, Chemistry I, Human Anatomy & Physiology (A&P), and Scientific Research, as well as the National Standards for Family and Consumer Sciences Education, Second Edition.* The following standards should be implemented throughout the course as well as suggested 30 hours of time spent in the laboratory.

COSMETOLOGY

COSMETOLOGY I (PRINCIPLES OF COSMETOLOGY)-5983-- 1 to 2 credits; students will learn basic cosmetology skills. These skills will include practical and theory work. Areas to be covered will include draping, shampooing, conditioning, manicures, pedicures, hair design, and hair sculpting. This program will also allow students to acquire hours in the field that may be transferred to a technical school for completion of the course.

OPEN: Grade 10 Only

COSMETOLOGY II (DESIGN PRINCIPLES OF COSMETOLOGY)-5986 -- 2 to 3 credits; students will be able to continue their training in the cosmetology field. Areas to be covered in this class will include the student utilizing the skills taught in Principles of Cosmetology on a client base from the local area. The new areas to be taught will include artificial nails, advanced hair sculpting, skin care, chemical texturing, hair color, and hair additions. The student will continue to acquire hours that may be transferred to a technical school.

PREREQUISITE: PRIN OF COS

OPEN: Grades 11

COSMETOLOGY III (CHEMISTRY OF COSMETOLOGY)-5984 -- 2 to 3 credits; students will once again use skills learned to work on client base from the local area. The students will also continue practice on skills taught in the previous levels. Students will be tested at a level that is required by the Tennessee State Board of Cosmetology for completion of the course. The student will continue to acquire hours that may be transferred to a technical school.

PREREQUISITE: DSGN OF COS

OPEN: Grades 12

HEALTH SCIENCE EDUCATION

**** Health Science Education -1 Credit**

Health Science Education is an introductory course designed to prepare students to pursue careers in the fields of biotechnology research, therapeutics, health informatics, diagnostics, and support services. Upon completion of this course, a student proficient in Health Science Education will be able to identify careers in these fields, compare and contrast the features of healthcare systems, explain the legal and ethical ramifications of the healthcare setting, and begin to perform foundational healthcare skills. This course will serve as a strong foundation for all of the health science programs of study.

**** Human Anatomy and Physiology # 3251 or #5991 -1 Credit ; (Science course/credit)**

Human Anatomy and Physiology is a laboratory science course that includes of an in-depth study of the body systems that maintain homeostasis from anatomical, physiological, and histological perspectives. Students explore anatomical and physiological concepts through an inquiry-based approach. Embedded standards for Inquiry and Technology & Engineering are taught in the context of the content standards for Anatomical Orientation, Protection, Support, and Movement, Integration and Regulation, Transportation, Absorption and Excretion, and Reproduction, Growth, and Development.

Pre-requisites: Biology I and Chemistry I

**** Medical Therapeutics-1 Credit**

Medical Therapeutics is an applied course designed to prepare students to pursue careers in therapeutic services. Upon completion of this course, a proficient student will be able to identify careers in therapeutics services; assess, monitor, evaluate, and report patient/client health status; and identify the purpose and components of treatments. The student will incorporate communication, goal setting, and information collection skills to be successful in the workplace.

PREREQUISITE: Health Science Education

**** Emergency Medical Services- 1 credit;**

This course focuses on First Responder skills including assessment, systems management, first aid, disaster preparation and training. It is designed for students who are interested in becoming an emergency room physician, emergency medical technician, paramedic, or emergency room nurse. Students may elect to attend 2 day off-site testing to become a certified First Responder.

PREREQUISITE: HEALTH SCIENCE

****Nutrition Science and Diet Therapy -6007-1 Credit; (Also Human Services Science course credit)**

Nutrition Science and Diet Therapy is an applied knowledge course in nutrition for students interested in the role of nutrition in health and disease. The course covers the development of a nutrition care plan as part of the overall health care process. Methods for analyzing the nutritional health of a community are explored. Finally, the relationship of diet and nutrition to specific diseases will be researched, including the role of diet as a contributor to disease and its role in the prevention and treatment of disease.

Artifacts will be created for inclusion in a portfolio, which will continue to build throughout the program of study.

****Nursing Education -1 Credit (At Springfield High Campus- must provide own transportation)**

Nursing Education consists of 18 units of study dealing with direct bedside nursing care. Clinical experience will consist of supervised practice in the nursing home, as well as demonstrations in the classroom. Students can be registered by Tennessee Department of Health—after the completion of the course, 100 hours clinical and theory, passing a state test (both written and skills)—and will be job ready. Students may complete a clinical internship following this course. Jobs include registered nurse, clinical nurse specialist, nurse practitioner, nurse midwife, nurse anesthetist, forensic nurse, and other occupations.

PREREQUISITE: HEALTH SCIENCE AND EITHER MEDICAL THERAPEUTICS OR ANATOMY
OPEN: Grades 12 ONLY.

*Selected by Instructor at SHS with recommendations from GHS instructor.

MARKETING

MARKETING MANAGEMENT

****INTRODUCTION TO BUSINESS AND MARKETING-5905-1 Credit;** This course is an introductory course designed to give students an overview of the Business Management and Administration, Marketing, and Finance career clusters. The course helps approved students prepare for the growing complexities of the business world by examining basic principles of business, marketing, and finance in addition to exploring key aspects of leadership, ethical and social responsibilities, and careers. Students' academic skills in communications, mathematics, and economics are reinforced with activities modeled in the context of business topics. Upon completion of this course, proficient students will be equipped with the foundational skills to succeed in any of the Business, Marketing, or Finance programs of study and will be prepared to make an informed decision regarding which pathways they would like to pursue in high school. Standards in this course are aligned with Tennessee State Standards

for English Language Arts & Literacy in Technical Subjects, Tennessee State Standards in Mathematics, and Tennessee Economics standards.

**** MARKETING & MANAGEMENT PRINCIPLES I-5931 –1 to 3 Credit.** The Marketing and Management I course focuses on the study of marketing concepts and their practical application. Students will examine risks and challenges marketers face to establish a competitive edge. Subject matter includes economics, marketing foundations/functions, and human resource leadership development. Skills in communication, mathematics, economics and psychology are reinforced in this course. Standards in this course are aligned with Tennessee State Standards for English Language Arts & Literacy in Technical Subjects, Tennessee State Standards in Mathematics, and Tennessee Economics standards.

RECOMMENDED PREREQUISITE: Intro to Business & Marketing (5905)

**** MARKETING & MANAGEMENT II: 5932- 1 credit:** this course is the study of marketing concepts and principles used in management. Students will examine the challenges, responsibilities, and risks managers face in today's workplace. Subject matter includes finance, business ownership, risk management, marketing information systems, purchasing, promotion, and human resource skills. Standards in this course are aligned with Tennessee State Standards for English Language Arts & Literacy in Technical Subjects, Tennessee State Standards in Mathematics, and Tennessee Economics standards.

PREREQUISITES: Marketing & Management I: Principles (5931)

ENTREPRENEURSHIP

****INTRODUCTION TO BUSINESS AND MARKETING-5905-1 Credit;** This course is an introductory course designed to give students an overview of the Business Management and Administration, Marketing, and Finance career clusters. The course helps approved students prepare for the growing complexities of the business world by examining basic principles of business, marketing, and finance in addition to exploring key aspects of leadership, ethical and social responsibilities, and careers. Students' academic skills in communications, mathematics, and economics are reinforced with activities modeled in the context of business topics. Upon completion of this course, proficient students will be equipped with the foundational skills to succeed in any of the Business, Marketing, or Finance programs of study and will be prepared to make an informed decision regarding which pathways they would like to pursue in high school. Standards in this course are aligned with Tennessee State Standards for English Language Arts & Literacy in Technical Subjects, Tennessee State Standards in Mathematics, and Tennessee Economics standards.

**** MARKETING & MANAGEMENT PRINCIPLES I-5931 –1 to 3 Credits.** The Marketing and Management I course focuses on the study of marketing concepts and their practical application. Students will examine risks and challenges marketers face to establish a competitive edge. Subject matter includes economics, marketing foundations/functions, and human resource leadership development. Skills in communication, mathematics, economics and psychology are reinforced in this course. Standards in this course are aligned with Tennessee State Standards for English Language Arts & Literacy in Technical Subjects, Tennessee State Standards in Mathematics, and Tennessee Economics standards.

PREREQUISITE: Intro to Business & Marketing (5905)

****ENTREPRENEURSHIP-5934- 1 credit.** Entrepreneurship is an applied knowledge course that begins with the discovery process of generating new business ideas. Students research local, national, and international social and economic trends and analyze the feasibility of their own proposed businesses,

both from a market demand and revenue -producing standpoint. Based on their entrepreneurial endeavors, students will prepare, write, and revise a business plan. In preparation for the business plan, students will conduct market research, study ownership structures, evaluate risks, examine startup costs, determine essential vendors, and identify sources of capital and financing options. Students will also draft, refine, and rehearse entrepreneurship pitches developed from their business plans to present during course intervals and to give final presentations at the conclusion of the course. Upon conclusion of this course, proficient students will be able to articulate, and defend, elements of a full business plan for a new business.

PREREQUISITE: Marketing and Management Principles I (5931)

TECHNOLOGY ENGINEERING EDUCATION

****FOUNDATIONS OF TECHNOLOGY-5917--** 1 credit; students will develop technological literacy skills. Integrated academics combined with a hands-on program of study that teaches about the development and application of technology, effects of technology, and direct problem solving activities. Introduction to drafting and modeling.

**** TECHNOLOGICAL DESIGN-5885--** 1 credit; In Technological Design, engineering scope, content, and professional practices are presented through practical applications. Students in engineering teams apply technology, science, and mathematics concepts and skills to solve engineering design problems and innovate designs. Students research, develop, test, and analyze engineering designs using criteria such as design effectiveness, public safety, human factors, and ethics. This course is an essential experience for students who are interested in technology, innovation, design, and engineering.

**** ADVANCED DESIGN APPLICATIONS-5920--** 1 credit; this is an overview course that introduces students to the concepts and practices that underlie careers in engineering and engineering technology. This course integrates technology, mathematics, and science into pre-engineering activities. Students acquire knowledge and skills in engineering problem solving and explore requirements for engineering careers. Hands-on course with extensive computer-aided design (CAD) & Capstone Design Project.

AGRICULTURE EDUCATION

VETERINARY AND ANIMAL SCIENCE

**** AGRISCIENCE 5957 --** 1 credit; 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. Standards in this course are aligned with Tennessee Common Core State Standards for English Language Arts & Literacy in Technical Subjects, Tennessee Common Core State Standards in Mathematics, and Tennessee state standards in Anatomy and Physiology, Biology I, Biology II, Chemistry I, Chemistry II, Environmental Science, Physical Science, Physics, and Physical World Concepts, as well as the National Agriculture, Food and Natural Resources Career Cluster Content Standards. This course counts as a lab science credit toward graduation and college entrance requirements.

**** SMALL ANIMAL SCIENCE 5958--**1 credit; 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. Standards in this course are aligned with Tennessee Common Core State

Standards for English Language Arts & Literacy in Technical Subjects, Tennessee Biology I standards, Tennessee Biology II standards, Tennessee Anatomy and Physiology standards, as well as National Agriculture, Food and Natural Resources Career Cluster Content Standards.

**** LARGE ANIMAL SCIENCE TBD--1 credit;** *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. Standards in this course are aligned with Tennessee Common Core State Standards for English Language Arts & Literacy in Technical Subjects, as well as Tennessee Anatomy and Physiology standards and National Agriculture, Food and Natural Resources Career Cluster Content Standards.

****VETERINARY SCIENCE 5961--1 credit;** *Veterinary Science* is an advanced 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 principles of health and disease, basic animal care and nursing, clinical and laboratory procedures, and additional industry-related career and leadership knowledge and skills. Standards in this course are aligned with Tennessee Common Core State Standards for English Language Arts & Literacy in Technical Subjects, Tennessee Anatomy and Physiology, Tennessee Biology I, and Tennessee Biology II standards, as well as National Agriculture, Food and Natural Resources Career Cluster Content Standards.

AGRICULTURE ENGINEERING

**** AGRISCIENCE 5957 -- 1 credit;** 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. Standards in this course are aligned with Tennessee Common Core State Standards for English Language Arts & Literacy in Technical Subjects, Tennessee Common Core State Standards in Mathematics, and Tennessee state standards in Anatomy and Physiology, Biology I, Biology II, Chemistry I, Chemistry II, Environmental Science, Physical Science, Physics, and Physical World Concepts, as well as the National Agriculture, Food and Natural Resources Career Cluster Content Standards. This course counts as a lab science credit toward graduation and college entrance requirements.

****PRINCIPLES OF AGRICULTURAL MECHANICS <AGMH>5944 -- 1 credit;** *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. Standards in this course are aligned with Tennessee Common Core State Standards for English Language Arts & Literacy in Technical Subjects, Tennessee Common Core State Standards for Mathematics and National Agriculture, Food, and Natural Resources Career Cluster Content Standards.

****AGRICULTURAL POWER AND EQUIPMENT 5945 -- 1 credit;** *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 fuelpowered engines as well as exploration of a wide range of careers in agricultural mechanics. Standards in this course are aligned with Tennessee Common Core State Standards for English Language Arts & Literacy in Technical Subjects, Tennessee Common Core State Standards in Mathematics, and National Agriculture, Food and Natural Resources Career Cluster Content Standards.

****AGRICULTURAL AND BIOSYSTEMS ENGINEERING 5963 -- 1 credit;** *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. Standards in this course are aligned with Tennessee Common Core State Standards for English Language Arts & Literacy in Technical Subjects, Tennessee Common Core State Standards for Mathematics, and National Agriculture, Food and Natural Resources Career Cluster Content Standards.

WELLNESS & PHYSICAL EDUCATION

Students are required to complete one credit in wellness and 1/2 credit of physical education.

****LIFETIME WELLNESS 3303 -- 1 credit;** will integrate the textbook study of health and physical activity.

OPEN: Grade 9

**** ADVANCED PE/PE ELECTIVES MEN 3301 – ½ credit** (county approved maximum 8); students will participate in a variety of activities and physical exercise on a daily basis. Dress in appropriate exercise clothing is required.

REQUIRED FOR GRADUATION

**** ADVANCED PE/PE ELECTIVES WOMEN 3301 – ½ credit** (county approved maximum 8); students will participate in a variety of activities and physical exercise on a daily basis. Dress in appropriate exercise clothing is required.

REQUIRED FOR GRADUATION

OTHER ELECTIVES

**** JOURNALISM -- 3008 -- 1 credit;** thorough and intensive study of all phases of basic journalism, including information on the mass media, news writing, and critical thinking.

PREREQUISITE: Must complete application for the yearbook staff.

****SERVICE LEARNING -- 9395 -- 1 credit;** a supervised assignment to any non-profit organization where a student can be of assistance while learning to become a productive member of society. Students will keep a daily journal of duties, activities and responsibilities as well as complete critical thinking writing assignments. **MAXIMUM CREDIT: 1 credit**

OPEN: Grade 12 and teacher recommendation

TENNESSEE DUAL ENROLLMENT GRANT

Tennessee Dual Enrollment Grant program is defined as a grant for study at an eligible postsecondary institution that is funded from net proceeds of the state lottery and awarded to students who are attending high school and are also enrolled in college courses at eligible postsecondary institutions for which they will receive college credit. Students eligible to participate in the Tennessee Dual Enrollment Grant program may receive up to \$600 per award year (\$300 per semester). The student applying for the Tennessee Dual Enrollment Grant program must be certified as eligible by the high school graduation requirements, gain admission to the postsecondary institution as a dual enrollment student and be enrolled in a high school-approved course of study. The student must maintain 2.75 College GPA for all postsecondary courses attempted under this grant.

Tennessee HOPE Scholarship

WHO IS ELIGIBLE?

Tennessee resident by September 1 of senior year in an eligible high school

First-time applicants must be entering freshmen

Student must be admitted to and enroll at least half-time in an eligible Tennessee postsecondary institution no later than 16 months following graduation from high school, home school or GED program.

AWARD FACTS

Up to \$4,000 per year at an eligible four-year Tennessee postsecondary institution

Up to \$2,000 at an eligible two-year Tennessee postsecondary institution

Awards to part-time students are prorated

BASIS OF SELECTIONS

Minimum unweighted 3.0 GPA or 21 ACT/980 SAT (National Test Date)

Renewal criteria:

Must have minimum 2.75 cumulative GPA after 48 attempted hours

Must have minimum 3.0 cumulative GPA after 72, 96, and 120 attempted hours

HOW & WHEN TO APPLY: Senior Year

Submit Free Application for Federal Student Aid (FAFSA) after January 1 at

www.fafsa.ed.gov

Application MUST be received by September 1 for the Fall term
and February 1 for the Spring term

Early application recommended

To renew award, submit renewal FAFSA each year

Visit: www.collegepaystn.com for more information.

WILDER-NAIFEH TECHNICAL SKILLS GRANT (FAFSA Application)

Award amount - \$2,000 (no more than cost of attendance)

Wilder-Naifeh Technical Skills Grant Recipients Must:

Enroll in a certificate or diploma program at a Tennessee Technology Center.

Cannot be prior recipient of Tennessee HOPE Scholarship or Wilder-Naifeh Technical Skills

Grant Available to all students enrolled at a Tennessee Technology Center who are TN residents 1 year prior to the term school begins.

Tennessee Scholars Program

To become a Tennessee Scholar, students must complete a demanding high school curriculum that emphasizes “on level” and above courses in mathematics, science, social studies, language arts (English and foreign language), and computer literacy. The program also stresses the importance of attendance and dependability. In addition to meeting all State Board of Education graduation requirements, Tennessee Scholars must complete the following course requirements and additional requirements in order to receive this Honor of Distinction:

4 English courses

4 Mathematics courses (Algebra I, Algebra II, Geometry and one higher level math course. Bridge math will not count toward Tennessee Scholar requirements)

3 Laboratory Science courses (Biology I and Chemistry plus one higher science, Physics recommended and preferred)

3 Social Studies (History, Government and Economics required)

Personal Finance as required by the State of Tennessee

Wellness and/or physical education as required by the State of Tennessee

1 Fine Arts

2 Foreign Language courses in the same language

2 Career Technical Education courses or 2 additional AP courses, or 2 dual credit/dual enrollment, or 2 International Baccalaureate courses or combination of 2 of the above.

Additional Requirements:

80 hours of Community Service

Maintain a “C” average in all Tennessee Scholars required classes

95% attendance each year

No out-of-school suspensions

Dual credit and online courses are acceptable for any of the course requirements for Tennessee Scholars.

		Total of all hours()	

For more information about Tennessee Scholars, visit www.tennesseescholars.org

Personal Plan of Study

Name of Student _____

Name of School _____

Robertson County Schools *Minimum* High School Graduation Requirements Requirements for Students Class of 2013 and beyond

TOTAL CREDITS REQUIRED: 26 (22 state specified)

MATH: 4 Credits PHYSICAL EDUCATION & WELLNESS: 1.5 Credits
 SCIENCE: 3 Credits FOREIGN LANGUAGE: 2 Credits
 ENGLISH: 4 Credits PERSONAL FINANCE: .5 Credit
 SOCIAL STUDIES: 3 Credits FINE ARTS: 1 Credit
ELECTIVE FOCUS: 3 Credits Other ELECTIVES: 4 Credits

Courses to Schedule

9th Grade: English, Math, Science – Physical Science, Wellness, World History, Elec Focus
 10th Grade: English, Math, Science – Biology 1, Spanish 1, Spanish II, Elec Focus
 11th Grade: English, Math, Science – Chemistry 1, US History, Fine Art, Elec Focus
 12th Grade: English, Math, US Government, Economics, Personal Finance, PE, Elec Foc

Elective Focus: _____

Grade 9		Grade 10		Grade 11		Grade 12	
Course Title	Credits	Course Title	Credits	Course Title	Credits	Course Title	Credits
1.		1.		1.		1.	
2.		2.		2.		2.	
3.		3.		3.		3.	
4.		4.		4.		4.	
5.		5.		5.		5.	
6.		6.		6.		6.	
7.		7.		7.		7.	
8.		8.		8.		8.	
Alternates		Alternates		Alternates		Alternates	

9.	9.	9.	9.
10.	10.	10.	10.
Total Credits	Total Credits	Total Credits	Total Credits

Greenbrier High School-Class of 20__

Name _____

<u>Freshman Year</u>		<u>Sophomore Year</u>	
Clubs/Organizations I was involved in	Position Held	Clubs/Organizations I was involved in	Position Held
School/Community Activities I was involved in		School/Community Activities I was involved in	
Honors/Awards Received		Honors/Awards Received	

<u>Junior Year</u>		<u>Senior Year</u>	
Clubs/Organizations I was involved in	Position Held	Clubs/Organizations I was involved in	Position Held
School/Community Activities I was involved in		School/Community Activities I was involved in	
Honors/Awards Received		Honors/Awards Received	

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**Class of 2018
GREENBRIER HIGH
SCHOOL**

Student Name _____

**I am committed to fulfilling my
*Commitment to Graduate*TM
with my class on time.**

**As part of my commitment I will do
the following:**

Attend school regularly

Make my grades to achieve the
necessary credits

Be involved in my high school

Give back to my community in the form

**Three of the people I know I can count on to help me
achieve my goal of Graduation in '18 are...**

Family Member

Friend

Community Leader