



Lee-Scott Academy  
Upper School  
Course Catalog

2022-23

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# LEE-SCOTT ACADEMY COURSE GUIDE

Grades 7-12

	7 <sup>th</sup> Grade	8 <sup>th</sup> Grade	9 <sup>th</sup> Grade	10 <sup>th</sup> Grade	11 <sup>th</sup> Grade	12 <sup>th</sup> Grade
<b>MATH</b>	Accelerated Math 7 <i>or</i> Math 7	Accelerated Math 8 <i>or</i> Math 8	Honors Geometry <i>with</i> Data Analysis <i>or</i> Geometry <i>with</i> Data Analysis	Honors Algebra II <i>with</i> Statistics <i>or</i> Algebra II <i>with</i> Statistics <i>or</i> Algebra I <i>with</i> Probability	Dual Enrollment PreCalculus <i>or</i> PreCalculus <i>or</i> Algebra II <i>with</i> Statistics	Dual Enrollment Calculus I, II <i>or</i> Dual Enrollment PreCalculus <i>or</i> PreCalculus <i>or</i> Business Calculus <i>or</i> College Prep Math
<b>SCIENCE</b>	Life Science	Physical Science	Pre-AP Biology <i>or</i> Biology	Honors Physical Science <i>or</i> Physical Science	Chemistry <i>or</i> Anatomy & Physiology	Honors Physics <i>or</i> AP Biology <i>or</i> Environmental Science
<b>ENGLISH</b>	English 7	English 8	Pre-AP English 9 <i>or</i> English 9	Pre-AP English 10 <i>or</i> English 10	AP Lang/Comp <i>or</i> English 11	AP Lit/Comp <i>or</i> English 12
<b>SOCIAL STUDIES</b>	Geography/ Civics	World History <1500	World History >1500	AP European History <i>or</i> U.S. History <1900	AP U.S. History <i>or</i> U.S. History >1900	AP Macroeconomics <i>or</i> Economics
<b>REQUIRED</b>			Spanish I	Spanish II		Government
<b>REQUIRED</b>	Band <i>or</i> P.E.	Band <i>or</i> P.E.	Band <i>or</i> P.E.			
<b>ADDITIONAL ELECTIVES</b>	CHOOSE 2	CHOOSE 2	CHOOSE 1	CHOOSE 2	CHOOSE 3	CHOOSE 3

Course offerings focus on daily preparation in core areas and are constantly evaluated to ensure students are prepared for post-secondary success.

Electives offered at each grade level vary depending upon demand, staff availability, and age appropriateness.

For course descriptions, please review the rest of the Course Catalog.

## LEE-SCOTT ACADEMY COURSE CATALOG

**Summer reading is a requirement for all English courses at Lee-Scott Academy**

### **ENGLISH**

**ENGLISH 7:** Seventh grade English focuses on increasing the ability to think abstractly and expand the ability to express and justify points of view. Students will expand their foundational skills and knowledge in order to read and respond to various types of literature. Standards focus on various types of literacy (critical, digital, language, research, and vocabulary), building depth of knowledge, and increasing reading and writing stamina throughout the curriculum. In addition, students will study: grammar, poetry, nonfiction, and short stories. Students are required to read 600 pages each nine weeks and complete three in class novels.

**ENGLISH 8:** Eighth Grade Language Arts is an in-depth exploration of the writing process combined with extensive reading in interdisciplinary areas. Students will be continually pushed to move from the literal to the abstract in their critical thinking. Close reading of literary selections (fiction and nonfiction) will reinforce reading comprehension. The course standards include writing, language, research, vocabulary, and digital literacy. Students will complete at least 3 novel selections throughout the year with written analysis.

**ENGLISH 9:** In this English course, students will grow in their use of language as they study literature (short stories, novels, drama, and poetry), practice research, write (various essays and other creative pieces), review grammar, and use speaking and listening skills. Activities will require them to read, write, think, and discuss critically.

**PRE-AP ENGLISH 9:** This Pre-AP English 9 course focuses on reading, writing, and language skills that are relevant to students' current work and essential for students' future high school and college coursework. Texts take center stage, preparing students for close, critical reading and analytical writing. The course trains readers to observe small details in a text to arrive at a deeper understanding of the whole. As readers, students will appreciate authors' subtle choices, develop an awareness of how words produce effects and how the conventions of the English language are used for both precision and style. As writers, students focus first on crafting complex sentences, building this foundational skill; they then move on to producing well-organized paragraphs and, as the year progresses, more sophisticated, longer-form analyses. **It is recommended that a student maintain a "90" average in current level English course, be benchmarked on the PRE-ACT with a readiness score of 15 or higher in reading and have teacher approval.**

**A student who completes a Pre-AP course with a "90" semester average or higher, will have 5 points added to his/her semester average. In addition to the added 5 points, students will receive additional weight to their GPA for completing a Pre-AP course.**

**ENGLISH 10:** This course is designed to prepare students for the demands of future English courses as well as for their careers. The course will focus on critical reading and analysis of both fiction and nonfiction selections to include a minimum of three novel studies. The course standards include writing, language, presentation, research, vocabulary, and digital literacy. Students will complete at least 3 novel selections throughout the year with written analysis.

**PRE-AP ENGLISH 10:** The Pre-AP English 10 course focuses on equipping students with the ability to engage directly with a variety of fiction and nonfiction texts. It is designed to include a culturally diverse body of texts that invite close reading and analysis in four units: argument, persuasion, voice, and purpose. Students will be required to read, analyze, research and compose topics based on literary selections.

**It is recommended that a student maintain a “90” average in current level English course, be benchmarked on the Pre-ACT assessment with a benchmark readingness score of 17 or higher in reading and have teacher approval.**

**A student who completes a Pre-AP course with a “90” semester average or higher, will have 5 points added to his/her semester average. In addition to the added 5 points, students will receive additional weight to their GPA for completing a Pre-AP course.**

**ENGLISH 11:** The English 11 course prepares students for the demands of future English courses in both high school and college settings as well as for careers. Students devote time to studying the major literary topics and themes across the history of the United States, as well as other selected texts. Students master various grammar objectives, compose essays and write a research paper using MLA format, improve skills in speaking and listening, and develop essential digital skills.

**AP ENGLISH LANGUAGE AND COMPOSITION (11TH GRADE):** The AP English Language and Composition course focuses on the development and revision of evidence-based analytic and argumentative writing, the rhetorical analysis of nonfiction texts, and the decisions writers make as they compose and revise. Students evaluate, synthesize, and cite research to support their arguments. Additionally, they read and analyze rhetorical elements and their effects in nonfiction text - including images as forms of text - from a range of disciplines and historical periods, cultivating the reading and writing skills that students need for college success and intellectually responsible civic engagement. The purpose of the course is to empower students to read complex (college level) texts with understanding and to write prose of sufficient depth and complexity to communicate effectively with mature readers.

**Students taking the AP course will be required to take the AP exam. The fee for each Advanced Placement exam is \$110.**

**It is recommended that a student maintain a “90” average in current level English course, be benchmarked on the ACT assessment with a benchmark score of 22 or higher in reading and have teacher approval. A student who completes an AP course with an “85” semester average or higher, will have 10 points added to his/her semester average. In addition, the GPA weight is added regardless of semester average.**

**ENGLISH 12:** This course focuses on preparing students for college with a focus on British Literature. Students refine skills in English grammar, usage, and mechanics through practice reading, analyzing, and writing (including one major analytical paper formatted in MLA format). Students learn and practice active listening and essential digital skills. Literature studies will trace the development of British literature from earliest Anglo-Saxon times through the twentieth century with an emphasis on heroes and cultures. In addition, students will read and study a wide range of representative styles of major writers in various genres (prose, poetry, short stories, essays, and novels).

**AP ENGLISH LITERATURE AND COMPOSITION (12TH GRADE):** The AP English Literature and Composition course focuses on reading, analyzing, and writing about imaginative literature (fiction, poetry, drama) from various periods. Students engage in close reading and critical analysis of imaginative literature to deepen their understanding of the ways writers use language to provide both meaning and pleasure. As they read, students consider a work's structure, style, and themes, as well as its use of figurative language, imagery, and symbolism. Writing assignments include expository, analytical, and argumentative essays that require students to analyze and interpret literary works.

**All students taking the AP course will be required to take the AP exam. The fee for each Advanced Placement exam is \$110.**

**It is recommended that a student maintain a "90" average in current level English course, be benchmarked on the ACT assessment with a benchmark score of 22 or higher in reading and have teacher approval. A student who completes an AP course with an "85" semester average or higher, will have 10 points added to his/her semester average. In addition, the GPA weight is added regardless of semester average.**

## **SOCIAL STUDIES**

**7TH GRADE CIVICS AND GEOGRAPHY:** Civics and Geography are each taught as a one-semester course. In the geography course, students study world geography using a thematic approach. They focus on Earth as the subject matter that involves people, places, and environments and learn that geography seeks meaning in spatial patterns and processes that involve asking questions regarding where and why. The civics course addresses content regarding democracy, liberty, law, personal economics, and local, state, and national civic responsibility. This course provides students with information about how society works, including the role students play in the community and in the world.

**8TH GRADE WORLD HISTORY to 1500:** 8th Grade World History addresses the time period from prehistoric man to the 1500's. The class incorporates economics, geography, history, and political science, with an emphasis on the history and geography strands. This course covers the migrations of early peoples, the rise of civilizations, the establishment of governments and religions, the growth of economic systems, and the ways in which these events shaped Europe, Asia, Africa, and the Americas. Unique to this course are the experiences that provide for the study of the ways human beings view themselves over time. Instruction is designed to actively involve students in critical thinking and the exchange of ideas, including critical evaluation, interpretation, reasoning, and deduction.

**9TH GRADE WORLD HISTORY 1500 to the Present:** 9th Grade World History course covers the period from 1500 to the present. Topics include, but are not limited to, the Renaissance, Reformation, Scientific and Industrial Revolution, Enlightenment, Imperialism, World War I, II, the Cold War, and the Post-War World. The course directs students to think critically about the forces that combined to shape the world today. It allows them to analyze development and changes in the European, Asian, African, and American civilizations and ways in which interactions of these cultures have influenced the formation of today's world. Knowledge of other cultures enables students to develop a better appreciation for the unique American heritage of liberty.

**10TH GRADE US HISTORY I: Beginnings to the Industrial Revolution:** This course covers early American History from the arrival of Europeans through the Civil War and Reconstruction. The material is presented in a chronological order with an emphasis on the significance of major historical events.

**10TH GRADE AP EUROPEAN HISTORY:** AP European History provides the first advanced placement experience for students while exposing them to college-level workload and course material. Students taking this course should have excellent time-management and study skills as well as advanced writing and reading comprehension abilities. Requirements of the course are rigorous and include summer reading and additional reading each quarter.

**All students taking the AP course will be required to take the AP exam. The fee for each Advanced Placement exam is \$110. It is recommended that a student maintain a "90" average in current level History, have a Pre-ACT readiness score in reading of 17 or higher and have teacher approval. A student who completes an AP course with an "85" semester average or higher, will have 10 points added to his/her semester average. In addition, the GPA weight is added regardless of semester average.**

**11TH GRADE US HISTORY II: The Industrial Revolution to the Present:** The purpose of this course is for students to not only learn history, but also to experience it. Students will gain an understanding of past events, and will also realize how current news events will shape the history of today. Students will come to recognize themes from many eras and relate these themes to today's issues. Students will grow in the knowledge and understanding of past and present events that have and will change history. Students will be encouraged to use critical thinking skills to find and deliver answers to many essential questions. Topics covered include but are not limited to Western Frontiers, Progressivism, Expansionism, The Great Depression, The New Deal, The Cold War, the presidencies of Kennedy through Trump.

**11TH GRADE AP UNITED STATES HISTORY:** Advanced Placement United States History is a challenging course that is meant to be equivalent to a freshman level college course and can earn a student college credit. This is a two-semester survey of American History from Westward Expansion to the present. Strong reading and writing skills, along with a willingness to devote considerable time to homework and study are necessary to succeed. An emphasis is placed on critical and evaluative thinking skills, essay writing and the interpretation of original documents. **All students taking the AP course will be required to take the AP exam. The fee for each Advanced Placement exam is \$110. It is recommended that a student maintain a “90” or above average the current level History class and has teacher approval. Summer reading may be a requirement. A student who completes an AP course with an “85” semester average or higher, will have 10 points added to his/her semester average. In addition, the GPA weight is added regardless of semester average.**

**12TH GRADE GOVERNMENT (Semester):** This course replicates the Introduction to American Government course required at most universities. Topics covered but not limited to include Constitutionalism, Civil Rights, Legislative Branch, Executive Branch, Judicial Branch, Political Parties and the Election Process.

**12TH GRADE ECONOMICS (Semester):** This course covers the same basic material as AP Macroeconomics. A few select topics are not covered in as much depth as they are in AP Macroeconomics and tests are graded with more flexibility.

**12TH GRADE AP MACROECONOMICS (Semester):** This course is an introduction to the principles of Keynesian Macroeconomic Theory and is designed to prepare students to take the national AP Macroeconomics exam in May. The course relies heavily on the student’s ability to think and reason rather than memorize. AP Macroeconomics is taught similarly to a college course in that students are expected to devote more time outside of class than a typical high school course. **All students taking the AP course will be required to take the AP exam. The fee for each Advanced Placement exam is \$110. It is recommended that a student maintain a “90” or above average the previous year in their current level History class and has teacher approval. Summer reading may be a requirement. A student who completes an AP course with an “85” semester average or higher, will have 10 points added to his/her semester average. In addition, the GPA weight is added regardless of semester average.**

## **MATHEMATICS**

**MATH 7:** This course covers the basics of algebra including the number systems, equations and expressions, and functions. The course will also cover some basic geometry including the pythagorean theorem and congruence and similarity of shapes. It is specifically designed to prepare the student for mathematics as they continue through high school.

**7TH GRADE ACCELERATED MATH:** This course is designed for the student who is confident in math abilities coming into 7th grade. The course will require the student to work at a faster pace and explore a deeper understanding of Algebra. This course covers all the basics of Algebra in 7th grade math plus advanced exponents and roots, irrational numbers and transformations. It is specifically designed to prepare the student for 8th Grade Accelerated Math. **It is recommended that a student reach the 90th percentile on the placement test and have received a score of 115 or higher on the OLSAT SAI (School Ability Index) and have current math teacher approval.**

**MATH 8:** This course covers the study of algebraic concepts. The content is organized into content areas: Number Systems and Operations; Algebra and Functions; Data Analysis, Statistics, and Probability; Geometry and Measurement. There are three critical areas of equal importance:

1. Construct and reason about expressions and equations, including modeling data with linear equations and solving linear equations.
2. Describe the concept of a function and use functions to interpret quantitative relationships.
3. Analyze two and three dimensional figures and understand the Pythagorean Theorem

**8TH GRADE ACCELERATED MATH:** This course has been carefully aligned and designed for middle school students who have completed the Grade 7 Accelerated course and show particular motivation and interest in mathematics. Students will move through content more quickly than Grade 8 Mathematics thus preparing for opportunities to accelerate into more specialized coursework in the higher grade levels. The algebra focus is on quadratic relationships. **It is recommended that a student reach the 90th percentile on the placement test, maintain a “90” average for the current year in math and current math teacher approval.**

**9TH GRADE HONORS GEOMETRY WITH DATA ANALYSIS:** The honors geometry course covers the same topics covered in the basic course but with more content covered and at a faster pace. Students will also study geometric concepts more in-depth. This course is designed for students who enjoy being challenged and engaging in high-level discussions of geometric concepts. Students who take this course need to be organized and have a strong work ethic and eagerness to learn. **It is recommended that a student maintain an “90” average for the current year, be benchmarked on the Pre-ACT with a math readiness score of 15 or higher and current math teacher approval. A student who completes an Honors course with a “90” semester average or higher, will have 5 points added to his/her semester average. In addition to the added 5 points, students will receive additional weight to their GPA for completing an Honors course.**



**9TH GRADE GEOMETRY WITH DATA ANALYSIS:** Geometry with Data Analysis will cover topics such as points, lines, and planes, similar figures, logic reasoning and proof, circles as well as data analysis with probability and stem plots. The goal of this course is to create a great understanding of how and why concepts are related and used together. The course will provide basic knowledge of Geometry that will be used in future classes in high school as well as college. It will also introduce probability and statistical concepts that will be built upon in future courses.

**ALGEBRA I WITH PROBABILITY:** Algebra I with Probability is a course designed for tenth graders to provide students with the necessary knowledge of algebra and probability for use in everyday life. The course focuses on functions, properties of algebra, and graphing. This builds upon the algebraic concepts students learned in seventh and eighth grades. The study of probability will be a focus for this course. Probability helps enhance a student's ability to organize information and improve decision making, which helps to encourage reasoning in real-life situations.

**HONORS ALGEBRA II WITH STATISTICS:** This course incorporates knowledge and skills from several content areas to lead to a deeper understanding of algebra and statistics and to build a solid foundation for the continued study of high school mathematics. This course covers all the basics of Algebra II plus more depth in trigonometry and matrices. It is specifically designed to prepare students for Dual Enrollment Pre-Calculus. **It is recommended that a A “90” average in 9th grade Honors Geometry, have a Pre-ACT math readiness score of 17 or higher and current math teacher approval. A student who completes an Honors course with a “90” semester average or higher, will have 5 points added to his/her semester average. In addition to the added 5 points, students will receive additional weight to their GPA for completing an Honors course.**

**ALGEBRA II WITH STATISTICS:** This course incorporates knowledge and skills from several content areas to lead to a deeper understanding of algebra and statistics and to build a solid foundation for the continued study of high school mathematics. The course includes the study of an expanded range of functions, matrices, data analysis, statistics and probability. It is specifically designed to prepare the student for Pre-Calculus.

**11TH GRADE PRECALCULUS:** Precalculus builds on the study of algebra and functions in Algebra II with Statistics, adding rational functions, all trigonometric functions and general piecewise-defined functions to the families of functions considered. In addition, the course takes a deeper look at functions as a system, including composition of functions and inverses. Precalculus also expands on the study of trigonometry in previous courses and considers vectors and their operations. The primary focus of the course is preparing students for the study of calculus.

**11th/12th GRADE DUAL ENROLLMENT PRECALCULUS (MTH 115):** This course is a combination of Precalculus Algebra and Precalculus Trigonometry intended for superior math students. The course covers the following topics: the algebra of functions, systems of equations and inequalities, quadratic inequalities, and the binomial theorem, as well as the study of trigonometric (circular functions) and inverse trigonometric functions and includes extensive work with trigonometric identities and trigonometric equations, vectors, complex numbers, DeMoivre's Theorem, and polar coordinates.

**Prerequisites: Successfully completed Geometry and Algebra II, 20+ Math ACT subscore, and applied and accepted to Southern Union for Dual Enrollment.**

**12TH GRADE- COLLEGE PREP MATH:** This is a newly-designed specialized mathematics course to reinforce Algebra I, Algebra II, and Precalculus topics and introduce topics in Personal Finance and Statistics. The first semester is a thorough review of algebra topics with the goal of increasing ACT and College Math Placement scores. The second semester will include topics in financial literacy, financial planning and management, interpreting statistics, and using technology in mathematics.

**12TH GRADE BUSINESS CALCULUS:** This course is intended to give a broad overview of calculus. It includes differentiation and integration of algebraic, exponential, and logarithmic functions and applications to business and economics. The course includes functions of several variables, partial derivatives (including applications), Lagrange Multipliers, L'Hopital's Rule, and multiple integration (including applications)

**Prerequisite: Geometry, Algebra II, and Pre Calculus.**

**12TH GRADE DUAL ENROLLMENT CALCULUS I (MTH 125 - 1st Semester):** This is the first of three courses in the basic calculus sequence taken primarily by students in science, engineering, and mathematics. Topics include the limit of a function; the derivative of algebraic, trigonometric, exponential, and logarithmic functions; and the definite integral and its basic applications to area problems. Applications of the derivative are covered in detail, including approximations of error using differentials, maximum and minimum problems, and curve sketching using calculus.

**Prerequisites: Successfully completed Pre Calculus or Dual Enrollment Pre Calculus, 20+ Math ACT subscore, and accepted to Southern Union for Dual Enrollment. The expectation is that any student who enrolls in Dual Enrollment Calculus I will also enroll in Dual Enrollment Cal II for the second semester. Students must be enrolled in a math class both semesters.**

**12TH GRADE DUAL ENROLLMENT CALCULUS II (MTH 126 - 2nd Semester):** This is the second of three courses in the basic calculus sequence. Topics include vectors in the plane and in space, lines and planes in space, applications of integration (such as volume, arc length, work and average value), techniques of integration, infinite series, polar coordinates, and parametric equations.

**Prerequisites: Maintain a C or higher in Calculus I first semester.**

## SCIENCE

**7TH GRADE LIFE SCIENCE:** This course is designed to give students the necessary skills for a smooth transition from elementary life science standards to high school biology standards. The purpose is to give all students an overview of common strands in life science including, but not limited to, diversity of living organisms, structure and function of cells, heredity, and ecosystems.

**8TH GRADE PHYSICAL SCIENCE:** This course is an introduction into the world of Chemistry and Physics. Students will examine matter and its interactions with a concentration on the composition and properties of matter. Students will further examine motion, the interactions of forces, energy conservation and transformation. Scientific inquiry, problem solving, and the experimental process are emphasized throughout this study.

**9TH GRADE BIOLOGY:** Biology is a required, inquiry-based course focused on providing all high school students with foundational life science content about the patterns, processes, and interactions among living organisms. Content standards within this course are organized according to the disciplinary core ideas for the Life Science domain including Molecules to Organisms, Structure and Function, Ecological Concepts, Inheritance and Variations of Traits, and Unity and Diversity of Organisms. The standards provide a depth of conceptual understanding to adequately prepare them for college, career, and citizenship with an appropriate level of scientific literacy.

**PRE-AP BIOLOGY 9:** This is an accelerated, inquiry-based science course designed for students who have shown the ability to understand and apply advanced concepts to the study of science. Students taking this course focus on analytical reading and writing, the application of mathematics and the use of models to analyze the world around them. Content standards within this course are organized into the disciplinary core ideas for Ecological Systems, Transformation, Cellular Systems and Genetics. The standards provide a depth of conceptual understanding to adequately prepare them for college, career, and citizenship with appropriate levels of scientific literacy. **It is recommended that students benchmark Pre-ACT assessment with a benchmark readiness score of 17 or higher in science, as well as maintain a 90 average or higher in current 8th grade math class.**

**A student who completes a Pre-AP course with a “90” semester average or higher, will have 5 points added to his/her semester average. In addition to the added 5 points, students will receive additional weight to their GPA for completing a Pre-AP course.**

**10TH GRADE PHYSICAL SCIENCE:** This course deals with the substances and processes that encompass our universe on both microscopic and macroscopic levels, components of forces and motion, types of interactions, stability/instability in physical systems, the conservation of energy, energy transformations, applications of energy to everyday life, wave properties, electromagnetic radiation, and information technologies and instrumentation.

**10TH GRADE HONORS PHYSICAL SCIENCE:** This course is designed for the advanced level student who desires a more challenging course of study. Students will experience a more in-depth study of the four disciplinary core ideas for the Physical Science domain which are, (1) Matter and Its Interactions; (2) Motion and Stability: Forces and Interactions; (3) Energy; and (4) Waves and Their Applications in Technologies for Information Transfer. Students interested in taking Physics their senior year would benefit from this course. **It is recommended that students benchmark Pre-ACT assessment with a readiness score of 18 or higher in science or a readiness score of 21 or higher for STEM, maintain a “90” or above average in current level science, and have teacher approval. A student who completes an Honors course with a “90” semester average or higher, will have 5 points added to his/her semester average. In addition to the added 5 points, students will receive additional weight to their GPA.**

**11TH GRADE CHEMISTRY:** Chemistry is an inquiry-based course. Students will explore the fundamental principles of chemistry, which characterize the properties of matter and the changes it undergoes. The following topics will be explored: matter and changes, measurements and calculations, atoms, electron arrangement, periodic table and properties, chemical bonding, chemical formulas, equations and reactions, stoichiometry, properties of liquids and solids, gas laws, solutions, and acids and bases. Laboratory investigations will be used to obtain, organize and analyze data that prepares students for college-level science studies. **It is recommended that a student maintain a “90” average in Honors Physical Science, have demonstrated a strong math background, and have teacher approval. Chemistry is required for the Advanced College Diploma.**

**11TH GRADE HUMAN ANATOMY & PHYSIOLOGY:** This course will provide students with the basic understanding of the structure (Anatomy) and function (Physiology) of the human body. Emphasis will be placed on cell and tissue structure as well as an extensive examination of the major organ systems. Information from this class will provide students with a general knowledge of health related issues while adequately preparing interested students for a career in the life sciences.

**12TH GRADE AP BIOLOGY:** AP Biology is an introductory college-level biology course. Students cultivate their understanding of biology through inquiry-based investigations. The following topics will be explored: cellular processes, energy and communication, genetics, information transfer, ecology, and interactions, and evolution. This course is equivalent to a two-semester college introductory biology course. **All students taking the AP course will be required to take the AP exam. The fee for each Advanced Placement exam is \$110. It is recommended that a student maintain a “90” or above average in Biology & Chemistry and have current science teacher approval. A student who completes an AP course with an “85” semester average or higher, will have 10 points added to his/her Semester Average. In addition to the added 10 points, students will receive additional weight to their GPA.**

**12TH GRADE ENVIRONMENTAL SCIENCE:** This course is an introductory study of natural and man-made environments and environmental problems the world faces. Students will

examine how human actions have and are continuing to influence the world around them. Students will be challenged to examine how their own daily habits impact the environment. Areas of emphasis will be ecology, the dynamic nature of the earth, populations, biodiversity, water quality, air quality, land quality, agriculture and waste management.

**12TH GRADE HONORS PHYSICS:** Physics is an advanced level science course. An understanding of basic algebra and trigonometry will be necessary for success in this course. Students will explore the fundamental principles of physics, which focus on the study of forces, motion and energy. The following topics will be explored: acceleration, motion in two dimensions, Newton’s laws of motion, work and energy, momentum and collisions, gravity and circular motion, temperature and heat, thermodynamics, waves, light, and sound. Laboratory investigations will be used to obtain, organize and analyze data that prepares students for college. **It is recommended that a student has maintained a “90” or above average in Chemistry & Pre-Calculus and has a current science teacher recommendation. A student who completes an Honors course with a “90” semester average or higher, will have 5 points added to his/her semester average. In addition to the added 5 points, students will receive additional weight to their GPA.**

## **FOREIGN LANGUAGE**

**SPANISH A:** This is a semester-long, middle school elective course that introduces students to the Spanish language. It begins with introductory vocabulary and everyday expressions, pronunciation skills, and basic grammar concepts that lead to sentence structure. This course is designed to prepare students to excel in Spanish I.

**SPANISH B:** This is a semester-long, middle school elective course. This class builds on the concepts from Spanish A. Students will learn how to conjugate verbs and continue to build their vocabulary. This course is designed to prepare students to excel in Spanish I.

**SPANISH I:** This course continues the path to fluency by introducing students to useful vocabulary, high frequency expressions, conjugation of verbs in the present and past tense, while developing their basic conversational skills. Students will develop their speaking, listening, reading and writing skills in the target language through the practice of vocabulary, grammatical concepts, and cultural lessons on Hispanic countries.

**Spanish I is required for the Advanced College Prep diploma.**

**SPANISH II:** This course continues the path to fluency in Spanish, reviewing key grammatical concepts learned in Spanish I and introducing new grammatical concepts and verb tenses. The students further develop communication skills (listening, reading, writing, and speaking) in the target language through activities that challenge them to communicate on interpersonal, interpretive, and presentational levels.

**Spanish II is required for the Advanced College Prep diploma.**

**HONORS SPANISH III:** This course deepens the level of fluency in Spanish, introducing more complex grammatical concepts that require a confidence in interpersonal, interpretive and

presentational forms of communication in the target language. Students learn more about the history and culture of Hispanic countries through extensive reading passages, lectures, and research. Students will take the National Spanish Exam as a Spanish III student.

**Prerequisite: Spanish I & II**

**A student who completes a Honors course with a “90” semester average or higher, will have 5 points added to his/her semester average. In addition, the GPA weight is added regardless of semester average.**

**HONORS SPANISH IV:** This course sharpens the level of fluency in Spanish, aimed at an intermediate high level. Students master high-level grammar concepts that prepare them for the type of communication required in college level language courses. The students perfect their interpersonal, interpretive and presentational skills as they manipulate language in new ways.

**Prerequisite: Spanish I, II & III**

**A student who completes a Honors course with a “90” semester average or higher, will have 5 points added to his/her semester average. In addition, the GPA weight is added regardless of semester average.**

## **FINE ARTS**

**SENIOR HIGH ART (9TH-11TH GRADE):** This is an introductory, foundation high school course that introduces students to the visual arts, the elements of art, and the principles of design, while developing a technical level of skill with various tools and media. Students will explore a variety of artists, art processes, and materials such as drawing, painting, printmaking, two and three dimensional design, and graphic design, digital art, and virtual reality(VR) artmaking. Student artwork will reflect aesthetics within cultural and historical contexts. Emphasis will be placed on creating more complex visual statements. Students at any level should have an artistic curiosity and a willingness to explore the creative process. Art will be differentiated according to student knowledge, skills, interests, and ability. Students taking multiple years of art will have their progressive experience reflected on their transcript ( Art I, Art II, Art III).

**JUNIOR HIGH ART (7TH & 8TH GRADE):** This is a junior high course for 7th and 8th grade students which builds on the skills learned in the elementary grades and provides a transition to Senior High Art. Students are challenged to begin exploring theoretical concepts associated with art making. While students will continue with 2D (painting, drawing, collage) and 3D art (clay and paper sculpture), more complex tools and media such as printmaking, assemblage sculpture, graphic design, and digital art are incorporated at the junior high level. Students explore a variety of artists and art processes while learning responsibility and safety in handling more advanced art tools. Students will explore the creative process through individual and collaborative projects. Art will be differentiated and assessed according to student knowledge, skills, and ability.

**SENIOR ART (12TH GRADE):** This Senior art course is differentiated and assessed according to student experience and knowledge. This is primarily a TAB (teaching for artistic behavior) course in which students explore 2D, 3D, and digital art while experimenting with

materials, techniques, and processes according to interest and experience. Individual and collaborative projects are approached. The course culminates with a senior tile project.

**JR. HIGH DRAMA:** Students will have an opportunity to explore the theater world through improvisation and theater games, acting, and playwriting. This course will also cover the technical side of theater. Students will have the opportunity to create puppets, costumes, explore stage makeup..

**MIXED CHOIR GRADES 7-9:** Mixed Choir explores a variety of music styles throughout the school year including pop and holiday music, music from other cultures, and traditional choral literature. Singers learn about and practice correct vocal technique, vocal health, sight-reading, and music theory as they develop improved musicianship. Opportunities are offered for concert performance, solos, honors choruses, All-State Choir, and field trips. No audition is necessary.

### **ELECTIVE COURSES (listed in alphabetical order)**

#### **ACADEMIC COMPETITION TEAMS:**

- **Scholars Bowl:** An academic competition team in which students compete against other schools in order to answer questions from all areas of knowledge such as history, literature, science, fine arts, current events, popular culture, sports, and more.
- **Science Olympiad:** Employs cross-cutting concepts in all of its standards-aligned events, building 21<sup>st</sup> century skill sets essential to today's science, technology, engineering and math (STEM) workforce. There are 23 events each in Division B (middle school) and Division C (high school), providing a platform for students to apply and display a wide variety of talents, from design and prototyping, to technical writing, to chemistry lab skills. A team of 15 students pairs up to tackle the 23 events which are generally spaced in six 50-minute blocks across a Saturday, encouraging collaboration, teamwork and cross-training.
- **Math Team:** is available for middle school (7th and 8th grade) and high school (9th - 12th grade). We are a competition team that will compete in at least three competitions per year. Students who wish to join a math team should have a strong math background.

**ACT PREP:** This is an Elective Course that is being offered to Sophomores and Juniors to prepare them for the College Entrance Exam known as the ACT. The focus will be on preparation to take the College Entrance Exam by learning strategies and skills needed to master the four areas that are tested: English, Math, Reading, and Science.

**BIBLE (7TH GRADE):** The first semester of this course -Biblical Worldview discusses questions like *Where did everything come from? Who am I? Why am I here? What's right and wrong and who decides? What happens when we die?* The second semester of this course walks through God's overarching plan for creation and the book of Acts.

**BIBLE (8TH GRADE):** This course is an intense study into the life of Jesus. Students will study the Gospel of John discussing the life and work of Jesus in the context of 1st century Israel and our world today.

**SENIOR HIGH BIBLE (9TH-12TH GRADE):** In the book of Proverbs, Solomon wrote that the fear of the Lord is the beginning of wisdom. This course will walk through the book of Proverbs teaching students to apply Godly wisdom to decisions in high school and beyond.

**CHARACTER COUNTS:** Character Counts is a yearlong class for twelfth grade students. We will focus on character education through service. We will be participating in various service projects and participating in a mentoring program with at-risk students in the elementary school. This year we will be utilizing the *43 Lessons to Legacy* curriculum, as well as studying *Life's Greatest Lessons* by Hal Urban. Within this class, students also participate in the Chick-fil-A Leader Academy.

**COMMUNICATION AND MEDIA:** Communication is designed to educate students on the ever-changing digital world as well as to provide hands-on experience with software equipment. Topics covered in this class include graphic design animation, audio production, video production, and storage/organization. Media teaches the fundamentals of media representation, storage, communication, and processing by digital means, with an emphasis on audio, still images, and video media.

**CREATIVE WRITING (10TH-12TH GRADE):** This course is for students who enjoy writing as a form of art and personal expression. Students will explore and practice writing in different genres. Those genres include, but are not limited to nonfiction, short fiction, poetry, and drama. Throughout this course students will engage in a variety of activities designed to improve writing. Development activities include writing workshops, literary element lessons, mentor text reviews, and peer reviews. This course is meant to be a writing community in which students share what they write. Students will capture their writing in both traditional print and multimedia formats.

**DUAL ENROLLMENT:** College classes are available to grades 10-12 and can be taken during the summer and/or school year. They may be completed online or at the college. (Options include: Southern Union State Community College, Wallace State Community College, Troy University, University of Alabama. These courses may not replace core academic courses taught at LSA required for graduation.

LSA offers **College Calculus I and II** and also **PreCalculus** taught on LSA's campus to seniors (for math core credit). **There will be a required summer assignment that must be completed and turned in on the first day of school.** Students who enroll in Calculus I, II or PreCalculus **MUST** dual enroll (through SUSCC). Students enrolled in **Dual Enrollment Calculus I** are expected to dual enroll in **Dual Enrollment Calculus II** for Spring semester. (College tuition and fees apply to all Dual Enrollment courses.) Students who successfully complete dual



enrollment classes will be awarded both high school and college credit. Interested students should see the Counselor.

**FILM AND FICTION (GRADES 7TH & 8TH):** This course will focus on film adaptations of novels and short stories, paying special attention to similarities and differences in narrative technique. Students will view various types of film adaptations and consider reasons for changes in works of fiction by looking at contrasts between the presence or absence of specific scenes and plot elements. The course will emphasize the challenges in adapting a work of literature to the screen, the limits and possibilities of both art forms, and the techniques writers and filmmakers use to express their ideas. In addition to discussing works of fiction, film adaptations, and the roles of film director, screenwriter, and film scorer, students will have the opportunity to work on their own cinematic adaptation of a short story through screen writing, movie trailers, and storyboards.

**HEALTH (8TH GRADE):** This course is designed to provide information needed to help students make important decisions about health and well-being. Health topics will be taught from a Biblical Worldview and include: Foundations of Healthy Living, Personal Boundaries, Healthy Relationships with Friends and Family, Protecting purity / Respecting Sexuality, Handling Stress and Feelings, Alcohol/Tobacco/Vaping/Other Drugs, Nutrition and Physical Health. Emphasis will be placed on the student's acquiring knowledge and assuming responsibility for one's own health. This class meets the .5 health requirement for graduation.

**HEALTH (12TH GRADE-ONLINE):** This one semester course is an online study of the basic concepts of health and wellness including: *foundations of health; mental & emotional health; nutrition and physical activity; alcohol, other drugs and tobacco; healthy relationships*. This class is for seniors who have NOT completed the health class requirement for graduation.

**KEYBOARDING (GRADES 9TH-12TH):** This class is designed to teach students the proper technique and efficiency when typing on the computer. Students will increase finger dexterity, skills and proficiencies necessary for quick and accurate information processing on any keyboard.

**LEADERSHIP IN EVERYDAY TEENS (10TH & 11TH GRADE):** This course is for students who want to be involved in extracurricular activities at LSA. Students will be responsible for school wide activities, fundraisers and service projects with an emphasis on event planning and information dissemination required to build community and create a positive educational environment. Students who wish to develop the following skills: leadership, preparation of leadership roles in the school and community, good citizenship and service are encouraged to enroll for this course.

**MATH LAB 7:** Math Lab 7 is an elective course meant to supplement 7th grade math. The focus of this course is on making sense of problems and persevering to solve problems. This class will also help students learn how to study math. Teacher recommendation is needed to get into this course.

**MATH LAB 8:** Math Lab 8 is an elective course meant to supplement 8th grade math. The focus of this course is on making sense of problems and persevering to solve problems. This class will also help students learn how to study math. Teacher recommendation is needed to get into this course.

**PHYSICAL EDUCATION (GRADES 7-12):** Physical education is meant to develop the student in having a general understanding of wellness and fitness that will increase the quality and productivity of life. Helping students to gain an understanding that a physically fit body increases the overall effectiveness of learning and general good health now and in the future is a goal. Students must earn 1.0 credit between grades 9-12. The PE credit may be earned in the following ways:

- participation in year-long non-team sports related PE
- participation in year long band
- participate in 2 semesters of a team sport

**ROBOTICS/CODING:** The objective of this course is to introduce students to the field of Robotics and simulate their interests in science and engineering through the participation of the entire engineering design process. This course covers a variety of multidisciplinary topics necessary to understand the fundamentals of designing, building, and programming robots. During this course, students will be required to gradually complete the design and construction of a robot using the Vex Robotic System kit and follow the constraints and objectives for competing on the final project demonstration. Students can expect to participate in local and state competitions. **CODING (2nd Semester)** This course presents the basic principles of programming, including algorithms and logic. Students will engage in various programming interactivities that will reinforce their learning and understanding. The course also guides students as they are asked to write and test their own code, using either Python or Block-style coding through Vex VR.

**ACADEMIC PREPARATION:** This course is designed to allow students to maximize their academic progress during school hours. Students will be able to work independently or in small groups.

**WORK LEAVE:** Juniors may select work leave for one period junior year and one during their senior year. Seniors that did not take work leave as a junior may select work leave for two periods as a senior. More information and forms will be distributed the first week of school. A maximum of 2 credits may be earned with Work Leave throughout the **entire** high school career. If a student receives these 2 credits during the junior year, he/she will not be allowed to take Work Leave as a senior.

**YEARBOOK (GRADES 10-12):** While working together as a staff, students taking this course will produce the yearbook. Students will develop marketable skills such as meeting specific deadlines, time management, sales, teamwork, taking on publication roles, designing principles, photography, and feature writing, all while producing a creative, innovative yearbook which records school memories and events. There is an emphasis on journalism skills. Proofreading and

editing skills will continually develop throughout the course. The main focus, of course, is working toward the completion and selling of a large finished product, Lee-Scott Academy's **The Warrior**. This task must be met with the highest expectations. Students should have an interest in their school and community and have a good work ethic and maintain above average grades. No homework will be required, unless the student needs the extra time to complete pages on our online website.