

# Greenback High School



## Course Catalog

2019-2020

GREENBACK SCHOOL  
6945 Morganton Road  
Greenback, Tennessee 37742  
Telephone 865.856.3028

# Registration Information

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## GRADUATION REQUIREMENTS

*Students at Greenback High School must complete 28 credits to receive a Tennessee High School Diploma.*

### **English: 4 credits**

### **Social Studies: 3 credits**

*All students must pass a Civics Test as part of the Tennessee Graduation Requirements. This is given during US Government.*

### **Math: 4 credits**

*Including Algebra I, Algebra II, Geometry, and a fourth higher level math (students must be enrolled in a math course each school year).*

### **Science: 3 credits**

*Including Biology, Chemistry or Physics, and a third lab course.*

### **Physical Education and Wellness: 1.5 credits**

*P.E. credit can be waived if student has participated in a sport.*

### **Personal Finance: 0.5 credits**

### **Elective Focus: 3 credits**

*The Elective Focus must be a program of study focusing on a particular area of concentration: Math and Science, Career and Technical Education, Fine Arts, Humanities, or Advanced Placement (AP).*

### **Foreign Language: 2 credits**

### **Fine Arts: 1 credit**

*Credits for foreign language and fine arts may be waived for students not planning to attend a four-year college or university and be replaced with three courses designed to enhance and expand elective focus. Parents must sign a waiver.*

## GRADE POINT AVERAGE (GPA) AND GRADING SCALE OF HONORS AND UNWEIGHTED HIGH SCHOOL COURSES

Numerical Grade	Letter Grade	Unweighted GPA	Weighted GPA	Advanced Placement or Dual Enrollment GPA
100-93	A	4.0	4.5	5.0
92-85	B	3.0	3.5	4.0
84-75	C	2.0	2.5	3.0
74-70	D	1.0	1.5	2.0
69 -0	F	0.0	0.0	0.0

## CHANGE OF SCHEDULE

Students' schedules are considered complete after the spring schedule verification process has been completed. Schedules will be adjusted within the first five days of the fall term for students who are academically overloaded or are misplaced in a course. All schedule changes must be approved by the guidance department and administration.

# Core Academic

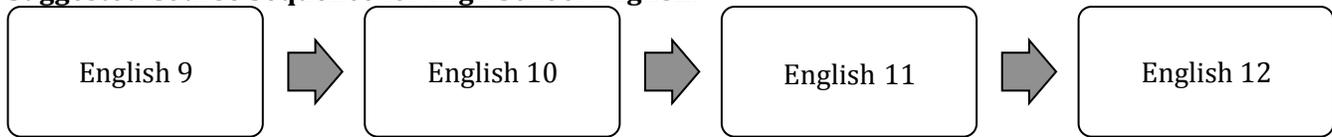


# Courses

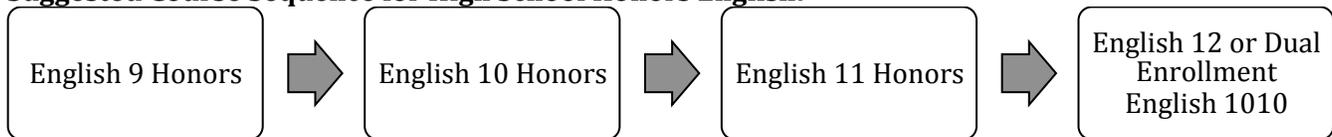
# English

**Four credits of English are required for graduation. One English course should be selected each year from the normal sequence.**

## **Suggested Course Sequence for High School English:**



## **Suggested Course Sequence for High School Honors English:**



*Honors path for students are determined by placement tests such as TCAPs, ACT EXPLORER, ACT PLAN, and with teacher recommendations.*

### **English 9 (1 credit)**

This class will focus on state standards with special attention to End of Course competencies. Students enrolled in this course may focus on preparation for future studies in a four-year college or a role in the working world. Students will review parts of speech, grammar and usage, spelling, vocabulary, sentence structure, and paragraph development. Reading skills will be strengthened by selections taken from various genres including: short stories, novels, and poetry. Literary elements in the various genres of literature will be studied and applied. Students will develop writing skills progressing to five paragraph compositions and a research paper. In addition, students will be responsible for displaying proper communication skills by way of oral presentations and group discussions. There is a moderate amount of work outside of class. One research project is required.

### **English 9 Honors (1 credit)**

*Prerequisite: Student must have a minimum score of 16 on the ACT practice test and teacher recommendation.*

This is an accelerated program designed to challenge students through an intensive exposure to literature and composition, which emphasizes the use of critical thinking and analytical skills. Instruction will be provided to help students develop superior skill level in the rhetorical modes with particular emphasis on literary analysis. **(Weighted Course)**

### **English 10 (1 credit)**

This course is designed to provide a continuation of the study of grammar and application of language skills as well as the development of reading, writing, and speaking skills. Students will study short stories, plays, essays, poetry, biographies, and novels. Reference skills will be refined, and students will continue to develop patterns of writing that are used in both college and the working world: letters, reports, articles, and essays.

### **English 10 Honors (1 credit)**

*Prerequisite: Student must have a minimum score of 18 on the ACT practice test and teacher recommendation.*

This course continues the accelerated sequence in language arts and is strongly recommended for students who wish to attend a competitive four-year college. The application of grammatical knowledge and language skills is required for both reading and writing assignments. Students will read a variety of short stories and essays. They are expected to analyze, compare, and evaluate examples of world literature, which comprise the main body of work studied in this course. Students will continue to develop and refine

research skills, and at least one major project will be required. Assessment for this course will include but not be limited to essay examinations, class discussion, oral presentations, objective tests, weekly vocabulary tests, and research projects. Summer outside reading and preparation for this class are required. **(Weighted Course)**

### **English 11 (1 credit)**

This course surveys philosophical trends in American literature from the Colonial period through the Revolutionary period and the Romantic period through the Modern period. In addition to analytical reading, communication skills through writing and speaking will be emphasized. Critical thinking of literature, social studies, and reference skills will be reinforced. Students enrolled in this course may focus on preparation for future academic studies or a role in the working world. Assessment includes projects, quizzes, tests, compositions, and one research paper. This is a yearlong course is paired with US History.

### **English 11 Honors (1 credit)**

*Prerequisite: Student must have a minimum score on 18 on the ACT practice test in Reading. This course will be paired with year long US History.*

This course continues the accelerated sequence in language arts and is strongly recommended for students who wish to attend a competitive four-year college. The application of grammatical knowledge and language skills is required for both reading and writing assignments. This course will survey philosophical trends through American literature from the Colonial period through the Revolutionary period. In addition to analytical reading of literature and social studies, communication skills in writing and speaking will be stressed. Examples of American Literature will be analyzed, compared, and evaluated. Students will continue to develop and refine research skills, and at least one major project and one research paper will be required each twelve weeks. Other assessments will include tests, essays, book reviews, and vocabulary. Summer outside reading and preparation for this class are required. **(Weighted Course)**

### **English 12 (1 credit)**

This course includes a survey of British literature and a focus on writing in preparation for college-level writing. This course is designed to develop critical and analytical skills in speaking, writing, reading, listening, and thinking. A survey of British literature through the Old English Period through the Renaissance Period and the basic philosophical and historical events of the respective periods will be studied. A survey of British literature through the Seventeenth and Eighteenth Centuries through the Modern Period and the basic philosophical and historical events of the respective periods will be studied. Library and reference skills will be reinforced and one major research project is required.

### **AP English 12 (1 credit)**

*Prerequisite: A 25 in ACT Reading and English is recommended along with a minimum of a 3.0 GPA and teacher recommendation.*

This course continues the accelerate sequence in language arts and is strongly recommended for students who wish to attend a competitive four-year college. The course will combine the survey of British literature with English Composition I (ENGL 1010). Arranged both thematically and chronologically, the course will explore the philosophical and historical events surrounding British literature of the Old English through Modern periods. Students will read and analyze texts of varying degrees of difficulty. Summer outside reading and preparation for this class are required. Students who choose this course will receive academic weighting. Students who take this course must commit to taking the AP Exam in May. **(Weighted Course)**

### **Dual Enrollment English 1010 and 1020: Grade 12**

Students who score a minimum of 19 on the ACT in English and Reading section will be able to take English 1010 and English 1020. Students will earn 1 high school credit and 3 college credits for each class that is passed. Applications must be submitted to Pellissippi State by the student in order to take a dual enrollment class. For more details on Dual Enrollments, please contact school counselor. **(Weighted Course)**

### **Reading Intervention (1 credit)**

This course is required for those students who need additional support with explicit instruction and reading practice. Competencies include decoding, encoding, oral reading fluency, and comprehension. Daily class time is 60-90 minutes using research-based structured phonetic reading instruction and appropriately individualized comprehension strategies. Placement in this course will be based off a benchmark test that is given at the beginning of the school year.

# History and Social Studies

**2.5 credits of Social Studies are required for graduation: Modern World History, US History/Honors, US History, and US Government**

### **Modern World History (1 credit) \*Required**

The goal of this class is to provide students with the general knowledge of modern world history. This is a survey course over significant period covering topics such as the Renaissance, Revolutions, The Industrial Age, The World Wars, and the world as it is today. This objective will be reached through discussion, lecture, group work, quizzes/tests, papers, and map work.

### **US History (1 credit) \*Required**

In US History, we will study the history of the United States from post reconstruction to current times. Areas of focus will be early Industrialization, Imperialism, Progressivism, World War I, and the Roaring 20s. We will also study the history of the United States from the Great Depression through current events in the United States. The class is taught using a discussion base but also includes discovery and repetition and practice. The student's grade is determined by a number of criteria including but not limited to chapter quizzes, unit tests, essays, research assignments, and reading interpretations. This is a yearlong course is paired with English 11.

### **US History Honors (1 credit) \*Required**

*Prerequisite: Student must have a minimum score on 18 on the ACT practice test in Reading. This course will be paired with year long English 11.*

In US History, we will study the history of the United States from post reconstruction to current times. Areas of focus will be early Industrialization, Imperialism, progressivism, World War I, and the Roaring 20s. We will also study the history of the United States from the Great Depression through current events in the United States. The class is taught using a discussion base but also includes discovery and repetition and practice. The student's grade is determined by a number of criteria including but not limited to chapter tests, research assignments, more reading interpretations and longer written assignments than standard US History.

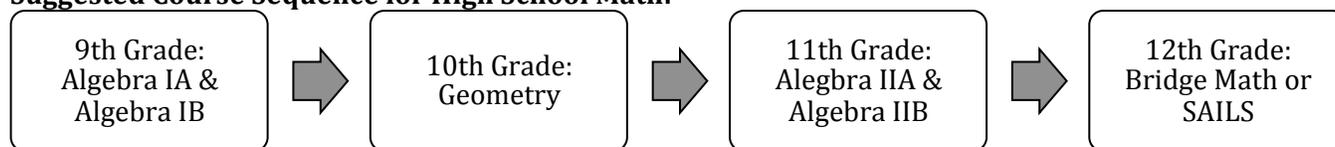
### **US Government (0.5 credit) \*Required**

U.S. Government will include an in-depth study of the U.S. government system, including the executive, legislative and judicial branches. The federal level of government will be compared and contrasted with the government at the state and local levels.

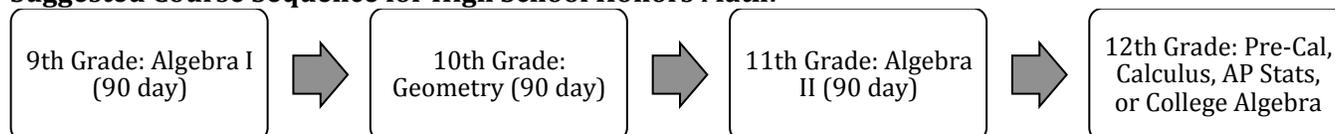
# Math

**All students are required to complete a mathematics course sequence including Algebra 1, Algebra 2, Geometry, and one additional math course.**

## **Suggested Course Sequence for High School Math:**



## **Suggested Course Sequence for High School Honors Math:**



*Honors path for students are determined by placement tests such as TCAPs, ACT EXPLORER, ACT PLAN, and with teacher recommendations. Honors students can “double up” and take two math courses in the same year.*

### **Algebra I (1 elective credit and 1 math credit): 9<sup>th</sup> Grade**

This course is a year long and designed for all students starting their Algebra I experience. Topics of interest in this course include the language of Algebra, real numbers, solving and analyzing linear equations, and graphing relations and functions. Assessment will typically come from homework, quizzes, and test results. Students will extend their knowledge of linear graphing to inequalities and systems of linear equations. They will learn how to perform various operations involving monomials and polynomials. Students will be introduced to factoring techniques that will enable them to simplify rational expressions and solve rational equations. Students will encounter such topics as radical expressions and triangles, non-linear functions, data analysis and probability. Students will receive 1 elective credit after completing the first semester of Algebra I and will receive one credit in math upon completing the End of Course exam provided by the state.

### **Algebra I Honors (1 credit): 9<sup>th</sup> Grade**

*Prerequisite: A minimum score of 17 on the Act Explorer and teacher recommendation.*

This is an accelerated 90-day Algebra class for the serious math student who has above average ability in mathematics and a strong work ethic. It is a fast-paced, comprehensive course covering basic to advanced algebra concepts and problem solving. This course introduces students to modeling with mathematics, reasoning abstractly and quantitatively, constructing viable arguments, and critiquing the reasoning of others. Topics include: interpreting the structure of expressions; writing expressions in equivalent forms to solve problems; performing arithmetic operations on polynomials; understanding the relationship between zeros and factors of polynomials; using polynomial identities to solve problems; rewriting rational functions; creating equations that describe numbers or relationships; understanding solving equations as a process of reasoning and explaining the reasoning; solving equations and inequalities in one variable.

**(Weighted Course)**

### **Geometry (1 elective credit and 1 math credit): 10<sup>th</sup> Grade**

This course is a year long course and is designed to emphasize the study of the properties and applications of common geometric figures in two and three dimensions. It includes the study of transformations and right triangle trigonometry. Inductive and deductive thinking skills are used in problem solving situations, and applications to the real world are stressed. It also emphasizes writing proofs to solve (prove) properties of geometric figures.

### **Geometry Honors (1 credit): 10<sup>th</sup> Grade**

*Prerequisite: A minimum score of 17 on the Act practice test and teacher recommendation.*

This course is a 90-day course and is designed to emphasize the study of the properties and applications of common geometric figures in two and three dimensions. It includes the study of transformations and right triangle trigonometry. Inductive and deductive thinking skills are used in problem solving situations, and applications to the real world are stressed. It also emphasizes writing proofs to solve (prove) properties of geometric figures. **(Weighted Course)**

### **Algebra II (1 elective credit and 1 math credit): 11<sup>th</sup> Grade**

*Prerequisite: One full credit in Algebra I and Geometry.*

Students who scored below proficient will take 180 day Algebra II class. These students will receive an elective credit for the first semester of the class and receive their Algebra II math credit after passing the second semester of the class. Algebra II topics include complex numbers, relations and functions, exponents and logarithms, quadratic relations, and systems of equations and inequalities. This is a college preparatory course that will include all the topics suggested by the State Guide and State Standards. Assignments and discussion will center on the problems and ideas of the basic terms and concepts of triangles, analyzing of incomplete deductive proofs, transformations, circles, and areas/volumes.

### **Algebra II Honors (1 credit): 11<sup>th</sup> Grade**

*Prerequisite: Students must have a minimum score of 19 on the math section of the ACT practice test and score at least proficient on the EOC in Algebra I and Geometry.*

This section of Algebra II is a 90 day course and the topics include complex numbers, relations and functions, exponents and logarithms, quadratic relations, and systems of equations and inequalities. This is a college preparatory course that will include all the topics suggested by the State Guide and State Standards. Assignments and discussion will center on the problems and ideas of the basic terms and concepts of triangles, analyzing of incomplete deductive proofs, transformations, circles, and areas/volumes. **(Weighted Course)**

### **Pre-Calculus Honors (1 credit)**

*Prerequisite: One full credit in Algebra II and one full credit in Geometry.*

This course is a college preparatory course, and it involves a detailed study of advanced mathematical topics, including functions, logarithms, in-depth Trigonometry and Analytical Geometry. This class is an excellent choice for college-bound seniors who meet the prerequisites. **(Weighted Course)**

### **Calculus Honors (1 credit)**

*Prerequisite: One full credit in Pre-Cal, Score a minimum of 22 in math on the ACT, and have a teacher recommendation.*

This course is of college mathematical equivalence. During semester, we will cover topics such as limits, continuity, and derivatives as a concept and computation. Assessment includes homework, quizzes, and tests. Further, the nature of the course will prepare students with a solid foundation of mathematical concepts for any future college math course, including calculus, applications of derivatives, integrals, and the fundamental theorem of calculus. **(Weighted Course)**

### **AP Statistics (1 credit)**

*Prerequisites: Algebra I, Geometry, Algebra II. Students need to be advanced writers.*

This course is designed to actively involve students in the mathematical analysis of significant real-world problems and to demonstrate the power of mathematics as a problem-solving tool. Diverse areas of interest are addressed in fields such as engineering, sociology, environmental studies, law, manufacturing and quality control, and medicine. Mathematical techniques are reviewed or developed as necessary to solve problems in these areas. Major techniques of functional, probabilistic, and statistical analysis are emphasized. Students work extensively with computers and graphing calculators. Assessment will be based

upon exhibitions of mastery, collaborative projects, and individual testing. This course is designed to prepare students for the College Board's Advanced Placement examination, successful completion of which may result in college credit. Students who take this course must commit to taking the AP Exam in May. Students are responsible for the cost of the test. **(Weighted Course)**

**Bridge Math (1 credit): 12<sup>th</sup> Grade**

This course is for any student that scores an 18 on the ACT. The class is designed to remediate basic math skills to improve the student's ACT scores. The focus will be to prepare students for their beginning Math course at the college level.

**SAILS (Seamless Alignment and Integrated Learning Support) (1 credit): 12<sup>th</sup> Grade**

This course introduces the college developmental math curriculum in the high school senior year. Students who successfully complete the program are ready to take a college math course, saving them time and money while accelerating their path to graduation. Students who take the ACT their junior year and score less than a 19 in Math are required to take the SAILS course their senior year. In SAILS, these students can complete the college Learning Support Math program, preparing them for a college-level math course, which will give them a jump-start on their college career.

**Dual Enrollment College Algebra/Stats: 12<sup>th</sup> Grade**

Students who score a minimum of 19 on the ACT Math section will be able to take College Algebra. Students will earn 1 high school credit and 3 college credits for the class. Application must be submitted to Pellissippi State or Roane State for a student to take this class. For more details on Dual Enrollments, please contact school counselor. **(Weighted Course)**

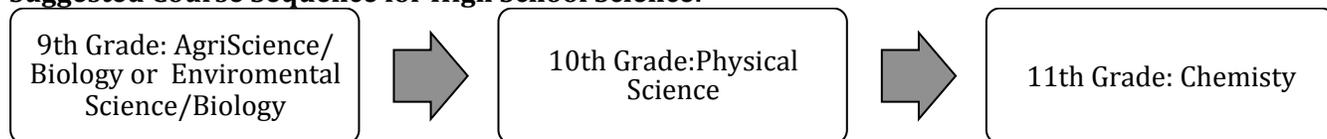
**Math Intervention (1 credit)**

This course is required for those students who need additional support with explicit instruction and math practice. Competencies include basic math facts fluency and foundational math skills. Daily class time is 30-45 minutes. Placement in this course is based off a benchmark test that is given at the beginning of the school year.

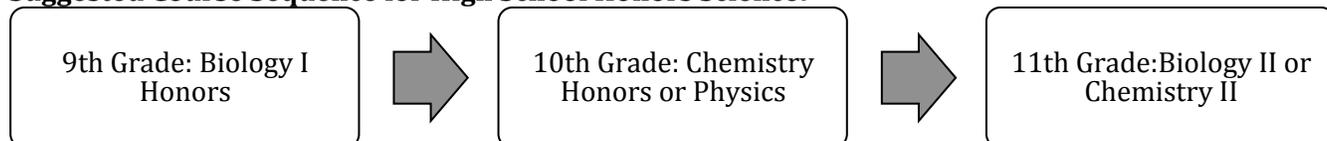
# Science

*Students are to complete 3 credits in this area to meet state requirements: one credit each in Biology, Physics or Chemistry, and one additional science lab class.*

**Suggested Course Sequence for High School Science:**



**Suggested Course Sequence for High School Honors Science:**



*Honors path for students are determined by placement tests such as TCAPs, ACT EXPLORER, ACT PLAN, and with teacher recommendations.*

**Agriscience (1 credit)**

\* See description of this course under Agriculture in the Career and Technical Educational (CTE) section. This course is paired with Biology. Students who do not score a minimum of 17 on the ACT practice test Reading section can take Agriscience in the 1<sup>st</sup> semester and Biology in the 2<sup>nd</sup> semester.

**Environmental Science (1 credit)**

Environmental Science focuses on the interdependence between living organisms and their environments. It is designed to give the student insight into the complex world in which he/she lives and functions through real world applications. The impact of human beings on the environment is heavily emphasized in each unit covered. Students will investigate Earth systems, land use, natural resources in the Environmental Science, ecological principles, human population dynamics, climate change, and human interactions with the environment during Environmental Science. The concepts studied relate to future life and physical science classes that the students will be required to take.

**Biology (1 credit) \*Required**

Biology I is a laboratory science course that investigates the relationship between structure and function from molecules to organisms and systems, the interdependence and interactions of biotic and abiotic components of the environment, and mechanisms that maintain continuity and lead to changes in populations over time. Embedded standards for Inquiry, Technology & Engineering, and Mathematics are taught in the context of the following content: Ecology, Cells, Energy, Mitosis, Meiosis, Genetics, Biotechnology, Biodiversity, Change, EOC review, and Dissection with comparative anatomy.

**Biology Honors (1 credit)**

Biology I is a laboratory science course that investigates the relationship between structure and function from molecules to organisms and systems, the interdependence and interactions of biotic and abiotic components of the environment, and mechanisms that maintain continuity and lead to changes in populations over time. Embedded standards for Inquiry, Technology & Engineering, and Mathematics are taught in the context of the following content: Ecology, Cells, Energy, Mitosis, Meiosis, Genetics, Biotechnology, Biodiversity, Change, EOC review, and Dissection with comparative anatomy. **(Weighted Course)**

**Biology II Honors (1 credit)**

*Prerequisite: One full credit in Biology I.*

Biology II is a laboratory science course that performs further investigations based on the material covered in Biology I. Topics investigated include invertebrates, chordates (including fish, amphibians, birds, and mammals), and the human body. Activities include a fish dissection, plant collection, arthropod collection, and various curriculum-based projects. **(Weighted Course)**

**Physical Science (1 credit)**

Physical Science is a laboratory science course that explores the relationship between matter and energy. Students investigate physical concepts through an inquiry-based approach. Embedded standards for Inquiry, Technology & Engineering, and Mathematics are taught in the context of the content standards for Energy, Matter, Motion, and Force. For students who need a strong foundation in science, this class is also the prerequisite course for Chemistry.

**Chemistry I (1 credit)**

*Prerequisite: One full credit in Biology.*

Chemistry is a study in the fundamentals and will cover the following topics: Measurement, Periodic Trends, Matter and Change, Atomic Theory, Electron Arrangement, Ionic Bonding and Nomenclature, Chemical Reactions and Product Prediction, and Mole Concept, Stoichiometry, Gases, Solutions, Acid/Base/Salt, Equilibrium, Special Lab Procedures, and Organic Nomenclature. Each student will be participating in several lab activities. Moderate homework and memorization will be required.

### **Chemistry I Honors(1 credit)**

*Prerequisite: One full credit in Biology.*

Chemistry is a study in the fundamentals and will cover the following topics: Measurement, Periodic Trends, Matter and Change, Atomic Theory, Electron Arrangement, Ionic Bonding and Nomenclature, Chemical Reactions and Product Prediction, and Mole Concept, Stoichiometry, Gases, Solutions, Acid/Base/Salt, Equilibrium, Special Lab Procedures, and Organic Nomenclature. Each student will be participating in several lab activities. Moderate homework and memorization will be required.

### **Chemistry II Honors (1 credit)**

*Prerequisite: One credit in Chemistry*

The Chemistry II course is a year-long course designed to be the equivalent of the general chemistry course usually taken during the first college year. Students should attain depth of understanding of fundamentals and a reasonable competence in dealing with chemical problems. Development of the students' abilities to think clearly and to express their ideas, orally and in writing, with clarity and logic is expected. There is an emphasis on chemical calculations and the mathematical formulation of principles. Differences from Chemistry 1 are found in the number of topics treated, the time spent out of the classroom on the course by students, and the nature and the variety of experiments done in the laboratory. Topics include: Atomic Development, Chemical Reactions and Solution Stoichiometry, Thermodynamics, Bonding Theories, Kinetics, Equilibrium, States of Matter, Electrochemistry, Acid/Base Systems, Organic Chemistry, and Nuclear Chemistry. **(Weighted Course)**

### **Physics Honors (1 credit)**

*Prerequisite: One full credit in Chemistry I and Honors Algebra II*

Physics is an analytical science that requires strong problem solving skills. Physics is becoming more and more relevant in thousands of vocations. As the technology of our world grows exponentially, an understanding of basic Physics concepts can prepare students for the demands of these technologies as well as any course out there. Physics will be a study of kinematics (motion) with a strong dose of the following topics: Measurement, Graphing and Charts, Velocity, Acceleration, Displacement, Time, Force, Two Dimensional Motion, Gravitation, and Momentum. **(Weighted Course)**

## Foreign Language: Spanish

***Completion of two years of the same foreign language is required for graduation under the Tennessee Diploma Project and for students who are attending a four-year college or university after high school.***

***Students not planning on attending a four-year university can opt out of the foreign language and fine art requirements in order to expand and enhance their elective focus. Students must have a waiver signed by their parents/guardians to exclude these courses from their schedule.***

### **Spanish I (1 credit) \*Required unless Foreign Language/Art Waiver signed\***

*Students must have a 13 on the ACT Explorer in English and a 15 in Reading to take class as a Freshman.*

Spanish I is a basic introduction to the Spanish language and its culture. The course is designed based on the comprehensible input theory of language learning with novels being the core component of instruction. Students will learn through reading, listening, and analyzing texts in Spanish. High frequency words and structures are emphasized.

### **Spanish II (1 credit) \*Required unless Foreign Language/Art Waiver signed\***

*Prerequisite: One full credit in Spanish I*

Spanish II continues the development of skills from Spanish I. This course also uses novels and comprehensible readings as the main element of instruction.

### **Spanish III Honors (1 credit)**

*Prerequisite: One full credit in Spanish I and II*

Spanish III is a continuation of the study of language through comprehensible input methodology. Students will be exposed to more advanced grammatical structures, gain global awareness of different cultural perspectives, and continue to build language proficiency and cultural understanding for the 21st century.

**(Weighted Course)**

### **Spanish IV Honors (1 credit)**

*Prerequisite: One full credit in Spanish I, II, and III*

Spanish IV is a further continuation of the study of language through comprehensible input methodology. Students will be exposed to more advanced grammatical structures, gain global awareness of different cultural perspectives, and continue to build language proficiency and cultural understanding for the 21st century. **(Weighted Course)**

## Additional Core Courses

*The following classes offered. Courses required for graduation are marked as \*required.*

### **Personal Finance (0.5 credit) \*Required**

Personal Finance is a course designed to help students understand the impact of individual choices on future earnings affected by their spending and saving habits. This course will provide foundational understanding for making informed personal financial decisions. Real world topics covered will include: income, money management, spending and credit, saving and investing, insurance, and taxes. This course is a state mandated requirement for graduation.

### **Economics (0.5 credit) \*Required**

Economics includes a study of basic terminology, consumer roles, investments, taxation, insurance, worldwide economic systems, current economic issues and problems, budget planning, banking, labor unions, and employment in a global economy. Students are introduced to the fundamentals of the American free enterprise system.

### **Lifetime Wellness (1 credit) \*Required**

This is a mandatory class for graduation. Students are required to take this course during their freshmen year. Emphasis is on making informed choices about health issues. These issues include fitness, nutrition, human sexuality, substance use, disease prevention, and first aid. Students completing this course will be better prepared to assume responsibilities for their lifetime wellness. This course will also have pre and post semester FitnessGram testing.

### **PE (0.5 credit) \*Required unless waiver signed\***

This is a nine-week ½ semester course designed to encourage students to be active. The course has three elements, that the students will be involved in stretching, strength segment, and aerobic activity. Students are required to “dress out” as a part of the grading criteria along with participation, effort, attitude, quizzes, and final. This course may be taken more than once and involves various games that encourage teamwork. The state mandates that this course be completed as a requirement for graduation.

**Individual Sports (1 credit) \*Offered based on availability and interest\***

This course is designed for the student interested in learning and participating in a variety of individual or dual sports. Activities may include, but are not limited to table tennis, badminton, disc golf, shuffle board, bowling, bocce ball, pickle ball, horse shoes, archery, along with pre and post semester FitnessGram testing. Students will learn the rules and skills involved in each of these activities.

**Nutrition and Fitness (1 credit) \*Offered based on availability and interest\***

This course is designed for the student interested in learning and participating in a variety of elements associated with nutrition such as diets, caloric intake, and procedures. Nutrition studies will be blended with different methods and procedures of obtaining fitness on a personal level. The two previous units of study will be augmented with pre and post semester FitnessGram testing.

**Team Sports (1 credit) \*Offered based on availability and interest\***

This course is designed for the student interested in learning and participating in a variety of team sports. Activities will include, but not limited to basketball, Clinch Ball, Flag Football, soccer, and volleyball, along with pre and post semester FitnessGram testing. Students will learn the rules and skills involved in each of these activities.

**Strength and Conditioning (1 credit) \*Offered based on availability and interest\***

This course is designed for the student who is serious about toning the body and adding muscle mass through various vigorous weight training regimens. This course will also have pre and post semester FitnessGram testing.

**Art (1 credit) \*Required unless Foreign Language/Art Waiver signed\***

Students in High School visual art courses will create, evaluate, and research the historical context of works on art. The students will apply various media, techniques, and processes in the creation and analysis of artworks. Students, through practice and sequential study, will strive to achieve technical mastery in the areas of art production, art criticism, aesthetics, and art history. As the students progress through the course in the area of visual art, they will develop problem-solving and critical-thinking skills. These skills are gleaned from the study of ideas, concepts, issues, and knowledge related to the visual arts.

**Art II (1 credit)**

*Prerequisite: One full credit in Art I.*

Art 2 is designed for students who showed proficiency in Art I to advance their artistic studies. The students will learn about different art professions, delve deeper into the history of art, and create more complex artworks with new materials. Students will complete research on artists they find interesting, keep an independent sketchbook for all their works, make art of their choice using creative thinking and problem-solving skills, and assemble a portfolio including their best artwork and an artist statement to display their processes and ideas.

# Career and Technical Education



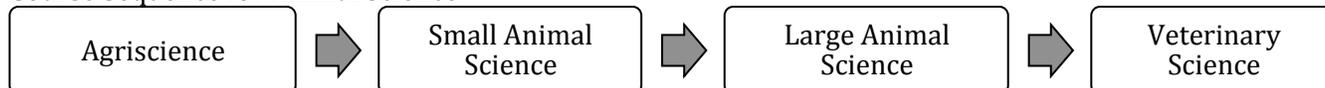
## Courses

***CTE works to prepare students for postsecondary education and careers through various career clusters. Students who are pursuing their elective focus in the CTE area are required to complete at least 3 credits within the same cluster area.***

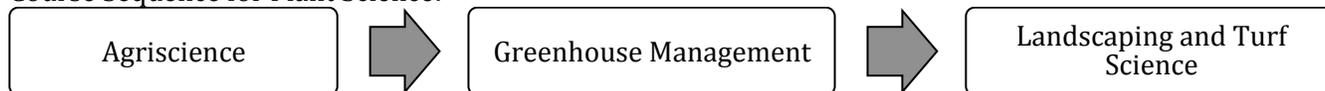
***For each cluster area, the first course listed is the introductory course and MUST be taken first unless student is given instructor approval.***

## Agriculture

Course Sequence for Animal Science:



Course Sequence for Plant Science:



### **Agriscience (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. This course counts as a lab science credit toward graduation and college entrance requirements. This class is a prerequisite to all other Agriculture courses. **Can satisfy lab science requirement.**

### **Small Animal Science (1 credit)**

This course is an intermediate 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. Upon completion of this course, proficient students will be prepared for more advanced coursework in veterinary and animal science. This has the potential to be a dual enrollment opportunity.

### **Large Animal Science (1 credit)**

This course 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. Upon completion of this course, proficient students will be prepared for success in the level-four *Veterinary Science* course and further postsecondary training. This has the potential to be a dual enrollment opportunity.

### **Veterinary Science (1 credit)**

This course 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. This course has the potential to be a dual enrollment opportunity or to earn an industry certification.

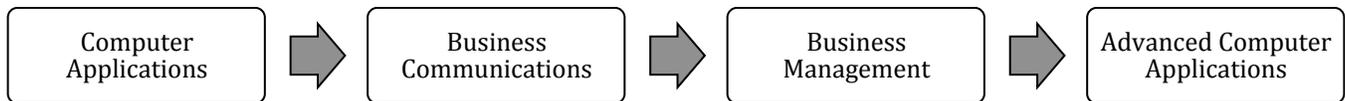
### **Greenhouse Management (1 credit)**

This course 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. Upon completion of this course, proficient students will be equipped with the technical knowledge and skills needed to prepare for further education and careers in horticulture production. This has the potential to be a dual enrollment opportunity.

### **Landscaping and Turf Science (1 credit)**

This course is a applied 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. Upon completion of this course, proficient students will be prepared to pursue advanced study of landscaping and turf science at a postsecondary institution.

## *Business Management*



### **Computer Applications (1 credit)**

Computer Applications is a foundational course intended to teach students the computing fundamentals and concepts involved in the proficient use of common application software. Upon completion of this course, students will gain basic proficiency in word processing, spreadsheets, databases, and presentations. In addition, students will have engaged in key critical thinking skills and will have practiced ethical and appropriate behavior required for the responsible use of technology.

### **Business Communications (1 credit)**

Business Communications is a course that prepares students for oral and electronic business communications in the 21<sup>st</sup> century including social media as well as developing skills in electronic publishing, design, layout, composition, and video conferencing. Emphasis will be placed on social media, design and digital communications. Students will review and practice successful styles and methods for professional business communications using the proper tools to deliver effective publications and presentations. Students in this class will own their own business with all assignments relating to the business.

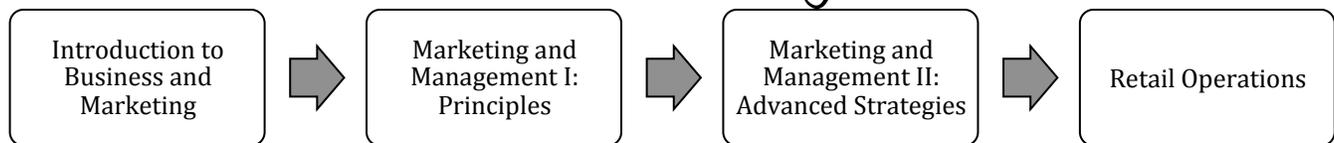
### **Business Management (1 credit)**

This course provides advanced training, including hands-on experiences, for students pursuing a career in business management & administration. Procedures and concepts are related to information processing systems, administrative/information management, problem solving, reasoning, team-building, time management, business standards, feasibility studies, cost/budgeting, professional leadership, ethical and legal issues, mathematics, and communications. Students will be a part of the Yearbook staff and produce "The Cherokeean" and other school and community publications. The class structure is a business publication office, and all assignments are related to this environment.

### **Advanced Computer Applications (1 credit)**

This class prepares students to continue postsecondary training in business related programs, provides advanced training for students pursuing a career in administrative and information support, and supports obtaining an industry certification in specific software applications (such as the Microsoft Office Suite). Course content and projects are meant to simulate workplace scenarios and draw on skills related to communication, operations, management, and teamwork in order to accomplish information management goals. Upon completion of this course, proficient students will be fluent in a variety of information management software applications and will be prepared to sit for the Microsoft Office Specialist (MOS). Students will be tested on site for Microsoft Word and may opt to test for other parts of the MOS.

## Marketing



### **Introduction to Business and Marketing (1 credit)**

This course is designed to introduce and provide an overview of marketing and organizational leadership, as well as employment opportunities available in these fields. Students will explore important marketing concepts, personality traits, and communication skills. Students will also develop skills in teamwork, conflict resolution, and group problem solving techniques used in business.

### **Marketing and Management I Principles (1 credit)**

This class 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. Can fulfill Economics credit.

### **Marketing and Management II Principles (1 credit)**

This is a course of study that focuses on the system (planning, collecting, processing information, and implementing information) for conducting research to determine marketing strategies. The course is targeted at students who need a basic understanding of research procedures, data interpretations, and communication of findings.

### **Retail Operations (1 credit)**

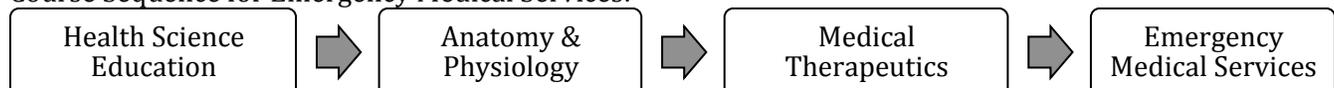
This course offers a comprehensive view of retail from general information about retailers, consumers and buying behavior to specific management, buying, systems and retail strategy.

## Health Science

Course Sequence for Sport and Human Performance:



Course Sequence for Emergency Medical Services:



**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 is the prerequisite for all other Health Science courses.

**Anatomy and Physiology (1 credit)**

This is a course in which students will examine human anatomy and physical functions. They will analyze descriptive results of abnormal physiology and evaluate clinical consequences. A workable knowledge of medical terminology will be demonstrated. This course counts as a lab science credit toward graduation and college entrance requirements.

**Rehabilitation Careers (1 credit)**

Rehabilitation Careers is an applied course designed to prepare student to pursue careers in rehabilitation services. Upon completion of this course, a proficient student will be able to identify careers in rehabilitation services and correlate the related anatomy and physiology, then develop an appropriate plan of treatment.

**Medical Therapeutics (1 credit)**

This 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.

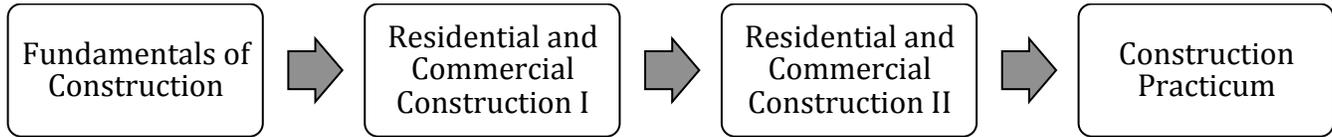
**Exercise Science (1 credit)**

Exercise Science is an applied course designed to prepare students to pursue careers in kinesiology and exercise physiology services. Upon completion of this course, proficient students will be able to apply concepts of anatomy and physiology, physics, chemistry, bioenergetics, and kinesiology to specific exercise science contexts. Through these connections students will understand the importance that exercise, nutrition, and rehabilitation play in athletes or patients with debilitating or acute metabolic, orthopedic, neurological, psychological, and cardiovascular disorders. In addition, students have the opportunity to incorporate communication, goal setting, and information collection skills in their coursework in preparation for future success in the workplace.

**Emergency Medical Services (1 credit)**

Emergency Medical Services is a capstone course in the Emergency Medical Services program of study and is designed to prepare students to pursue careers in the fields of emergency medicine. Upon completion of this course, proficient students will be able to: identify careers and features of the EMS system; define the importance of workforce safety and wellness; maintain legal and ethical guidelines; correlate anatomy and physiology concepts to the patient with a medical or traumatic injury; and perform EMS skills with a high level of proficiency. If taught with an EMT instructor, students will be given the opportunity to sit for the National Emergency Medical Responder certification. In addition, students will continue to add artifacts to a portfolio, which they will continue to build throughout the program of study.

# Residential and Commercial Construction



## **Fundamentals of Construction (1 credit)**

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

## **Residential and Commercial Construction I (1 credit)**

This is a course that will introduce students to basic skills and knowledge related to building residential homes and commercial business buildings. 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 anyone looking to go into Plumbing, Concrete Masonry, Electrical Work, and Wood Working.

## **Residential and Commercial Construction II (1 credit)**

This is a course in which 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.

## **Construction Practicum (1 credit)**

Students will be placed within a business that will apply the knowledge gained from construction course sequence. In order for a student to participate in this course, they must have approval from Construction teacher and fill out appropriate Work-Base paperwork.

# Practicum Opportunities

## **Peer Tutoring: Grade 11-12 (1 credit)**

*Prerequisite: Application Required*

This course is offered to students who want to assist in the Special Education Department. An understanding of various disabilities and trends/contemporary issues dealing with these disabilities will be gained. This course is suggested for students considering entering a career involving teaching and working with adults and children who have disabilities. Peer tutors may be assigned to accompany and assist students with disabilities in general education classes, or to serve as a job coach at based sites, or to tutor students in a special education classroom. Students **MUST** submit an application and complete a peer matching survey. Applications are available in the guidance office.

## **Teacher Assistant: Grade 11-12 (No Credit)**

*Prerequisites: Good Attendance, Minimum GPA of 3.0, and Application Required*

Selection as a teacher assistant is a privilege. Students are expected to demonstrate integrity and maturity.

Teacher assistants will be randomly assigned to classroom teachers or to one of the offices. Juniors and seniors may request the position of teacher assistant only one time per academic year and must be enrolled in five academic courses.

### **Teacher Transition: Grade 11-12 (1 credit)**

*Prerequisites: Good Attendance, Minimum GPA of 3.0, and Application Required.*

This section of the College & Career Readiness Program is designed to accelerate academic success within the classroom. This course will consist of highly motivated seniors and some juniors who, for one block during the semester, will be distributed to various classrooms in the elementary and middle school grades. Priority will be given to students interested in pursuing a career in Education post high school. For the first 4 weeks students will be trained to work in an experienced teacher's classroom to provide academic support and to act as mentors to underclassmen. For the remaining time in the course students' main objectives will be to help motivate students with low self-confidence, provide one-on-one tutoring to students returning from absences, develop leadership skills, review and sharpen skills learned in a particular class, and experience learning from the teacher's perspective.

## Work Based Learning

*Prerequisite: Students must be employed and have good attendance along with teacher recommendation.*

Greenback students can earn up to two credits per semester of Work-Based Learning. Work-Based learning (WBL) is a proactive approach to bridging the gap between high school and high-demand, high-skill careers in Tennessee. Students build on classroom-based instruction to develop employability skills that prepare them for success in postsecondary education and future careers. Through experiences like internships, apprenticeships, and paid work experience, juniors and seniors (16 years or older) may earn high school credit for capstone WBL experiences.

## Early Post Secondary Dual Enrollment Opportunities

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### **Dual Enrollment at Local Community College**

Students who have ACT sub-scores of 19 or higher and a composite of 19 or higher, along with a 3.0 G.P.A., have the privilege of earning college credit while still enrolled in high school. Students may earn college credit through Pellissippi State or Roane State. Students who meet the qualifications will be eligible for scholarships through The Dual Enrollment Grant.

The following steps must be completed for students who wish to enroll in dual enrollment classes:

- A. 19 or higher on all ACT sub-scores and composite
- B. 3.0 G.P.A.
- C. Completion of Greenback School Dual Enrollment Registration
- D. Admission into college by completing college application (found on college website)
- E. Completion of Dual Enrollment Grant Application

- F. Completion of Hepatitis B Form
- G. Payment of college tuition
- H. Transportation to college courses
- I. Purchase of college textbooks

To maintain the Dual Enrollment Lottery Scholarship, students must maintain a 2.75 G.P.A. in their college courses.

If students enrolled in college courses that take these classes on a college campus, students must follow their school's rules and schedules. On the days and times students are not on the college campus, they will report for their normal high school classes at Greenback School, following the rules and schedules of GHS.

Dual enrollment classes are designated as honors courses, thereby earning .5-bonus point added to the passing grade of their college course. Students may pursue college credit in the academic areas of English, psychology, and biology and in any other academic area.

### **Diesel Technology or Welding at Tennessee College of Applied Technology (TCAT)**

*Prerequisites: Students must be on track to graduate, have good attendance and no disciplinary issues. Must be able to provide their own transportation and have recommendation from CTE teacher.*

The Diesel and Welding programs are taught by Harriman TCAT instructors, and the campus is located at the Loudon County Tech Center (LCTC) in Lenior City. Students will still be enrolled at Greenback for the first half of the day and will report to the LCTC for the second half of the day. This program is paid for through the dual enrollment grant and will require students to fill out an application.

### **Dual Enrollment Diesel Technology**

This program offers training in the inspection and servicing of heavy trucks, training in the diagnosis and repair of the electrical systems of medium and heavy trucks and training in the testing and repairing of diesel engines and related systems. The course introduces students to proper procedures and practices for preventive maintenance and servicing, principles of electricity and electronics to diesel technology and develop diagnostic skills, and introduces fundamental principles of diesel engine operation. Students will learn to perform inspections, tests, and measurements for diagnosis and to perform needed repairs.

### **Dual Enrollment Welding**

This program is designed to provide students with the skills and knowledge to effectively perform cutting and welding applications used in the advanced manufacturing industry. Proficient students will develop proficiency in fundamental safety practices in welding, interpreting drawings, creating computer aided drawings, identifying and using joint designs, efficiently laying out parts for fabrication, basic shielded metal arc welding (SMAW), mechanical and thermal properties of metals, and quality control. Courses are offered at Loudon County Technology Center through Tennessee College of Applied Technology, Harriman.

# Graduation Honors

Based on the achievement of the following requirements, students will be given stoles or cords to wear at graduation. These requirements are reviewed by administration annually.

**Orange Stole: ACT Subtest(s) Honor**

Students who score a 29 or higher on any subtest of the ACT will wear orange stoles.

**White Stole: ACT Composite Honor**

Students who score a 29 or higher on the ACT composite will wear white stoles.

**HOSA Stole**

Students have two ways to earn a HOSA stole. The first is completing 10 hours of community service at HOSA sponsored events in the year. Additionally, students must attend 5 out of 7 meetings, attend a guest speak, participate in two fundraisers, and wear HOSA shirt for all events.

The second is by competing in HOSA competitions. Students must participate in the HOSA State Competition. Additionally, students must attend 5 out of 7 meetings, attend a guest speak, participate in two fundraisers, and wear HOSA shirt for all events.

**FFA Stole**

