ST. LUKE'S EPISCOPAL SCHOOL
Upper School Course Catalog
2017-2018

This course catalog is designed to give students and their parents' insight into the curriculum offered in the Upper School for the 2017-2018 school year. All courses meet or exceed SACS (Southern Association of Colleges and Schools), SAIS (Southern Association of Independent Schools), AHSAA (Alabama High School Athletic Association) and NCAA (National Collegiate Athletic Association) requirements.

English Department:

English 9

English 9 solidifies the student's writing repertoire: exposition, persuasion, narration, comparison and contrast, description, and literary analysis. In addition to composing final drafts, students will also be required to complete timed essays and a research project with a published paper. Students will continue the study of vocabulary, grammar and usage, with particular emphasis on sentence composition, revision, and application. Freshman English is the backbone of a student's knowledge and study of literature including the novel, short story, essay and poetry. This study will foster and strengthen the student's ability to analyze literature and read critically.

English 10

English 10 continues building and fine tuning the student's writing portfolio. Students write essays and compose a documented research paper. Grammar in English 10 integrates the rules and conventions of standard grammar in compositions. Refined sentence writing skills incorporate greater sentence variety in all modes of writing. Vocabulary requires application of affixes to build and improve vocabulary, read critically, and determine parts of speech.

English 11

This course follows a rough chronology of American Literature. The curriculum begins, paradoxically, with a 20th century play, The Crucible. This work introduces the culture of the Puritan era while examining its connection to 20th century politics. Literary genres and themes are explored through a study of texts by major authors including Hawthorne, Melville, Whitman, Twain, James, Fitzgerald, Faulkner, Frost, And Flannery O'Connor, and by selected authors such as Toni Morrison, Harriet Jacobs, Kate Chopin, David Guterson, Lorraine Hansbury, and Joyce Carol Oates. Included in the course will be an extensive examination of poetry from the 19th century to the present. Building on skills in freshman and sophomore years, the student will further develop writing skills in narration, description, exposition, argumentation and research.

AP English Language & Composition 11

In AP English Language and Composition, students deepen their understanding and awareness of how language works by focusing on three skills: analysis (with a concentration on rhetoric), argument, and synthesis. Students engage in close reading of nonfiction (essays, biographies, autobiographies, speeches, newspaper and magazine articles) from a variety of historical periods from the arts, politics, science and other areas of study. Students consider the visual media that surrounds them whether spoken, displayed or broadcasted and writing assignments will include formal and informal responses, finished and on demand, as well as analytical and argumentative essays. As a college level course, the performance expectation for written work and class participation is high and the workload is challenging. While one goal of the course is taking the AP Language test in May, the primary objective is to sharpen the skills necessary to succeed not only in a college classroom

but as thoughtful, educated, and responsible public and private citizens. Admission to this class is based on academic achievement, student interest, and teacher recommendation.

English 12

English 12 deepens the students' understanding of literature as well as prepares them for the rigor of academic writing expected of students at the collegiate level. Through reading a variety of literature including prose, poetry, and drama, students engage in thoughtful discussion and analysis of who are, where we come from, and where are we going. Essential to this is the ability to think critically and write fluently. The course also emphasizes the writing process, public speaking, collaborative assignments, research skills, outside reading, grammar review, and vocabulary enrichment.

AP English Literature & Composition 12

Through close reading, academic writing, and engaging discussion, this course will serve as an introductory literature and composition class offered at the university level. This course will follow the curricular requirements as outlined and defined in the AP English Course Description. Students will use both classical and contemporary prose, poetry and drama as a platform to engage in a deeper understanding and appreciation of textual details including figurative language, imagery, symbolism, tone, structure, style and theme as well as the work's social, cultural and/or historical values. To express this appreciation and understanding, students will write a variety of responses including timed/extended, formal/informal, evaluative, interpretative, analytical, exploratory, argumentative, and creative compositions. Students will engage in the writing process on all compositions to extend their use of vocabulary, grammar, structure, tone, and voice. Admission to this class is based on academic achievement, student interest, and teacher recommendation. Students are required to sit for National Advanced Placement Examination in May. There is a charge for the exam.

Mathematics Department:

Algebra I

Algebra I is a basic preparatory math course for college-bound students. The course is a study of the structure and properties of the real number system. It includes concepts such as polynomials and their factors, linear equations and systems of linear equations, solving inequalities, and rational expressions. Function notation and radical expressions are introduced.

Geometry

This course develops the core concepts of Euclidian geometry using the basic elements of points, lines and planes. It also includes topics such as congruency and similarity, parallelograms, special right triangles and basic trigonometric ideas, circles, and surface area and volume of solids. Algebra I prerequisite and achievement qualifications apply.

Algebra II with Trigonometry

Algebra II covers the real and complex numbers focusing on equations, functions, and inequalities of the following types: linear, quadratic, polynomial, radical, rational, exponential, and logarithmic. In addition, the course includes an introduction to conics. Prerequisite: Geometry

Algebra III with Trigonometry

Algebra III with Trigonometry is a preparatory course for college level math that will enhance the higher level thinking skills developed in Algebra II through a more in-depth study of those concepts and exploration of some pre-calculus concepts. Students in Algebra III/Trig are challenged to increase their understanding of algebraic, graphical and numerical methods to analyze, translate and solve quadratic, polynomial, rational, exponential and logarithmic functions. Modeling real world situations is an important part of this course. Sequences and series are used to represent and analyze real world problems and mathematical situations. Algebra III also includes a study of trigonometric functions, right triangles, and oblique triangles.

Honors Pre-Calculus

Honors Pre-Calculus provides students with a solid foundation of concepts, techniques, and applications needed for the study of calculus and other high-level mathematics courses. The course focuses on the study of functions, trigonometry, polar coordinates, complex numbers, conics, and logarithms. The use of a graphing calculator is important. Prerequisite: Algebra II.

Statistics (12th Grade)

This course is a thorough, yet accessible program designed to help students overcome their apprehensions about statistics. This course provides clear guidance and informal advice while showing students the links between statistics and the world. To reinforce this approach, real- life data from a variety of sources including journals, periodicals, newspapers, and the internet will be integrated into the course. This course will also address the importance of developing students' critical thinking and statistical literacy skills through special features and exercise.

AP Calculus (12th Grade)

Philosophy Calculus AB is designed to be taught over a full high school academic year. It is possible to spend some time on elementary functions and still cover the Calculus AB curriculum within a year. However, if students are to be adequately prepared for the Calculus AB examination, most of the year must be devoted to topics in differential and integral calculus as these topics are the focus of the AP Exam. Calculus is primarily concerned with developing the students' understanding of the concepts of calculus and providing experience with its methods and applications. The course emphasizes a multi-representational approach to calculus, with concepts, results and problems being expressed graphically, numerically, analytically and verbally. The connections among these representations also are important. Broad concepts and widely applicable methods are emphasized. Technology should be used regularly by students and teachers to reinforce the relationships among the multiple representations of functions, to confirm written work, to implement experimentation, and to assist in interpreting results. Through the use of the unifying themes of derivatives, integrals, limits, approximation, and applications and modeling, the course becomes a cohesive whole rather than a collection of unrelated topics. Admission to this class is based on academic achievement, student interest and teacher recommendation. Students in this course are required to sit for National Advanced Placement Exam in May. There is a charge for the exam.

History Department:

Modern World History (9th Grade)

Modern World History is the study of the world from the early modern era through the present. Emphasis is placed on understanding of culture and the forces which have shaped history, including geography, art, architecture, politics, philosophy, religion and technological innovations. Outside readings are used to emphasize the material studied. The course encourages the students to utilize higher-level cognitive skills, to analyze cause and effect relationships, to develop an understanding of how the past influences the present and the future. Considerable attention is given to current events throughout the academic year. Outside readings are used to expose students to great world literature and current relevant issues.

United States History I (10th Grade)

The study of history of the United States I begins with the early Americans and tracing America's foundation through the American Civil War. Students are involved in a chronological study of major events, issues, movements and leaders of the United States. Students are actively involved in and are challenged by the level of expectation inherent in the required content of this course. With more fully developed skills in abstract thinking, students compare, analyze, and explain events and developments rather than simply list or identify them.

United States History II (11th Grade)

The study of history of the United States continues a journey through the economic, geographic, social, and political development of the United States. Beginning with the post-Reconstruction of the United States and its shift into a more industrialized society, the course continues through the 20th century to the present. Students are involved in a chronological study of major events, issues, movements, and leaders of the United States. Students are actively involved in and are challenged by the level of expectation inherent in the required content of this course. With more fully developments rather than simply list of identify.

Pre-AP US History (10th Grade) and AP US History (11th Grade) (10th & 11th Grade Consecutive Course)

The objective of AP U.S. History I and II which is a two year course is to increase the student's understanding of the United States History from discovery to the present with the goal of having each student pass the Advanced Placement exam at the end of the second year. The areas of concentration include historical, political, and economic history joined with an intense study of cultural and intellectual institutions and their development. This course is taught at the collegiate level. The major differences between high school and college history courses are the amount of reading and the focus. Most high school courses focus on " What happened?" intending to provide enough background to ensure good citizenship. College courses stress "Why?" and "How?" things happen, as well as the consequences of actions. Students enrolled in AP course are required to sit for the National Advanced Placement examinations provided by the College Board in May. There is a charge for the exam, and students are billed for this in their tuition. Admission to the class is based on academic achievement, student interest, and teacher recommendation.

Government / Economics (12th Grade)

Government/Economics are two separate one-semester courses. Government will be taken one semester of senior year, and Economics will be taken during the other semester. Government is a general survey course designed to expand a student's knowledge of the function and purpose of the United States government. The course begins with an introduction to the three branches of government and their Constitutional mandates. Next,

students will learn about the different political parties and institutions as they pertain to government, and will study different social issues and important judicial decisions that affect the political landscape. Economics is designed to give students an understanding of macro and micro economic principles. The course covers basic supply and demand, market structures, and forces that affect economic growth. Students will also study current economic problems such as inflation, recession, and depression. Students will be expected to examine and evaluate the current economic situation in the United States and how it relates to the global economy.

AP European History (12th Grade)

Advanced Placement European History is the study of the history of Europe from the Renaissance to the present, with emphasis on the major trends and issues during this period of time. The requirements include additional reading and writing, and increased student responsibility to prepare and participate in class discussions and other activities. Assignments require more complex analytical and critical thinking skills than those in the World History II class. Emphasis is placed on preparing the student to take the required national AP European History exam at the end of the school year. Admission to the class is based on academic achievement, student interest and teacher recommendation. AP courses are intended to offer a college level academic program. Students enrolled in AP courses are required to sit for the national Advance Placement examination provided by the College Board in May. There is a charge for the exam and students are billed for this in their tuition statement. This is a senior elective course.

Science Department:

Biology (9th Grade)

Biology is a laboratory-oriented introduction to the basic biological principles with evolution as an underlying theme. Topics will include biochemistry, cell structure and function, genetic principles, anatomy and physiology, taxonomy and ecology. Biology is a required course.

Chemistry (10th Grade)

Chemistry is an introductory course which develops student understanding of atomic structure, periodic trends, chemical bonding, reaction stoichiometry, the gas laws and introduces thermodynamics. The course is conducted as a lecture/laboratory-oriented experience. It is designed to be a challenging course that will develop critical thinking and problem solving skills. Chemistry or Honors Chemistry is a required course.

Pre-AP Chemistry (10th Grade)

Honors Chemistry is a more mathematics based introductory course which develops student understanding of atomic structure, periodic trends, chemical bonding, reaction stoichiometry, the gas laws, and introduces thermodynamics, nuclear chemistry and chemical equilibria. The course describes the use of chemistry in applied technological applications and it is conducted as a lecture/laboratory-oriented experience.

Physics (11th Grade)

The College Preparatory Physics course provides students with an understanding of the interrelationship of matter, energy, and the forces of nature. Emphasis is placed on practical applications of physics in our daily lives. Topics include Newton's Laws of Motion, energy, work and power, heat and introduces thermodynamics, light, magnetism, and sound. Appropriate opportunities for mathematical reasoning and laboratory investigation are utilized throughout the year. Physics or Honors Physics is a requirement for graduation.

Honors Physics (11th Grade)

Honors Physics is an in-depth study of the relationship between matter, energy, and the forces of nature. Newtonian mechanics, thermodynamics, wave motion, electricity, magnetism, light, sound, and modern physics are investigated through problem solving and the scientific method. The class moves at an accelerated pace with a heavy emphasis on mathematical reasoning. Physics or Honors Physics is a required course for graduation. PREREQUISITES: Algebra II/Trig or teacher recommendation. The mathematics prerequisite may be waived with appropriate teacher recommendations.

Anatomy and Physiology (12th Grade)

Anatomy and Physiology is designed to provide an integrated view of how the human body works. Each of the body systems will be studied in detail. Computer simulations and dissections will be used to show how anatomy (structure) and physiology (function) are related. Basic chemistry, medical terminology, cell biology, and tissue organization will be covered. Organ systems to be studied include the integumentary, skeletal, muscular, nervous, endocrine, circulatory, lymphatic, digestive, respiratory, urinary, and reproductive systems.

Marine Biology (12th Grade)

Marine biology studies the dynamic processes of the world's oceans and seas. Coursework includes physical and chemical analysis of ocean water, examination of the ocean floor and coastal features, investigation and measurement of currents, waves, and tides, and analysis of the interaction of atmosphere and sea. Marine life and ocean and coastal habitats will also be studied.

AP Chemistry (11th or 12th Grade)

The AP Chemistry course is designed to be the equivalent of the general chemistry course usually taken during the freshman year of college. Topics such as the structure of matter, kinetic theory of gases, chemical equilibria, chemical kinetics and the basic concepts of thermodynamics are covered in considerable depth. An emphasis on chemical calculations and the mathematical formulation of principles, and the nature and variety of experiments done in the laboratory differentiates the AP course from Honors Chemistry. Prerequisites: Algebra II/Trig and Honors Chemistry. The prerequisites may be waived with appropriate teacher recommendations. Students enrolled in AP courses are required to sit for the national Advance Placement examination provided by the College Board in May. There is a charge for the exam, and students are billed for this in their tuition statement. This course is being offered in 2017-2018 and will be offered in alternate years with AP Biology.

AP Biology (11th or 12th Grade)

AP Biology is an introductory collegiate level biology course. Students cultivate their understanding of biology through inquiry based investigations as they explore the following topics: evolution, cellular processes-energy and communication, genetics, information transfer, ecology, and interactions. A minimum of 25% of the instruction time will be spent in hands on laboratory work with an emphasis on inquiry based investigations that provide students with opportunities to apply scientific practices and skills. Student placement in the course is based on successful completion of Biology and Chemistry, AP Biology potential score, and teacher recommendation. Students are required to sit for the National Advanced Placement Exam in May. There is a fee for this exam. This course is offered in alternate years with AP Chemistry. It will be offered again in 2017-2018.

Foreign Language Department:

Spanish I

Spanish I is a full year course that focuses on developing skills in reading, writing, listening, speaking and cultural literacy in the target language. This involves a great deal of active conversation and participation. Sample topics include basic greetings and introductions, leisure activities, and personal descriptions. Various authentic resources are used such as movies, music, and other media. Grammatical structures will also be explored to achieve communicative goals. Student proficiency is evaluated through a testing program that features quizzes and tests based on listening, reading, and writing comprehension.

Spanish II

Spanish II is full year course for those who have successfully completed Spanish I. Students will continue to develop skills in reading, writing, listening, speaking, and cultural literacy in the target language. Sample topics include travel, leisure activities, daily routines, health and healthcare, and narration of past and future events. Various authentic resources are used such as movies, music, and other media. Grammatical structures will continue to be explored to achieve more advanced communicative goals. Evaluation follows the same format established in Spanish I

Spanish III

Spanish III is a full year course for those who have successfully completed Spanish I & Spanish II. Students will continue to develop strong skills in reading, writing, listening, speaking and cultural literacy in the target language. Throughout the course, conversation and practice are emphasized along with grammar and mechanics. Hispanic culture and cultural themes are also integrated into classes by learning about cultural practices, products and perspectives of the Hispanic world. Students will also write shore essays and have activities to reinforce concepts learned and practiced in class. This course will focus on past, future, and conditional tenses, as well as the subjunctive mood. Evaluation follows the same format established in Spanish I & II.

Honors Spanish IV

Students will continue to develop strong skills in reading, writing, listening, speaking and cultural literacy in the target language. Student will read and study about the culture, geography, and the history of the Spanish speaking world. Classroom discussion will center on readings of literary selections from Spanish and Latin America. Students will also be writing in response to the readings. Student proficiency is evaluated through quizzes and tests based on listening, reading, and writing comprehension. Admission to this class is based on academic achievement in Spanish III and teacher recommendation.

Latin I

Latin I includes the study of basic vocabulary and grammar, conjugation of verbs in four tenses in the active voice, declension of nouns and adjectives of the first three declensions, and the reading and translation of passages in simple Latin. Emphasis is placed on Latin used in English today and on modern derivatives from Latin roots and prefixes. A survey of Roman culture includes lessons on classical mythology, Roman history, and daily life in the ancient world. Cultural units include Roman sports and entertainment, festivals, the house, family life, and meals. The testing program features quizzes and tests assessing skill mastery in vocabulary, grammar structures, and translation.

Latin II

Latin II concentrates on extending the study of verbs, nouns, and grammar begun in Latin I. Grammar study expands to include thorough understanding of participles, infinitives, fourth and fifth declension nouns, personal, relative, and interrogative pronouns, and irregular and comparative adjectives, as well as basic subjunctive tenses and uses. Emphasis is placed on reading Latin passages taken from ancient authors. Study continues to focus on etymology of English words derived from Latin, and cultural themes include Roman history, art and civilization, and famous people from this period. The testing program features quizzes and tests assessing skill mastery in vocabulary, grammar structures, and translation.

Latin III

A review and strengthening of students' ownership of Latin grammar, syntax, and vocabulary acquired at the previous levels of Latin study. Readings from Latin authors supplement instruction in grammar, syntax, and vocabulary. Translations include Historians such as Livy and Julius Caesar as well as selections from the story of the Golden Fleece. Admission to the course is based on academic achievement and teacher recommendation.

Honors Latin IV

A review and strengthening of students' ownership of Latin grammar, syntax, and vocabulary acquired at the previous levels of Latin study. Readings from Latin authors supplement instruction in grammar, syntax, and vocabulary. Careful study of a selection of authors, themes, and genres from the beginnings of Rome to the fall of the Roman Empire. Authors include Pliny, Catullus, Cicero, Sallust, Horace, Juvenal, Suetonius, Tacitus, Ovid, Virgil, et al. Admission to the course is based on academic achievement and teacher recommendation.

Fine Arts Department:

Art I

Art I addresses the question, "What is art?" Students will become familiar with the elements of art and the principles of art. They will learn to critique and describe art works based on artistic elements used. They will then apply these concepts to their own art work.

Art II

Art II will explore art through the ages from prehistoric art all the way through today. The students are expected to be able to identify different time periods, artist, and pieces of art work. They will learn more advanced techniques in a variety of media. They will tackle more challenging projects and should continue to develop their own style.

Art III

Art III will take the skills learned in Art I and Art II and focus on the development of drawing and learning to see like an artist. They will then progress to a thorough study of color theory to enhance their art work. Students will be drawing from still lifes, their imagination, along with portraits to create original works of art.

Art IV

Art IV uses the skills and concepts learned in Art I, II, and III to create more advanced works of art. Two and three dimensional media is explored by students at a higher level applying their knowledge of production,

elements of art and principles of design to create meaningful original works for inclusion in a portfolio. Admission is based on teacher recommendation.

Center Stage I, II, III, IV

Center Stage is designed to give young people the opportunity to learn about the art of the theatre in an environment that is challenging as well as nurturing. Students will develop a sense of stage presence that will serve them in setting other than theater. The arts curriculum will train students not just as performers but also as creative thinkings and problem solvers in a manner that will positively impact their lives for many years to come.

Chorus I, II, III, IV

The purpose of this course is to give students an opportunity to develop fundamental individual and ensemble skills in choral performance through preparation of various choral literatures for high school voices. Emphasis will be placed on healthy and expressive vocal musicianship, technical skills, and aesthetic awareness. The content includes but is not limited to vocal production, choral performance techniques, music literacy, sight reading and ear training elements. Students will study characteristics of music, performance analysis, role and influence of choral music and musicians. Participation in music activities is required. Performances include school activities as well as special events within the community.

Concert Band I, II, III, IV

Advanced band is open to all students who demonstrate ability above the beginner level. Advanced middle and upper school students are combined to create the concert band. Students in this ensemble will continue to learn music fundamentals. The study of music is based upon a repertoire chosen by the director with input from the students. The performance year includes pep band music, and Christmas themed music in the fall and a variety of spices in the spring. Student achievement is evaluated through playing tests, written assignments, class participation, performance attendance, and various in class assignments. Performances include football games, various school events, fall and spring concerts. and a spring band trip.

Journalism/Yearbook I, II, III, IV

Journalism is a comprehensive course which enables students to creatively engage in the entire journalism process from idea conception to publication of a finished product. Students write copy and captions, take photographs, design page layouts, learn publication software and create the school's yearbook. Through this process, students hone the necessary life skills of teamwork and leadership, organization, writing, creating, and editing.

Strings I, II, III, IV

Music provides students with a wealth of fringe benefits. Strings classes offer introduction and continuation of string instrument (violin, viola, cello) playing, basic music theory and history training, solo and ensemble performance coaching. Team work, dedication, self-discipline and responsibility required for the strings class also prepares a student for a successful future in any profession he or she may choose.

Electives:

Biological Health Science Program I, II, & III

The Biomedical Health Science Program is a series of three elective courses beginning the sophomore year of high school. Students explore a variety of medical fields and occupations both in and out of the classroom. Students begin by learning basic clinical skills and HIPPA guidelines. They are introduced to a wide range of careers from local health care professions who volunteer their time to teach classes in their fields of expertise. Later students are introduced to the clinical setting and begin learning in a hands on environment. Our gracious medical hosts invite our students to participate in their daily activities including patient care and equipment operation. Finally, senior students select a specific area of interest and spend a year immersed in research and job shadowing. The program culminates with their Capstone Project Presentation that is attended by their peers, faculty, parents, and a panel of medical professionals. BioMed I, II, and III count as additional science credits, but cannot replace the required Biology, Chemistry, Physics and Senior Science Elective. BioMed III is offered the student's senior year based on teacher recommendation and must be taken in conjunction with Anatomy and Physiology.

Computer Science

Computer Science provides students with a general orientation to computer science including a basic understanding of the components of a computer and how it functions. It introduces the student to the process of program development, accepting user input/output, learning to write pseudocode as well as learning to document programs.

Driver's Education

This course is offered as an elective over the course of one semester. It is available to 10th grade students or other students who are eligible for a learner's permit. The course is divided into behind the wheel instruction and at least 30 hours of classroom training. This course must be balanced with another semester course. A fee and a free on-line textbook will be required for Driver's Education. The instructors are licensed to administer the DMV written and road test. No credit is awarded for this course and no adjustment to the GPA.

Engineering / Architecture (11th or 12th Grade)

Engineering/Architecture is a survey course intended for students to better understand the intricate fields of Engineering and Architecture. Many areas of each discipline will be explored during the year. In our modern world, engineering functions with a balance of social, environmental and economic resources. Today's engineers have knowledge of a broad range of disciplines and through partnerships with Universities and professionals in our area, our students will learn the baseline necessary to determine if engineering would be an educational experience they would like to pursue as their college career.

Health Education (11th Grade)

Health Education is a required semester long course for juniors. It provides information on basic health facts designed to create positive lifetime attitudes and the skills necessary to maintain excellent health. Topics include nutrition, exercise, family stress, mental health and substance abuse.

Math for Business and Personal Finance (12th Grade)

This is a semester course which teaches students about managing money, managing expenses, making financial decisions, making business decisions, and managing business finances. It is a semester course for 11th and 12th grades. A textbook is required. Credit 1/2

Music Appreciation 1/Music Appreciation 2

Music Appreciation is designed to educate the student on the basic fundamentals of music and influence of music on society. Topics include but are not limited to the elements of music, music in the movies, classical music, jazz music, the progression of rock music and music around the world. Students will increase their awareness of the overall impact and function of music as well as find their niche and gain respect for many different genres. Music appreciation is offered as a semester course to students in grades 9-12. Credit 1/2

Personal Communication (11th and 12th Grade)

This semester course is designed to focus on academic and professional skills. This course will teach resume writing, writing cover letters. interview skills, using technology to support the speeches and presentations. Professionals from the community will present from time to time to help coach the students. Credit 1/2

Physical Education / Strength and Speed Training I, II, III, IV

St. Luke's athletic department believes that the heartbeat of the department is in strength and speed development. We focus on core strength, flexibility, and running form. We offer traditional physical education or strength and speed development. All workouts are supervised by trained coaches and are open to all students. Workouts are designed to be age appropriate and encouraged for the entire St. Luke's community.

Robotics

This is course is designed to teach and augment the objectives set forth by the B.E.S.T. (Boosting Engineering Science and Technology) Robotics Competition. It is a dual track course with both robotics and marketing components. The Robotics curriculum is a hands-on engineering based track that includes lessons in the engineering process, logic, design, programming and construction of autonomous mobile robots using numerous CAD, spreadsheets and programming applications. The business curriculum will introduce students to graphic and web design software, spreadsheet manipulation and presentation applications. Both robotics and marketing students will work together to design and construct a playing field and tradeshow booth for the demonstration and marketing of the robot. There are no pre-requisites for this course, but teacher recommendation and participation in team meetings and at the competition outside the classroom is required. Credit 1/2

Developing Your Leadership - Expansion of Self (SAIL 1)

Self-leadership precedes team leadership. In this semester long course, students will develop a sense of who they are, what they can do, and where they are going, coupled with the ability to influence their communication, emotions, and behaviors. Self-leadership impacts all aspects of your life, your health, your career, and your relationships. Self-leaders are self-motivated to take purposeful action and, therefore, make better leaders, entrepreneurs, and team members. Credit 1/2

Understanding Sports: Social Significance and Psychology of Sports (SAIL 4)

A semester long study of the sociological and psychological aspects of physical education, sports, and recreation and the implications this knowledge has for effective leadership in sports. Prerequisite: SAIL 1. Credit 1/2

Standardized Test Preparation (11th and 12th Grade)

Standardized Test Preparation is a required semester preparatory course for high school juniors. The class is designed to develop the skills necessary to improve ACT scores. This course emphasizes test-taking techniques in addition to providing the preparation in each portion of the test in English, mathematics, reading, and science. This course is offered to juniors both semesters and fall semester for seniors. Credit 1/2

University of Alabama
Online Early College Course Options
(11th and 12th Grade)

Students between the spring of their sophomore year and the fall of their senior year, and who have a cumulative GPA of 3.0 or higher since the 9th grade, are eligible to take University of Alabama online courses at St. Luke's. The students will simultaneously receive college credit from Alabama and high school credit from St. Luke's. Since the Alabama courses are semester-long, the student must take two to receive one St. Luke's credit. The University of Alabama guarantees that these credits will transfer to any Alabama state college or university. Students must apply through the University of Alabama, attend an orientation meeting, take the Gateway online orientation course, and assume all financial expectations from the University of Alabama to be enrolled in the program. For more information, visit the website www.uaearlycollege.ua.edu.

Videography/Photography

This introductory course will teach students the basics of photography, camera functions, video editing, media analysis and filmmaking. Videography/Photography is offered as a year long course to students in grades 9-12. Credit 1