



Soddy Daisy High School
2019-20
Curriculum Guide



Purpose

The purpose of this Curriculum and Academy guide is to present students and parents with all the information needed to register for classes for the 2019-2020 school year. SDHS designed this guide to answer questions and inform parents and students of all course options and offerings. However, we know there will still be questions and a need for conferences and more information. Please read carefully the following Timeline & Information to see opportunities for parents and students to be better informed and participate in the registration process.

Registration and Orientation Timeline & Information

A parent attending the registration conference is not mandatory. All students must have a registration conference with his or her counselor in order to have a schedule next year. Registration forms will be submitted at the conference with the counselor. Exceptional Ed. student's course requests will be discussed during their yearly meetings with their case managers. As a result, counselors may not conference with these students.

December Graduates

All students considering graduating in December of 2019

MUST return an early graduate form signed by their parent/guardian to Ms. Chamberlain by May 18, 2019

Counselor (for the 2019-2020 academic year)

9th grade

Kelly Jenó

jeno_kelly@hcde.org

10th grade

Mary Bridges

bridges_m@hcde.org

11th grade

Cheryle Hudson

HUDSON_C@HCDE.ORG

12th grade

Ellen Chamberlain

chamberlain_ellen@hcde.org

Graduation Requirements

<u>Subject</u>	<u>Credit</u>	<u>Course</u>
English	4	English I, II, III, and IV
Math	4	Algebra I, Geometry, Algebra II and one Advanced Math. Students must take math each school year.
Science	3 1	Biology, Chemistry or Physics and 1 lab science. Additional HCDE Science Elective (see next page)
Social Studies	3	World History and Geography, US History and Geography, Economics (.5) US Government & Civics (.5).
Wellness	1	
PE	.5	
Personal Finance	.5	
Foreign Language	2	(same language)
Fine Arts	1	
Major Elective Focus	3	
Capstone Experience		More information to be provided.

A satisfactory record of attendance and conduct is required for all graduates. Students are required to take the ACT or SAT and are required to take all TN Ready End of Course exams in order to meet graduation requirements.

*Students must take a math class all 4 years of high school.

*Algebra 1A, Geometry A, and Algebra 2A do not satisfy Math requirements for graduation. These classes only count toward the elective course requirements.

28 credits- Block (schools that offer 8 or 9 credits/year)

Approved HCDE Additional Science Elective Courses (SDHS does not offer all of these courses)

Chemistry A	Biology A
Geology*	Aquatic Biology*
Biology 2*	Scientific Research-Energy*
Anatomy & Physiology*	Ecology*
Chemistry 2*	Physical World Concepts*
Environmental Science*	Nursing Education
Health Science Education	Medical Terminology
Forensic Science*	Nutrition Across the Lifespan
Medical Terminology	Design Principles of Cosmetology
Child & Lifespan Development	Culinary Arts III (pre-req. Culinary Arts 1&2)
Landscaping Turf Science	Electrical Systems (pre-req. MEP 1 & 2)
Principles of Plant Science & Hydroculture	STEM Applications I* & II*
Mechatronics I & II	IB Environmental Systems
Introduction to GIS	Advanced Drafting & Design
Principles of Manufacturing	Engineering Design I & II
Robotics & Automated Systems	AgriScience*
Scientific Research*	Physics A*
Nutrition Science & Diet Therapy*	Alternative Energy
Maintenance & Light Repair III	IB Chemistry*
IB Biology*	IB Physics*
IB Exercise Science	Applied Environmental Science*
Principals of Engineering*	

*These courses also meet the requirement of a lab science.

Grading Scale

Letter Grade	Description	Numeric Scale
A	Excellent	93 – 100
B	Very Good	85 – 92
C	Average	75 – 84
D	Below Average	70 – 74
F	Failure	Below 70

Students taking Honors (3 points), Dual Enrollment (4 points), and Advanced Placement (5 points) classes may have grades above 100 at the semester because students participating in these classes receive extra points on their final grade. All other classes not listed above, a 100 is the highest grade allowable.

Credits and Grade Point Averages

Each course that is passed with a grade of 70 or higher will receive credit as noted in the Course Descriptions. GPAs and class rankings are calculated using the 100-point numeric scale and are updated at the end of each semester. Grade point averages will be to the hundredth.

Computing Grade Point Averages

GPAs are computed using the numerical grades earned for each course for each semester. Credit is awarded one time per course unless otherwise noted in the Course Description. Repeated courses remain on transcripts; but grades from courses changed to audits upon successful repetition of the courses will not be included in the calculation.

Graduation Requirements

To meet the requirements for high school graduation in the Hamilton County School System, a student must:

- Successfully complete all curriculum requirements.
- Earn the specified units of credit.
- Have satisfactory records of attendance and conduct.
- Successfully complete the Senior project
- Take the ACT or SAT
- Take all required TN Ready End of Course exams

Valedictorian and Salutatorian

- Valedictorian: The student must have the highest numerical average, rounded to the nearest hundredth. The valedictorian's course selection for his or her four years of high school must include core courses required for graduation from the highest level offered in English, mathematics, social studies, and science at each high school. The valedictorian must be enrolled in the school from which he or she graduates at the beginning of the junior year.
- Salutatorian: The student must have the second highest numerical average, rounded to the nearest hundredth. The salutatorian's course selection for his or her four years of high school must include core courses required for graduation from the highest level offered in English, mathematics, social studies, and science at each high school. The salutatorian must be enrolled in the school from which he or she graduates at the beginning of the junior year.
- Students can be enrolled at any time to be eligible for Class Rank, senior awards, and other recognitions. However, for valedictorian and salutatorian, the student has to enroll prior to starting the junior year.

Repeating Courses to Improve a Grade

Students may repeat courses to improve their grade point average, provided that this is not for valedictorian determination. For determining valedictorian, only ninth grade students may repeat a course to improve their grade point average if the student took the high school course in middle school. The highest grade earned in a course, which has been repeated, will be used in determining a student's grade point average and class rank for all other purposes other than determining valedictorian. There is no time limit on repeating courses for the single purpose of improving a GPA.

College Entrance Examinations

College entrance examinations include the ACT and SAT. These examinations are administered several times per year. Every junior is required to take the ACT. A one-time voucher for each student is available either the junior or senior year, which may be used to register for either the ACT or SAT at no charge.

Advanced Placement Courses

Students who choose to take Advanced Placement (AP) courses must be committed to the accelerated academic demands necessary to the course and to taking the national exam in May. Students enrolling in AP classes should have at least an overall 3.0 GPA and have earned at least a B in the prerequisite course for the AP class. Due to the difficulty of the AP courses, students who take these courses will have 5 points added to their semester grades *after they take the AP exam*. AP exam fees must be paid prior to March 1st. Purchase of the required texts for these courses are the responsibility of the student. The current AP exam fee is \$94 per course; this is subject to change without notice. Students are responsible for a \$45 restocking fee per test if they do not take the exam. There will be no fee increase for 2019-2020, but students taking the May 2020 test will have to register online by November 15, 2019. If they cancel their registration after that date, they will have a \$40 fee to pay.

Advanced Placement planned course offerings for the 2019-2020 year include:

- AP English 11 Language and Composition
- AP English 12 Literature and Composition
- AP Calculus AB
- AP Calculus BC
- AP United States History
- AP Computer Science Principles
- AP Computer Science A
- AP Studio Art
- AP World History
- AP Spanish
- AP Physics

College credit is awarded by many colleges and universities based on scores earned on AP examinations. AP scores range 1-5. *Students should verify with their college of choice if AP credit will transfer, as simply scoring a **3 (which is considered passing)** does not ensure a student will receive college credit.*

Dual Enrollment Courses

The Dual Enrollment program offered in partnership with University of Tennessee-Martin allows SDHS students to earn college credit during the regular school year. Admission to this program is contingent upon:

1. A cumulative grade point average of 3.0 or higher (this is for ALL DE classes).
2. Appropriate ACT subscore for desired class (not all DE courses have an ACT requirement).

Students may take 4 free classes from UT-Martin using the dual-enrollment grant. Students will register for this during the school day with their appropriate counselor. After the 4th free class, the following fees apply: For the 2018-2019 academic year, tuition is \$346 per credit hour (3-hour is \$1,038, 4-hour is \$1,384, and 5-hour is \$1,730). Students would be eligible to borrow \$300 for each course. So, if the student is taking a 3-hour course, they would have to pay \$738 out-of-pocket, 4-hour would be \$1,084, 5-hour would be \$1,430. Please keep in mind students can set up a payment plan with the Bursar's Office, which will spread the cost over the course of the semester.

Dual Enrollment courses currently offered include:

- DE English 1010 and 1020, Composition I and Composition II
- DE College Algebra, Pre-Calculus, Statistics, Calculus I and II
- DE US History
- DE Psychology

Requirements for Dual Enrollment at SDHS:

For English Composition 1, students should have a minimum of a B in Honors English or an A in regular English to receive a counselor recommendation. We will also look at ACT scores to determine College Readiness.

For Math Course selection, students should refer to the chart below to determine proper placement.

If a student falls below a 3.0 in a DE class, they will lose eligibility for the DE Grant. They will no longer be eligible for free classes from UT Martin for Dual Enrollment.

The following is the ACT Placement Table for dual enrollment math courses:

ACT Placement – Math Subscore Requirement		
27-36	Math Subscore	MATH-251 Calculus 1,2
24-26	Math Subscore	MATH-210 Statistics
23	Math Subscore	MATH-185 Pre-Calculus
20-22	Math Subscore	MATH-140 College Algebra

College credit is awarded by UT-Martin for successful completion of Dual Enrollment Courses. College credit is also awarded by other colleges and universities for successful completion of Dual Enrollment courses; students should verify with their colleges of choice that Dual Enrollment credits will be transferable.

State-Dual Credit Courses

Statewide dual credit classes are college-level courses taught at the high-school level by trained high-school teachers. Course learning objectives are developed by Tennessee high school and college faculty in order to ensure alignment with post-secondary standards. All statewide dual credit courses are approved by the Consortium for Cooperative Innovative Education before they can be offered as a part of the state's current pilot program.

All students enrolled in a statewide dual credit course take the online challenge exam, which is used to assess mastery of the postsecondary-level learning objectives. Students which meet or exceed the exam 'cut score' receive college credit that can be applied to any Tennessee public postsecondary institution. Exam scores are reported on the high school transcript to ensure postsecondary credit is accurately awarded, but are not used in any state accountability measures.

State-Dual Credit courses currently offered include:

- Speech and Communications
- Pre-Calculus
- Introduction to Probability and Statistics
- US History
- World History

These courses receive 4 points applied to the semester grade upon taking the challenge exam.

What is the difference?

AP, Dual Enrollment, and Dual Credit

AP, Advanced Placement, is recognized at both public and private institutions. [Exam required to award credit] (\$94 exam fee)

You must take a National test at the end of the course. It is scored from 1-5. Based on the score you receive, you may be eligible to receive credit for a college course. Each college has its own requirements for awarding placement or credit. Typically, for certain subjects, you must score a minimum of a 3, but some courses require a score of a 5. Check the website of the college in which you are interested to see the required scores and what courses they will consider.

What is advanced placement and how is it different from credit? (College Board Website)

Advanced placement that is awarded based on your AP Exam scores allows you to skip introductory classes, enter higher-level classes and/or fulfill general education requirements. Placement is not the same thing as credit, which

means you actually earn points toward your college degree. Colleges may offer both credit and placement, just credit or just placement for successful AP scores. Visit your college's website or talk to an admission officer to find out which kind of recognition is offered.

Dual Enrollment is when a high school student is enrolled in a college course and upon successful completion of that course will receive both high school and college credit.

In a Dual Enrollment course, you are starting your college transcript. You will receive the credit hours in each course that you successfully complete and those hours will transfer to the college you plan to attend after graduation. Generally, most schools that SDHS students attend will accept Dual Enrollment credit. Highly competitive private institutions would prefer AP and may not honor the DE credit for the course that was taken in high school. Students should examine the policies of awarding credits at the college in which they plan to attend.

Dual Credit is recognized at all Tennessee public postsecondary institutions (TN Board of Regents and University of Tennessee Schools). [Exam required to award credit] (\$-no cost to student)

Private institutions determine their own policies on awarding credit for statewide dual credit exams.

Students enrolled in a Dual Credit course are required to take the exam at the end of the course. This differs for Dual Enrollment because you are not accruing credit hours, but are testing out of a course. Students who do qualify for Dual Enrollment and plan to attend a Tennessee public institution for college should consider this option.

Honors Courses

Soddy Daisy High School offers the following Honors courses. These courses receive 3 points applied to the semester grade.

Honors Algebra I	Honors English 9	Honors Environmental Science
Honors Geometry	Honors English 10	Honors Spanish 3
Honors Algebra II	Honors English 11	
Honors Pre-Calculus	Honors World History and Geography	
Honors Chemistry	Honors US History	
Honors Physics	Honors Economics	
Honors Anat & Phys	Honors Government	

Teacher's Assistant Guidelines

Seniors who are interested in working as a Teacher's Assistant may apply if they meet the following criteria:

- Student must be a senior.
- Student must have earned a minimum of 22 credits through his or her junior year.
- Student must be meeting all graduation requirements.
- Student must have satisfactory attendance.
- Student should not have any discipline infractions.

Teachers' Assistants are selected and placed at the discretion of school personnel. Students requesting to be a teachers' assistant must be willing to complete all assigned duties and must be willing to accept any assigned teacher placement. Each teacher may have only one aid and this aid cannot be one during the teacher's planning period.

Online Credit Accrual/Credit Recovery Courses

Several courses are available for students who need to earn recovery credit or who need to repeat courses.

Your guidance counselor will help you determine if you qualify for enrollment in these courses. In order to be

considered for online courses, the student must have acceptable attendance, no discipline issues, and shown significant work ethic in the regular course. Only second semester juniors and those students who are or should be seniors can take this class. **Students will not be placed in online courses to avoid a regular classroom setting or to raise their GPA. A student must be a second semester 11th grade student before this becomes an option.**

Athletic Eligibility- TSSAA

Soddy Daisy High School takes a great deal of pride in the athletic program. Students at Soddy Daisy have an opportunity to compete and excel in a well-rounded program. Academic eligibility for a student is based on the requirements of the school the student was attending at the conclusion of the previous school year. All credits must be earned by the first day of the beginning of the school year. Students who are ineligible first semester may gain eligibility second semester by passing three (3) classes during the 1st semester (3.0 credits). A student MUST purchase school insurance and pass a physical before being allowed to participate. Students will have to earn 6 credits to be eligible for the next school year and they must be enrolled in at least three credit courses during the semester of play. Students who plan to play college sports must enroll in the NCAA Clearing House by the end of the junior year.

Soddy Daisy High School fields teams in the following sports:

Fall Sports

Football
Soccer, Girls
Volleyball
Cross Country, Boys & Girls
Golf, Boys & Girls

Winter Sports

Basketball, Boys & Girls
Wrestling
Bowling, Boys & Girls

Spring Sports

Baseball
Softball
Track, Boys & Girls
Soccer, Boys
Tennis, Boys & Girls

December Graduation Information

Students wishing to graduate in December should turn in an early graduation form signed by their parent/guardian to their counselor. These students also should meet with the College/Career Counselor by the end of their junior year to receive information about postsecondary options and planning and to receive information about the requirements for FAFSA, HOPE, TN PROMISE, and other scholarships. December graduates cannot participate in extracurricular activities during the spring semester.

Important Freshman Information

- Students will be placed in either Algebra 1A or 1B, Honors Algebra 1A or 1B, or Honors Geometry A and B based on their middle school grade and credit.
- Students will be placed in the Honors English 9 based on their eighth grade scores. This class is considered to be preparatory Advanced Placement (pre-AP); therefore, students must commit to the rigorous course content.
- Freshmen who have earned credit in eighth grade for Spanish 1 should plan to take Spanish 2 during their freshman year in the fall semester.

English Department

The English Department curriculum stresses sequential writing, reading, analysis of literature, and vocabulary study. Summer Reading is required as part of every English course and students will be tested at the beginning of the school year even if the student does not have his or English class until the spring semester. Summer Reading lists will be handed out in the spring and can be found on the school website.

Four credits in English are required for Graduation:

- One credit in English 9 or Honors English 9
- One credit in English 10 or Honors English 10
- One credit in English 11, Honors English 11, AP English 11, or DE Comp 1
- One credit in English 12, Dual Enrollment-Comp 1 or 2, or AP English 12 (two semesters required for AP to count as graduation requirement)

**Dual Enrollment English 1010, 1020 Composition I, II (11th graders may take 1010)
Credit: 1 per semester Prerequisite: 3.0 GPA**

This course earns a student both high school and college credit. English 1010 is a non-fiction composition course. English 1020 focuses more so on writing about literature. These are taught by certified college instructors who also are SDHS teachers. UT-Martin is accredited by the Southern Association of Colleges and Schools, which means that the courses will transfer all over the nation. Students should verify with their college to see exactly how DE English will transfer. Completion of Senior Project is required.

**Advanced Placement English 12 Literature and Composition
Credit: 2 Prerequisite: 86 GPA; Teacher Recommendation
Course Fee: \$94 Exam Fee; \$50 Additional books**

This course is designed to engage students in the careful reading and critical analysis of imaginative literature. Through the close reading of selected texts, students can deepen their understanding of the ways writers use language to provide both meaning and pleasure. As they read, students should consider a work's structure, style, and themes, as well as the use of figurative language, imagery, symbolism, and tone. This class meets every day all year. Students must participate and pass both semesters of this course to meet graduation requirements. If a student elects to not participate in the second semester of this course, for graduation requirements, he or she must take English 12 or a dual enrollment English class. Students are required to take the AP exam in May

**English 12
Credit: 1 Prerequisite: 12th grade student**

Students read selections from British literature as well as selections from other English-speaking nations. Writing is an emphasis with a focus on multiple revisions and a research project. Students practice critical thinking skills in relation to literature and explore the contemporary world through non-fiction writing as well as the modern novel.

**Advanced Placement English 11 Language and Composition
Credit: 1 Prerequisite: 86 GPA; Teacher Recommendation
Course Fee: \$94 Exam fee; \$50 Additional books**

This course is designed to help students become skilled readers of prose written in a variety of periods, disciplines, and rhetorical contexts and to become skilled writers who can compose for a variety of purposes. By their writing and reading in this course, students should become aware of the interactions among a writer's purposes, audience expectations, and subjects, as well as the way rhetorical strategies and the resources of language contribute to effective writing.

**English 11
Credit: 1 Prerequisite: 11th grade student**

This survey course in American Literature explores major literary movements and their representative authors while focusing on writing in different modes and styles, including personal narratives, literary analysis, and research.

**Honors English 10
Credit: 1 Prerequisite: 86 GPA/Teacher Recommendation**

This course is a college-preparatory class in which strong reading and writing skills are required. Literary skills will be further developed by reading, discussing, analyzing and writing about these challenging pieces. Formal and informal activities will present students with the opportunity to strengthen their speaking and listening skills. This course equips students to understand such things as charts, graphs, special effects in movies, painting, diagrams, etc. This course will also prepare students for the English II TN-Ready test.

**English 10
Credit: 1 Prerequisite: 10th grade student**

This course is designed to further students' reading, writing, speaking, and thinking skills. A survey of literary terms, types, and periods will be studied with a strong emphasis on Western traditions and culture. Essays and weekly writings will be stressed, and students will prepare for the English II TN-Ready Test.

English 9

Credit: 1

Prerequisite: 9th grade student

This course includes a review of grammar concepts and paragraph and essay development. Students study vocabulary. Emphasis is on short stories, novels, drama and poetry. Students study Shakespeare's Romeo and Juliet. Research skills such as note writing and paraphrasing are emphasized. Students write essays based on a variety of subjects.

Honors English 9

Credit: 1

Prerequisite: 86 GPA/Teacher Recommendation

This course is a college-preparatory class. Strong reading and writing skills are required. The course includes an in-depth research paper combining content from both English and geography. Students will study poetry, short stories, novels, and drama.

State-Dual Credit Speech

Credit: 1

Prerequisite: Junior/Senior class

This course covers the fundamentals of speech and communication. The topics covered in the course will include and exploration of the following: elements of communication, group communication, intercultural communication, interpersonal communication, the nature and value of language, nonverbal communication, persuasion-the art of rhetoric, public speaking, and the value of listening. At the conclusion of the course, each student will take a challenge exam composed of 100 multiple choice questions and a videotaped speech. If the student scores a passing score, he or she will earn credit for a college speech course that can transfer to most TN state-funded institutions.

Math Department

Four credits in math are required for graduation. Every student is required to take a math yearly.

- Algebra 1A, Geometry A, and Algebra 2A receive an elective credit for these courses. They do not satisfy the advanced math requirement.
- One credit in Algebra 1
- One credit in Geometry
- One credit in Algebra 2
- One additional credit in math from the following list: Statistics, DE Statistics, DE PreCalculus, AP Calculus, AP Computer Science, DE Calculus 1, and Bridge/SAILS classes are presently offered as advanced math courses.
- **Course Fee: Each math course has a fee of \$10 per semester. This does not include the dual enrollment courses. These fees are set by UT-Martin.**

Algebra 1A/Algebra 1B

Credit: 1 each course

Prerequisite: 9th grade student

Algebra 1A is a math course where the student is introduced to concepts including, but not limited to operations with integers, linear equations and systems, exponents and radicals. This course utilizes real world situations which are designed to reinforce algebraic concepts. This course is awarded one elective credit.

Algebra 1B is the final semester of the study of Algebra 1. Concepts studied include, but are not limited to, quadratic functions, polynomials, exponential functions and statistical measures. At the end of the course, students will take the TN-Ready exam in Algebra 1 and will be awarded one math credit.

Honors Algebra 1A/Algebra 1B- 9th Grade

Credit: 1 each course

Prerequisite: 86 GPA/

Teacher Recommendation

Algebra 1A is a math course where the student is introduced to concepts including, but not limited to operations with integers, linear equations and systems, exponents and radicals. This course utilizes real world situations which are designed to reinforce algebraic concepts. This course is awarded one elective credit.

Algebra 1B is the final semester of the study of Algebra 1. Concepts studied include, but are not limited to, quadratic functions, polynomials, exponential functions and statistical measures. At the end of the course students will take the TN-Ready exam in Algebra 1 and will be awarded one math credit.

Honors Geometry A/Honors Geometry B

Credit: 1 per course

Prerequisite: 86 GPA/Teacher Recommendation

Geometry covers polygons, areas, volume, triangles, inductive and deductive reasoning, coordinate geometry with graphing, and concurrency. Geometry includes transformations, similarity, congruence, quadrilaterals, circles, and trigonometry. Geometry A is awarded one elective credit; Geometry B is awarded one Math credit with completion of TN-Ready exam.

Geometry A/Geometry B 10th – 12th Grade

Credit: 1 per course

Prerequisite: Counselor Approved

This course includes the same topics as discussed in the semester Geometry course but is designed to allow additional time for remediation and reinforcement of skills and concepts. Geometry A is awarded one elective credit; Geometry B is awarded one Math credit with completion of End of Course Exam.

Honors Algebra 2A/Algebra 2B

Credit: 1 per course

Prerequisite: 85 or above in H Geometry B

This course includes solving linear and quadratic equations and inequalities, functions such as radical, logarithmic, exponential, polynomial, rational and trigonometric along with introductions to probability and statistics. The state EOC exam will conclude this course. This course strongly recommended for sophomores who received a B or above in Honors Geometry B. Algebra 2A is awarded one elective credit; Algebra 2B is awarded one Math credit.

Algebra 2A/Algebra 2B

Credit: 1 per course

Prerequisite: Algebra 1 and Geometry

This course includes solving linear and quadratic equations and inequalities, functions such as radical, logarithmic, exponential, polynomial, rational and trigonometric along with introductions to probability and statistics. The state EOC exam will conclude this course. This course allows for additional time for remediation and reinforcement of skills and concepts. The state EOC exam will conclude this course. Algebra 2A is awarded one elective credit; Algebra 2B is awarded one Math credit.

DE College Algebra and Elementary Functions (Math 140)

Credit: 1 (3 hours UTM credit)

Prerequisite: 3.0 GPA/11th grade/20-22 ACT Math

Selected topics from algebra including functions (e.g., polynomial, exponential, and logarithmic), zeroes of polynomials, solutions of systems of equations and inequalities and matrices.

Honors Pre-Calculus (State Dual Credit)

Credit: 1

Prerequisite: Honors Algebra 2

The Honors Pre-Calculus course is designed for those students who have demonstrated ability and interest in mathematics courses. The concepts discussed in this course include functions analysis and trigonometry. Students will be required to take a final exam to determine state dual credit status upon completion of the course.

Advanced Placement Calculus AB

Credit: 2 (must take both semesters)

Prerequisite: Honors Pre-Calculus or Dual Enrollment Pre-Calculus

Exam fee: \$94

This course will cover topics including functions, graphs and limits, derivatives, integrals, and real world applications for each topic. Students will approach study of these concepts: analytically, graphically, numerically and verbally. The course finishes with an intense review period to prepare for the AP exam. This course will meet every day both semesters and students will receive 2 credits. Students are required to take the AP exam in May.

Advanced Placement Calculus BC

Credit: 1

Prerequisite: DE Calculus I or AP Calculus AB

AP Calculus BC is roughly equivalent to both first and second semester college calculus courses and extends the content learned in AB to different types of equations and introduces the topic of sequences and series. This course covers topics in differential and integral calculus, including concepts and skills of limits, derivatives, definite integrals, the Fundamental Theorem of Calculus, and series. You will learn how to approach calculus concepts and problems when they are represented graphically, numerically, analytically, and verbally, and to make connections amongst these representations. You will also learn how to use technology to help solve problems, experiment, interpret results, and support conclusions.

Statistics

Credit: 1

Prerequisite: Algebra 2; recommended ACT math score above 19

This course covers topics including data collection and analysis, probability, multiple distributions and confidence intervals. This course is appropriate for students planning to major in a variety of fields including psychology, sociology, education, health, business, economics, engineering, humanities, sciences, journalism, communications, and liberal arts. This course is for seniors unless approved by instructor or counselor.

Statistics (State Dual Credit)

Credit: 1

Prerequisite: Algebra 2; recommended ACT math score above 19

This course covers topics including data collection and analysis, probability, multiple distributions and confidence intervals. This course is appropriate for students planning to major in a variety of fields including psychology, sociology, education, health, business, economics, engineering, humanities, sciences, journalism, communications, and liberal arts. This course is for seniors unless approved by instructor or counselor. Students will be required to take a final exam to determine state dual credit status upon completion of the course.

DE Statistics I (Math 210)

Credit: 1 (3 hours UTM credit)

Prerequisites: Algebra 1 & 2 and ACT math score above 24/3.0 GPA

In this course students will study descriptive measures for collected data, elementary probability, sampling, random variables, discrete probability distributions, normal probability distributions, and introduction to inference theory.

Bridge/SAILS Class – Seniors Only

Credit: 1

Prerequisites: Algebra 1, Geometry, Algebra 2 and appropriate ACT score

The Bridge class is a course designed to serve as a review of topics covered in Algebra 1, Geometry, and Algebra 2. **Only seniors may enroll in this course and they must have an ACT math score of 19 or below.** Upon successfully passing this course, the student will receive one credit which may serve as one of the four required math credits for graduation. Juniors are not permitted to enroll in this course.

DE Calculus 1 (Math 251)

Credit: 1 (4 hours UTM credit)

Prerequisites: Two units of high school algebra, one unit high school geometry, 1/2 unit high school trigonometry, and appropriate mathematics placement OR completion of EITHER Math 170 with a grade of C or better OR MATH 185 with a grade of C or better or Math ACT score of 27 or more.

Limits and continuity. Derivatives and integrals of polynomial, exponential, logarithmic, trigonometric, and hyperbolic functions.

DE Calculus II (Math 252)

Credit: 1 (4 hours UTM credit)

Prerequisites: A grade of C or better in MATH 251 is required to enroll in MATH 252. Math ACT score of 27 or more

Techniques of integration, conics, parametric and polar equations, indeterminate forms, and improper integrals. Infinite series, including Taylor's series.

Advanced Placement Computer Science Principles

Credit: 1

Prerequisites: H Pre-Calculus, DE College Algebra or DE Pre-Calculus

AP Computer Science Principles is an introductory class to computer science with a focus on computational thinking and the tools needed to analyze, study, and work with large data sets to draw conclusions from trends. This course is interdisciplinary as students explore how computer software and other technology can be used to solve problems. It will focus on the ethical implications of technology alongside the mechanical components.

The Computer Science Principles curriculum is an entry-level course that introduces high school students to the foundations of modern computing. The course covers a broad range of foundational topics such as programming and coding (in both Python and JavaScript), algorithms, Internet protocols, big data, digital privacy and security, and the societal impacts of computing.

Language: Python

Prerequisites: No prior CS experience required, however, completing *Coding I* prior to taking this class will be extremely helpful for learning Python. Algebra I preferred.

Advanced Placement Computer Science A

Credit: 1

Prerequisites: H Pre-Calculus, DE College Algebra or DE Pre-Calculus

AP Computer Science A is a programming class in Java, a popular in-demand programming language. Java is used to build server-side applications, games, and financial applications, and is the core foundation for developing Android apps. Students will be introduced to topics that include problem-solving, design strategies and methodologies, organization of data (data structure), approaches to processing data (algorithms), analysis of potential solutions, and the ethical and social implications of computing.

Language: Java

Prerequisites: AP Computer Science Principles required. Algebra II preferred.

Amazon Future Engineer Program (SDHS was accepted into the Amazon Future Engineer Program in January 2019). Amazon has established a scholarship program to assist high school seniors who are taking or have completed an advanced placement computer science course who plan to continue their education at an accredited four-year college or university majoring in computer science, software engineering, computer engineering or other computer related field of study.

The 2019 Scholarship included \$10,000 for 4 years (\$40,000) and includes and paid internship at Amazon after your 1st year of college. 100 scholarships from Amazon will be given in the spring of 2019.

Coding I

Credit: 1

Prerequisites: None

Coding I is an introductory course intended to teach students the basics of computer programming. It is an interactive introductory course for students brand new to programming that teaches the foundations of computer science using the Python language. Not only will this course prepare students for AP Computer Science Principles and/or AP Computer Science A, but it will teach students how to think computationally and solve complex problems, skills that are important for every student. This introduction to computer science course is a great starting point for a student new computer science.

Language: Python

Prerequisites: No prior CS experience required.

Science Department

Students must earn four credits in science.

- One credit in Biology I
- One credit in Chemistry or Physics
- Two credits in lab sciences. Lab science courses presently offered: Environmental Science, Physical World Concepts, Marine Science, Anatomy & Physiology

Biology 1

Credit: 1

Prerequisite: 11th grade student/Chemistry

This course for 11 – 12 students is a survey of the life sciences designed to allow the student to acquire a clear understanding and mastery of key biological concepts and ideas, to master science process skills through laboratory investigation, to develop a proficiency in critical thinking and problem solving, and to stimulate an appreciation of an interest in all other sciences. Emphasis will be placed on process and inquiry skills. This course will also prepare students for the TN-Ready Exam.

Chemistry

Credit: 1

Prerequisite: 10th grade student, Alg. 1

This course deals with the composition, structure, and properties of matter and the changes which take place during interaction. Subject areas included are matter and energy, atomic theory and structure, nomenclature, measurements and calculations, and chemical reactions. Laboratory investigations are a part of this course.

Honors Chemistry

Credit: 1

Prerequisite: 10th grade, Alg. II

This first-year chemistry course is designed for students desiring a more intensive study of chemistry. Math and laboratory science will be emphasized. Topics include structures and state of matter and types of reactions.

Environmental Science

Credit: 1

Prerequisite: 9th grade student

This course is designed to increase knowledge and skills in all areas of science through real world applications. Students investigate fundamental ecological principles, earth's natural resources, energy sources and their uses, population dynamics, and human interactions with the environment. The concepts studied relate to future classes in both biology and other college courses in natural sciences.

Physics

Credit: 1

Prerequisite: Geometry/Alg. 1

In this first-year physics course, students will obtain background in Newtonian physics, kinematics, waves, energy and electromagnetics. An emphasis will be placed on practical applications of physics and scientific investigations and solving problems using algebra. A good algebra background will be required for this class.

Honors Physics

Credit: 1

Prerequisite: Algebra 2

This course covers Newtonian mechanics in depth using advanced math skill and laboratory investigations. Successful completion of this course will prepare students for pre-engineering or introductory physics at the college or university level.

AP Physics

Credit: 1

Prerequisite: Pre-Calculus

Co-requisite: Calculus (suggested)

The AP Physics C: Mechanics course is equivalent to a one-semester, calculus-based, college-level physics course. It is especially appropriate for students planning to specialize or major in physical science or engineering. The course explores topics such as kinematics; Newton's laws of motion; work, energy and power; systems of particles and linear momentum; circular motion and rotation; and oscillations and gravitation. Introductory differential and integral calculus is used throughout the course.

Honors Anatomy and Physiology

Credit: 1

Prerequisite: Biology I/12th grade student

This course deals with the study of the human body, the processes and functions that occur daily. This is a research-based class that will allow students to explore the anatomy and physiology of different body systems.

Marine Science

Credit: 1

Prerequisites: One previous science credit

Marine science is a one-year course consisting of one term of marine biology followed by one term of oceanography. In marine biology, the emphasis is on the study of life in the sea. In oceanography, the focus is on the physical setting of the ocean, including topics in light, temperature, pressure, sound, and water chemistry. Understandings in biology, chemistry, physics and earth science are interwoven to produce an interdisciplinary science. Updated marine technologies are also included. Mathematics is infused whenever and wherever possible, thereby, strengthening student skills in calculations and problem solving.

Physical World Concepts – 9th Grade

Credit: 1

Co-requisite: Algebra I

This course offers a background in Newtonian mechanics, atomic science, electricity and magnetism, waves and optics and thermodynamics. An emphasis is placed on practical applications of physics through scientific investigations and problem solving using basic algebra.

Forensic Science – 11th or 12th grade

Credit: 1

Prerequisites: Biology I and/or Chemistry and/or Physics

Forensic Science will be a course emphasizing science and technology. The student will learn to apply science to law. This will be done through reading, case studies, laboratory investigations, hosting guest speakers, and simulations. The course will cover topics such as: securing and recording a crime scene, dealing with physical evidence, autopsies, and properties of various types of physical evidence, drugs and toxicology, blood analysis, DNA analysis, hairs and fibers, trace evidence, arson investigation, fingerprints, ballistics, handwriting and document analysis, and computer and internet forensics. *Due to the mature nature of the content of the course, parental consent is suggested for those students under the age of 18.

Biology II

Credit: 1

Prerequisites: Biology I and Chemistry and/or Physics

Biology II will be a course emphasizing independent study, as well as, community outreach in regards to the biological sciences. In the classroom, students will: organize and maintain a school-wide recycling program, work to maintain a campus garden, develop and implement lessons for elementary students, research a variety of animal species and participate in comparative dissections, study local watersheds and participate in a freshwater monitoring program. Other topics may be added at the instructor's discretion.

Social Studies Department

All students are required to earn three credits in Social Studies from the following areas:

- 1 credit in World History, Honors World History, or AP World History
- 1 credit in United States History, Advanced Placement United States History, or Dual Enrollment US History
- ½ credit in Economics (this requirement may also be satisfied by earning credit for Marketing 1)
- ½ credit in United States Government (this requirement may also be satisfied by earning credits in JROTC 1, 2, 3, 4, 5, and 6).

Advanced Placement United States History

Credit: 1

Prerequisite: 86 average in previous English course; Teacher Recommendation; Course Fee: \$94 exam fee;

This course is designed to provide students with the analytic skills and factual knowledge necessary to deal critically with the problems and materials in United States History. Students will learn to assess historical materials—their relevance to a given interpretive problem, their reliability, and their importance—and to weight the evidence and interpretations presented in historical scholarship, as well as develop the skills necessary to arrive at conclusions on the basis of an informed judgment and to present reasons and evidence clearly and persuasively in essay format. Students who have taken United States History may take this course for an elective credit. This course will meet every other day all year and students must also enroll in AP English 11.

Economics

Credit: .5

Co-requisite: United States Government

Students will acquire a basic knowledge of consumerism, supply and demand, taxation, and the role of government in the economy. Emphasis is consumer-oriented. This is a quarter-long course, which will be coupled with United States Government. Earning a credit in Marketing I will satisfy the graduation requirement for economics.

Personal Finance

Credit: .5

Prerequisite: 11th grade student

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

United States Government

Credit: .5

Co-requisite: Economics

Students will study the United States government and political system as well as other types of government. Special emphasis is given to developing an understanding of the United States Constitution and the rights and responsibilities of citizenship. This is a quarter-long course, which will be coupled with Economics. Special Note: Earning credits for JROTC 1, 2, 3, 4, 5, and 6 will also satisfy the graduation requirement for Government.

United States History

Credit: 1

Prerequisite: 11th grade student

This course consists of the chronological history of the United States of America beginning with the post Reconstruction Era following the Civil War. Special emphasis will be placed on the 20th century. The course will look at the cause and effect relationship that has bridged the nation's past to its present. Study will stress the uniqueness of the United States, its people, and the events that have shaped who we are today. State EOC test is administered at the end of this course and will count as the course final 20%.

World History & Geography

Credit: 1

Prerequisite: 9th grade student

Students study the history of humankind with a more concentrated focus from the Renaissance to present day. The six social studies standards of essential content knowledge and four process skills are integrated for instructional purposes. Students will utilize different methods that historians use to interpret the past, including points of view and historical context.

Tennessee History

Credit: 1

Prerequisite: 9th or 10th grade student

Students will examine the history of Tennessee, including the cultural, geographic, economic, and political influences upon that history. Students will discuss Tennessee's indigenous peoples as well as the arrival of EuroAmerican settlers. Students will analyze and describe the foundation of the state of Tennessee. Students will identify and explain the origins, impact, and aftermath of the Civil War. Students will discuss the rise of a

manufacturing economy. Finally, students will examine and discuss the Civil Rights Movement and Tennessee's modern economy and society.

Dual Enrollment US History

Credit: 1

Prerequisite: 11th/12th grade student

History of the United States I: A study of the main currents and developments in American life from colonial times to 1877. SDHS students will take this course with an in-house social studies teacher in conjunction with a UT-Martin professor. This course meets the graduation requirements for US History.

AP World History

Credit: 1

Prerequisite: Teacher Recommendation

AP World History is designed to be the equivalent of a two-semester introductory college or university world history course. In AP World History students investigate significant events, individuals, developments, and processes in six historical periods from approximately 8000 B.C.E. to the present. Students develop and use the same skills, practices, and methods employed by historians: analyzing primary and secondary sources; making historical comparisons; utilizing reasoning about contextualization, causation, and continuity and change over time; and developing historical arguments. The course provides five themes that students explore throughout the course in order to make connections among historical developments in different times and places: interaction between humans and the environment; development and interaction of cultures; state building, expansion, and conflict; creation, expansion, and interaction of economic systems; and development and transformation of social structures.

State Dual Credit World History

Credit: 1

Prerequisite: 9th grader course

Statewide dual credit classes are college-level courses taught at the high-school level by trained high-school teachers. Course learning objectives are developed by Tennessee high school and college faculty in order to ensure alignment with post-secondary standards. All statewide dual credit courses are approved by the Consortium for Cooperative Innovative Education before they can be offered as a part of the state's current pilot program. All students enrolled in a statewide dual credit course take the online challenge exam, which is used to assess mastery of the postsecondary-level learning objectives. Students which meet or exceed the exam 'cut score' receive college credit that can be applied to any Tennessee public postsecondary institution. Exam scores are reported on the high school transcript to ensure postsecondary credit is accurately awarded but are not used in any state accountability measures.

Honors World History & Geography

Credit: 1

Prerequisite: Teacher Recommendation

The history of humankind with a more concentrated focus from the Renaissance to present day. The six social studies standards of essential content knowledge and four process skills are integrated for instructional purposes. Students will utilize different methods that historians use to interpret the past, including points of view and historical context. Students will also be introduced to basic geographic skill, terms and concepts. This course is considered Pre-AP. Honors students will learn and utilize strategies to maximize thinking. These will include (but are not limited to) extensive reading assignments, written responses for document based questions (DBQ's), and full participation in course discussions. Many assessments (daily work, tests and projects) will prepare students for successful future AP course work.

Contemporary Issues

Credit: 1

Prerequisite: 10th, 11th, 12th grade student

Students will use inquiry skills to examine the issues that impact the contemporary world. Included in the course will be analysis of the historical, cultural, economic, and geographic factors that have raised certain issues to levels of concern in our nation and around the globe. Students will engage in research and problem solving in order to better understand and assess significant current issues.

DE Psychology

Credit: 1

Prerequisite: 3.0 GPA/Junior/Senior class

This course is an introductory course which surveys the field of psychology, including the following major areas: research methods and findings, biological, learning and cognition, developmental, social, personality, and psychological disorders.

Sociology

Credit: 1

Prerequisite: 11th/12th grader

Students will explore the ways sociologists view society, and also how they study the social world. In addition, students will examine culture, socialization, deviance and the structure and impact of institutions and organizations. Also, students will study selected social problems and how change impacts individuals and societies.

Psychology

Credit: 1

Prerequisite: 11th/12th graders

Students will study the development of scientific attitudes and skills, including critical thinking, problem solving, and scientific methodology. Students will also examine the structure and function of the nervous system in human and non-human animals, the processes of sensation and perception, and life span development. Students will study social cognition, influence, and relations. Students will examine social and cultural diversity and diversity among individuals. Students will study memory, including encoding, storage, and retrieval of memory. Students will also study perspectives of abnormal behavior and categories of psychological disorders, including treatment thereof. Students will elaborate on the importance of drawing evidence-based conclusions about psychological phenomena and gain knowledge on a wide array of issues on both individual and global levels. Throughout the course, students will examine connections between content areas within psychology and relate psychological knowledge to everyday life. Students will explore the variety of careers available to those who study psychology

Fine Arts Department

One credit in fine arts is required for graduation.

Art 1

Credit: 1

Prerequisite: 10th grade student

Course Fee: \$25 Art supply fee

This is an introductory course in art, which emphasized basic techniques of drawing design, painting, printmaking, sculpture, art history, and art criticism. The course will expose students to all art media as well as major art periods/eras. Artistic ability is not needed, but a great willingness to learn and create is required.

Art 2

Credit: 1

Prerequisite: Art 1

Course Fee: \$25 Art supply fee

This course is for students who wish to further their artistic ability through concentrated effort on Elements of Art and Principles of Design with a particular emphasis on composition. Free-hand drawing techniques are practiced in-depth, as well as a continued study or art history, criticism, and aesthetics. Students will also be exposed to a variety of both two and three-dimensional media, including painting, printmaking, mixed-media, various dry media, and clay.

Art 3

Credit: 1

Prerequisite: Art 2

Course Fee: \$25 supply fee

This course offers students an opportunity to utilize skills and techniques acquired in Art 1 and 2 in a more personalized creative manner. Students continue media exploration through open-ended visual problem-solving assignments. Students keep a personal sketchbook for both “personal” projects as well as specific teacher assignments, and continue a more in-depth exploration of Elements, Principles, and Composition. Critiques and development of a personal aesthetic are a major focus of coursework.

AP Studio Art

Credit: 1

Prerequisite: Art 3

Course Fee: varies based on assignments

The AP Studio Art Program consists of three portfolio exams—2-D Design, 3-D Design, and Drawing—corresponding to the college foundation courses. Portfolios allow flexibility of coursework while guiding students to produce college-level quality, artistic investigation, and breadth of work. The Drawing portfolio addresses issues such as line quality, light and shade, rendering of form, composition, surface manipulation, the illusion of depth, and mark-making. Students' portfolios demonstrate skills and ideas developed, refined, and applied

throughout the course to produce visual compositions. Students may choose to submit any or all of the portfolios. Portfolios are evaluated based on standardized scoring descriptors aligned with skills and understanding developed in college foundation courses.

Auxiliary Band (Color Guard)

Grade Level: 9,10,11,12

Credit: 1 Unit

Prerequisite: By audition only

This class features the visual portion of the marching band. It will feature work with flags, rifles, sabers, and dance. Student will start out with basic technique on each of the pieces of equipment and continue working until all equipment is mastered. Student will be required to participate in all practices, camps, and performances of the Marching Band and will be required to attend the Winter Concert given by the marching band given at the end of the semester. All members of the Color Guard are required to be registered for this course to participate. Students will be required to dress out for participation in this class. Fees apply to be involved in this program. Fund Raisers will be required for participation.

Concert Band

Grade Level: 9,10,11,12

Credit: 1

Prerequisite: Director Permission, by audition, transfer, or recommendation from Middle School Director Fee: See Band Handbook

The concert band will focus on the learning of repertoire standards of wind bands throughout the world. Students will learn pieces by famous composers and present them to audiences in concerts throughout the semester. This class will also prepare students for performances at district concert festival, basketball games, and community events as requested. This class is also required for any student wishing to audition and participate in ETSB&OA sponsored events such as Jazz Clinic, All-State East Senior Clinic, Lower Area Junior Clinic, and Solo & Ensemble Festival. All concert performances are required.

Marching Band

Grade Level: 9, 10, 11, 12

Credit: 1

Prerequisite: Director Permission, by audition, transfer, or recommendation from Middle School Director Fee: See Band Handbook

The Marching Band is a highly competitive unit that performs for various performances throughout the summer and fall months. This portion of the band will feature a competitive field show that will be performed on Friday nights for football games and on selected Saturdays for competitions. The band will take part in various parades throughout the summer and fall as well as various community events when invited. All 9th grade and new members are required to attend our Rookie Camp. This camp is to teach new members how to march so that they are able to participate in parades and the marching field show. All Color Guard and Percussion Members are required to attend Summer Training. ALL MEMBERS are required to attend FULL BAND CAMP which is the last week of July. ALL MEMBERS are required to attend after school rehearsals that are scheduled from 3:00pm-6:00pm on Tuesday and Thursday once school starts. Students who desire to be a member of the marching band but have a scheduling conflict and cannot register for the class must see the director in order to participate. Students enrolled in Dual Credit Courses must see the director for information regarding participation. Fees apply to be involved in this program. Fund Raisers will be required for participation.

Music History (Music Appreciation)

Credit: 1

Prerequisite: 9th-12th grade student

This class will focus on the art forms that we hear every day throughout our world's culture. Students will start this class learning the music of other cultures and how it relates to their own, continue by learning a basic historical timeline for music, and finish with an analysis of music from the United States and how it is currently used in our culture. Students will learn basic music principles such as melody, rhythm, harmony, and theory. Students will be required to keep a notebook in this course

Forensics
Credit: 1

Prerequisite: 9th-12th grade student
Course Fee: No set fee. Students pay for entry fees, meals, travel, lodging for competition

Forensics is a competitive acting team. Students rehearse during class time to prepare for tournaments. All students are required to attend and compete in tournaments throughout the semester. These tournaments will require travel. Attendance at tournaments is a major factor in the student's overall grade. Students are required to pay for tournament fees, team shirts and hotel stays. Students may participate in forensics all four years.

Introduction to Theatre Arts

Credit: 1

Prerequisite: 9th-12th grade student

Theatre Arts is designed to give the student an overall appreciation of the performing arts. It will acquaint the student with the basics of acting through voice, body and sensory exploration. In addition, it will include the fundamentals of play production, technical theatre and theatre history.

Foreign Language

Students must earn two credits in foreign language in the same language.

Spanish 1

Credit: 1

Prerequisite: 10th grade student

This course introduces students to thematic vocabulary units with a later emphasis on present-tense verb structure. Reading, writing and culture are emphasized. Students' auditory and oral abilities are practiced with the goal of communication. Students should try to take Spanish 1 and Spanish 2 in the same year.

Spanish 2

Credit: 1

Prerequisite: Spanish 1

This course is a continuation of the study of vocabulary and grammar with a more in-depth emphasis on grammatical structure. In addition to review of Spanish 1 concepts, students will study present progressive, reflexive, imperfect, future, conditional, and preterit construction. Reading, listening, and conversation with communication skills will be incorporated to improve fluency in Spanish.

Honors Spanish 3

Credit: 1

Prerequisite: Spanish 1 and 2

This course builds on vocabulary and grammar covered in previous Spanish courses. Spanish 3 students expand their vocabulary and reading comprehension in the target language by reading a mystery novel. Spanish 4 students complete a cartoon booklet about Don Quixote. Oral communication and proficiency in the five simple tenses is mastered. Reading, writing, speaking & listening occurs in both courses.

AP Spanish Language and Culture:

Credit: 1

Prerequisite: Spanish 3

The AP Spanish Language and Culture course emphasizes communication by applying interpersonal, interpretive, and presentational skills in real-life situations. This includes vocabulary usage, language control, communication strategies, and cultural awareness. The course strives not to overemphasize grammatical accuracy at the expense of communication. The course engages students in an exploration of culture in both contemporary and historical contexts and develops students' awareness and appreciation of cultural products (e.g. books, music, institutions); practices (social interactions within a culture); and perspectives (values, attitudes, and assumptions). The course is structured around six themes: beauty and aesthetics, contemporary life, families and communities, global challenges, personal and public identities, and science and technology. The course is taught almost exclusively in Spanish.

Chinese 1

Credit: 1

Prerequisite: 10th grade student

This course is a generalized view of the Chinese culture and language. Students begin their studies with no prior knowledge of the language very gradually increasing speed and ability. They will explore the language from all aspects: reading, writing, speaking and listening. A number of projects will enhance the

student's understanding of grand history and culture of China. Students will learn approximately 180 characters (250 words).

Chinese 2

Credit: 1

Prerequisite: Chinese I

This course is a continuation of Chinese I and will begin at the pace Chinese I left off. Reading, writing, listening and speaking begin to take stronger roles with less concentration on the Chinese culture. Students will continue knowledge growth through skits, narrations, short stories, projects and daily work in sentence structures and vocabulary. Students will learn approximately 150 more characters (total vocabulary now at 600 words).

Chinese 3

Credit: 1

Prerequisite: Chinese I and II

Students should come away with the ability to enter into college level 2-3 Chinese courses with testing. Students will learn approximately 250 more characters (total vocabulary now at 1000+ words; 600 characters).

Career and Technical Department

The Career and Technical Department is organized into four areas of concentration with 8 Programs of Study to choose from:

- **Business and Information Technology**
 - Office Management
- **Family and Consumer Sciences**
 - Teaching as a Profession
- **Marketing**
 - Entrepreneurship
- **Trade and Industry**
 - Arts, A/V Technology, & Communications
 - Production Design
 - STEM
 - Web Design
 - Coding/Computer Science

Business Management & Administration

Office Management Path

Future Ready Institute

Computer Applications

Credit: 1

Prerequisite: 9th grade student

This is a foundational course intended to teach students the computing fundamentals and concepts involved in common software applications: word processing, presentations, spreadsheets, databases and publishing

Business Communications

Credit: 1

Prerequisite: Computer Applications

This course develops students' written, oral and electronic business communication skills

Advanced Computer Applications

Credit: 1

Prerequisite: Computer Applications/Business Communications

This course prepares students to continue post-secondary training in business related programs. Supports training to obtain an industry certification, such as Microsoft Office Suite, (MOS).

FAMILY AND CONSUMER SCIENCES

Teaching As A Profession

Teaching As A Profession I

Credit: 1

Prerequisite: 10th grade student

Teaching as a Profession I (TAP I) is for students interested in learning more about becoming a school counselor, teacher, librarian, or speech-language pathologist. Topics include the components of instruction, teaching strategies, types of assessments, student learning, special populations, and educational technology. Upon successful completion of this course, students will have a fundamental understanding of instructional strategies needed for becoming an educator.

Teaching As A Profession II

Credit: 1

Prerequisite: Teaching as a Profession I

Teaching as a Profession II (TAP II) is an applied-knowledge course for students interested in learning more about becoming an educator. This course covers classroom management, concepts of higher order thinking, differentiating instruction, and strategies of effective classroom planning. Students in this course will have opportunities to engage in field experiences. Successful completion of this course will prepare students to further their studies at the post-secondary level.

Teaching As A Profession III

Credit: 1

Prerequisite: Teaching as a Profession II

Teaching as a Profession III (TAP III) is a capstone course in the Education and Training career cluster for students interested in applying the knowledge and skills learned in previous TAP courses. Students will complete an internship in a K-12 or other school setting and create a student portfolio that showcases their learning. Successful completion of this course will prepare students to further their studies at the post-secondary level.

MARKETING

Marketing Entrepreneurship Path

Future Ready Institute

Marketing and Management I

Credit: 1

Prerequisite: 10th grade student/acceptance into the Future Ready Institute

This course focuses on the study of marketing concepts and their practical applications. Students will examine the risks and challenges that marketers face to establish a competitive edge in the sale of products and services. Topics covered include foundational marketing functions such as promotion, distribution, and selling, as well as coverage of economics fundamentals, international marketing, and career development.

Entrepreneurship

Credit: 1

Prerequisite: Marketing and Management 1

The course includes enhanced marketing information as it relates to entrepreneurial activities. Subject matter includes introductory entrepreneurial concepts, business plan development, management responsibilities, and legal and ethical issues of business ownership.

Work-Based Learning: Career Practicum (Co-op)

Credit:1

Prerequisite: Entrepreneurship

A course that provides students with opportunities to apply the skills and knowledge learned in previous marketing education courses within a professional work environment. The course allows students to earn high school credit while working on the job. Students will interact with industry professionals in order to extend and deepen classroom work and support the development of postsecondary and career readiness knowledge and skills. Students will have the option of running the School Based Enterprise @ONETWELVE for credit during the school day or they will have the option of leaving campus and perform duties at the job site for credit. It is also possible to enroll in both (one first semester one second). Students must be 16 years of age, hold a valid driver's license, and provide their own transportation.

Trade and Industry Programs

Arts, A/V Technology, & Communications

Audio/Visual Production

Future Ready Institute

A/V Production 1

Credit: 1

Prerequisite: 9th grade student/acceptance into the Future Ready Institute

A/V Production I is a foundational course in the Arts, A/V Technology, & Communications cluster for students interested in A/V (audio/visual) production occupations. Upon completion of this course, proficient students will be able to explain and complete the phases of the production process including pre-production, production, and post-production. Students will establish basic skills in Page 2 operating cameras, basic audio equipment, and other production equipment. Standards in this course include career exploration, an overview of the history and evolution of A/V production, and legal issues affecting A/V production. In addition, students will begin compiling artifacts for inclusion in a portfolio, which they will carry with them throughout the full sequence of courses in this program of study.

A/V Production 2

Credit: 1

Prerequisite: A/V 1

A/V Production II is the second course in the A/V Production program of study intended to prepare students for a careers in audio/visual production. Building on knowledge acquired in A/V Production I, this course advances technical skill in utilizing industry equipment related to lighting and audio, and it places special emphasis on the research and technical writing involved in planning productions. Upon completion of this course, proficient students will be able to plan, capture, and edit research-based productions of increasing complexity, individually and through collaboration in teams. In addition to more robust career preparation, standards in this course include an investigation of concerns affecting A/V production businesses, such as ethical and legal issues, technology, funding, and the organization of professional roles in various industries. Students will continue compiling artifacts for inclusion in their portfolios, which they will carry with them throughout the full sequence of courses in this program of study.

A/V Production 3

Credit: 1

Prerequisite: A/V 2

A/V Production III is an applied-knowledge course intended to prepare students to pursue careers and postsecondary learning in audio/visual production. Students in this course will apply knowledge and skills from previous courses in the program of study to create productions both independently and in teams, with the option of participating in a work-based learning experience for additional Page 2 credit. Students will use industry equipment and technology to complete all phases of the production process, including planning, coordinating, capturing, editing, and distributing productions. Standards in this course include policies and regulations, independent and collaborative productions, distribution of media, and the production of live events. Students will continue compiling artifacts for inclusion in their portfolios.

Information Technology

Web Design

Future Ready Institute

Web Design Foundations

Credit: 1

Prerequisite: 10th grade student/acceptance into the Future Ready Institute

Web Design Foundation is the entry level course for the Web Design and Development Program of Study. This course covers the organizing of a website's content with the use of coding, like HTML, CSS or JavaScript. Troubleshooting and problem solving are key skills to build as a Developer. The course also covers the creative side of web development, learning software like Adobe Illustrator and Photoshop. Creating logos for a client, and applying the design principles, like color, line, and positive/negative space to the look of the website. Career paths might include: web designer, web developer, graphic designer, UX (user experience) or UI (user interface) designers.

Web Development

Credit: 1

Prerequisite: Web Design Foundations

This course dives deeper into Web Development and understanding how both the Designer and Developer's role are important when working with a client to build successful websites. If a person has both design and coding skills, they could have a career as Full Stack Developer. Looking at all items that use the internet will be explored in this class, like Chatbots, AI (Artificial Intelligence), VR (Virtual Reality), and App Development. A skill developed in this course is storytelling. By gathering photos and information on events, students create the content for the SDHS website. Jobs might include: journalist, blogger, videographer, or social media consultant. Organizational skills are fostered when managing a team of employees to build a website or when overseeing the building of a client's website, working with the client to meet their needs. Focus on time management, customer relations and personal interaction skills are a part of this class. Jobs might include: Scrum/Kanban Master, Project Management personnel, or working with a business owner who needs a website. Mobile device access to the internet is out numbering desktop computer access, designing or developing for the user's experience on the internet should focus on mobile app development. The understanding how to build websites is the beginning of exploring a career in Social Media.

Web Design Practicum

Credit: 1

Prerequisite: Web Development

This is a capstone course intended to provide students with the opportunity to apply the skills and knowledge learned in previous Web Design courses toward the completion of an in-depth project with fellow team members. Students who have progressed to this level in the Web Design program of study take on more responsibilities for producing independent work and managing processes involved in the planning, designing, refinement, and launch of a website. In addition to developing an understanding of the professional and ethical issues encountered by web design professionals in the workplace, students learn to refine their skills in problem solving, troubleshooting, teamwork, marketing and analytics, and project management. Upon completion of the practicum, proficient students will be prepared for postsecondary study and career advancement in web design.

Advanced Placement Computer Science Principles

Credit: 1

Prerequisites: H Pre-Calculus, DE College Algebra or DE Pre-Calculus

AP Computer Science Principles is an introductory class to computer science with a focus on computational thinking and the tools needed to analyze, study, and work with large data sets to draw conclusions from trends. This course is interdisciplinary as students explore how computer software and other technology can be used to solve problems. It will focus on the ethical implications of technology alongside the mechanical components.

The Computer Science Principles curriculum is an entry-level course that introduces high school students to the foundations of modern computing. The course covers a broad range of foundational topics such as programming and coding (in both Python and JavaScript), algorithms, Internet protocols, big data, digital privacy and security, and the societal impacts of computing.

Language: Python Prerequisites: No prior CS experience required, however, completing *Coding I* prior to taking this class will be extremely helpful for learning Python. Algebra I preferred.

Advanced Placement Computer Science A

Credit: 1

Prerequisites: H Pre-Calculus, DE College Algebra or DE Pre-Calculus

AP Computer Science A is a programming class in Java, a popular in-demand programming language. Java is used to build server-side applications, games, and financial applications, and is the core foundation for developing Android apps. Students will be introduced to topics that include problem-solving, design strategies and methodologies, organization of data (data structure), approaches to processing data (algorithms), analysis of potential solutions, and the ethical and social implications of computing.

Language: Java

Prerequisites: AP Computer Science Principles required. Algebra II preferred.

Amazon Future Engineer Program (SDHS was accepted into the Amazon Future Engineer Program in January 2019). Amazon has established a scholarship program to assist high school seniors who are taking or have completed an advanced placement computer science course who plan to continue their education at an accredited four-year college or university majoring in computer science, software engineering, computer engineering or other computer related field of study.

The 2019 Scholarship included \$10,000 for 4 years (\$40,000) and includes and paid internship at Amazon after your 1st year of college. 100 scholarships from Amazon will be given in the spring of 2019.

Coding I

Credit: 1

Prerequisites: None

Coding I is a introductory course intended to teach students the basics of computer programming. It is an interactive introductory course for students brand new to programming that teaches the foundations of computer science using the Python language. Not only will this course prepare students for AP Computer Science Principles and/or AP Computer Science A, but it will teach students how to think computationally and solve complex problems, skills that are important for every student. This introduction to computer science course is a great starting point for a student new computer science.

Language: Python

Prerequisites: No prior CS experience required.

STEM (Science Technology, Engineering, & Mathematics) Advanced STEM Applications

STEM I: Foundation

Credit: 1

Prerequisite: 9th or 10th grade student

This course is for you if you're interested in learning more about careers in science, technology, engineering and mathematics. This course covers basic skills required for STEM fields of study. By the time you finish, you will be able to identify and explain the steps in both the engineering design and the scientific inquiry processes. You will conduct research to develop meaningful questions, define simple problem scenarios and scientific investigations, develop fundamental design solutions, conduct basic mathematical modeling and data analysis, and effectively communicate solutions and scientific explanations to others.

STEM II: Applications

Credit: 1

Prerequisite: STEM II

This course is a project-based learning experience for you to explore deeply the dynamic range of STEM fields introduced in STEM I: Foundation. You will apply the scientific inquiry and engineering design processes to a course-long project. You will ask engineering/scientific questions, test hypotheses, model solutions, and communicate results. You will have a thorough understanding of how scientists and engineers research problems and methodically apply STEM knowledge and skills; and you will be able to present and defend a scientific explanation and/or an engineering design solution to comprehensive STEM-related scenarios.

STEM III: STEM in Context

Credit: 1

Prerequisite: STEM II

This course is for students that liked *STEM I: Foundation* and *STEM II: Applications*. You will work in groups to solve a problem or answer a scientific question drawn from real-world scenarios within our school or community. You will get to applying scientific and engineering knowledge and skills to a team project. When you finish you will be able to effectively manage a project management, communicate with your team, be a leader, and make decisions. You will be ready to take your skills to a job setting.

STEM IV: STEM Practicum

Credit: 1

Prerequisite: STEM III

This course is a capstone course for you to apply the skills and knowledge learned in previous STEM Education courses within a professional, working environment. In addition to developing an understanding of the professional and ethical issues encountered by STEM professionals in the workplace, you will learn to refine your skills in problem solving, research, communication, data analysis, teamwork, and project management. You class will be either through school laboratory training or through work-based learning arrangements such as internships, cooperative education, service learning, mentoring, and job shadowing. You will be ready for postsecondary study in a STEM field.

STEM (Science Technology, Engineering, & Mathematics) Project Lead The Way

Principles of Engineering

Credit:1

Prerequisite: 9th or 10th grade student

Principles of Engineering is a course in which students explore the nature of engineering and the skills fundamental to all engineering fields, as well as the role of quality-assurance and quality control procedures in manufacturing. Emphasis is placed on actual projects and presentations and the use of modern tools (e.g., CAD). The course can be enhanced by cooperation with local manufacturing facilities, which can provide real measurement data and opportunities for on-site visits to witness engineering tasks and projects, and quality-control data collection. Successful completion of the advanced placement final exam will qualify the student for 3 credits at participating universities. Membership in Skills USA to develop technical and professional skills is highly recommended.

Digital Electronics

Credit:1

Prerequisite: Principles of Engineering

This course applies logic that encompasses the application of electronic circuits and devices. Computer simulation software is used to design and test digital circuitry prior to the actual construction of circuits and devices. This is an Engineering and Technology Academy elective course. Students can earn 3 articulation credits from Chattanooga State for EE140 Digital Circuits.

JROTC

The JROTC program is designed to teach high school students the value of citizenship, leadership, service to the community, personal responsibility, and a sense of accomplishment, while instilling in them self-esteem, teamwork and self-discipline. The program's focus is reflected in our mission statement, **“To motivate young people to better citizens.”** The JROTC curriculum has incorporated the latest education theories used in secondary education. National Education Standards have been linked to each lesson to show a cross-connection with our curriculum and the standard curriculum taught in high school. **JROTC is an elective which carries no military obligation.** One credit in Wellness is required for graduation. This requirement may also be met by earning credits for JROTC 1 and JROTC 2.

Under block scheduling, the program consists of four school years and eight blocks with 135 hours each block. Each block is called Leadership, Education, and Training (LET) level—LET 1 through LET 8. During the first school year of JROTC, LET 1 & 2 is offered as a two-block integrated course of instruction in Lifetime Wellness and basic JROTC. Both blocks must be taken to gain one elective credit in JROTC plus one core credit in Wellness. Each subsequent school year consists of a JROTC elective credit during each block. Successful completion through LE 6 can also be used to satisfy the graduation requisite ½ core credit for U.S. Government.

Note: Additionally, JROTC offers the following varsity-level athletic teams which practice after school and compete in a five-state regional area: RIFLE TEAM – RAIDER TEAM – DRILL TEAM – COLOR GUARD. During the course of the Program, Adventure Training such as rappelling, rope/confidence/obstacle courses, spelunking, and white water rafting will be offered as well.

NOTE: JROTC students will be required to wear the army military uniform once a week. This uniform is provided at no cost to the student. Each JROTC student is required to march in the Soddy Daisy Christmas Parade, Armed Forces Day Parade, and the Veteran's Day Parade. JROTC Students are required to participate in Community Service and Service Learning projects during the school year. The JROTC program enforces high standards for each cadet during and out of school which requires self-discipline on the student's part.

The following is a course description by Leadership Educational Training (LET) Level

JROTC LET 1 & 2

Credit: 1 – PE/ .50 – JROTC

Prerequisite: 9th grade student

The first year (two semesters) is a two-block integrated course of basic JROTC and Lifetime Wellness emphasizing rights, responsibilities, privileges, freedoms, team work, health, hygiene, first aid, Alive @ 25, drug awareness, CPR, introduction to oral communications, and respect for authority that underlie good citizenship and character. Successful completion of both blocks gains one elective credit in JROTC and one core credit in Lifetime Wellness.

JROTC LET 3

Credit: 1

Prerequisite: JROTC 1 & 2

One-block course offered during first semester block only with emphasis on ethical values, principles, written communications, fitness, basic management techniques and leadership potential, and technology. Emerging leaders are identified and developed. Successful completion gains one elective credit in JROTC.

JROTC LET 4

Credit: 1

Prerequisite: JROTC3

One-block course offered during second block only with emphasis on practical application of skills learned in LET 3 to include collateral readings, written reports, oral presentations, leadership labs, United States Constitution and U.S. Government. Successful completion gains one elective credit in JROTC.

JROTC LET 5

Credit: 1

Prerequisite: JROTC4

One-block course offered during first semester block only with emphasis on problem solving, intermediate leadership responsibilities, coaching and supervising techniques, leader communicative skills, environmental concerns. Cadets assume mid-level positions of leadership. Successful completion gains one elective credit in JROTC.

JROTC LET 6

**Credit: 1 JROTC / .5 Government/
.5 Personal Finance**

Prerequisite: JROTC 5

One-block course offered during second block only with emphasis on practical application of skills learned in LET 5 to include U.S. Government, decision making, methods of instruction, counseling, team development, written oral reports, and leadership labs. Successful completion gains one elective credit in JROTC and completes the requirements for ½ government credit.

JROTC LET 7

Credit: 1 JROTC

Prerequisite: JROTC6

One-block course offered during first block only with emphasis on ethical reasoning, planning and decision making, applied leadership, fitness, community involvement, and the job market. Cadets assume senior positions of leadership and assist the instructors. Successful completion gains one elective credit in JROTC.

JROTC LET 8

Credit: 1 JROTC

Prerequisite: JROTC7

One-block course offered during second block only with emphasis on practical application of skills learned in LET 7 to include performance in assigned command and staff positions within the cadet organization, preparation and execution of the annual Federal Command Inspection, JROTC recruiting, career planning, seminars, advanced leadership labs, and U.S. Government. Successful completion gains one elective credit in JROTC and equivalency ½ core credit in U.S. Government

Physical Education

Weight Training and Conditioning

Credit: 1

**Prerequisite: Wellness/Teacher
Recommendation**

This course is for students who want to participate in a weight-lifting/plyometric program. Students are expected to dress out for every class. Course will be gender specific. Course fee of \$10 is required too.

Physical Education

Credit: .5

**Prerequisite: Wellness
Course Fee: \$10 for uniform or instructor
approved apparel**

This is a traditional 9-week physical education course focusing on a variety of recreational sports including touch football, badminton, basketball, archery, floor hockey, soccer, etc. Students are expected to dress out for every class. Course will be gender specific.

Wellness

Credit: 1

**Prerequisite: 9th or 10th grade student
Course Fee: \$10 for uniform or instructor
approved apparel**

This course provides instruction in personal fitness development and sports skills. Classroom activities will include nutrition, mental health, safety and first aid, and personal fitness, CPR and sex ed. It is strongly recommended that freshmen *take this course if they are not enrolled in JROTC*. Students are expected to dress out in uniform shirts and shorts for each non-classroom day of the course. Course will be gender specific.

Miscellaneous Electives

The courses included in this section, while outside a specific curriculum areas, are valuable both to students and the school community as a whole in that they offer opportunities for various types of leadership roles and training that will benefit students throughout their lives.

Student Council Core

Credit: 2

Prerequisite: Admission by application process only

This course comprises a core of elected students whose purpose shall be to promote the general welfare of the school, to further better student-faculty relations, to provide for expression of student ideas and suggestions, to plan and implement school activities to encourage student participation, and to encourage better citizenship within our community.

Yearbook

Credit: 2

Prerequisite: English 9, Teacher Recommendation, Admission by application process only

This course focuses on producing the SDHS yearbook. Students are taught the basics of photojournalism, page design, and journalistic writing. Marketing and public relations skills are also addressed. This class meets 4th block

ACT Prep

Credit: .5

This comprehensive course concentrates on the verbal, mathematical, and science skills, as well as the test-taking techniques you need to perform at your highest level on the ACT.

Side X Side program:

Credit: 1

Prerequisite:

Class is designed for students who want to go into the teaching profession. In this class students will pair up with students who have intellectual and physical disabilities to integrate them more successfully into the general education setting. Students will work closely with teachers and case managers to help modify work and transition the students into the regular education setting. Teacher recommendation. See your counselor for more information.

Outdoor Leadership

Credit: 1

Pre-Requisites: 11th and 12th Grade Course Fee: \$40.00

This course is an experiential class that emphasizes the development of leadership skills integrated into an outdoor curriculum. The course includes environmental education, conservation, white water safety and navigation, decision making, collaboration, conflict management, hiking and backpacking, rope and knot work, outdoor recreation/lifestyle sports, tree stand safety, primitive fire making, and general outdoor skills. The Soddy Daisy outdoor adventure instructors are committed to the safety and well-being of their students. Nevertheless, parents and students should be aware of the added risks associated with select activities. HCDE, its teachers, and administrators will not be liable for any type of injuries sustained in association with these activities which carry greater risks.