COURSE CATALOG

Classical/Charlotte Mason Tapestry

The curriculum offered at Sterling Classical School takes a student on an amazing journey where exploration and hands-on experiences create an insatiable appetite to learn and grow. While the classical rotation of academia starts in First Grade, Kindergarten students delve into the essence of Charlotte Mason with thematic units in history and science that take them directly into the incredible world God created through experiments, projects, artistic renderings and field trips. The course selections offered highlight the depth of a classical education which goes beyond classical literature and into the classical or ancient ways of educating a child based on a three-part process of subject matter, introduction and mastery. The unique ability to weave in the philosophy of Charlotte Mason, who promotes "doing is learning," produces a beautiful tapestry of education where a life-long learner is created.

Our Vision

To provide Austin with an advanced-academic-format school that integrates the use of Charlotte Mason inspired classical curriculum and approach to learning which involves the parent as an active teaching partner. Sterling Classical School's vision is to utilize the vehicle of an advanced-academic-format schedule to promote scholastic excellence, foundational character development, strategic parental support and the gift of time for families to grow closer to God and each other.

Our Mission

To sojourn with parents in the building of future generations with a Biblical, classical education which results in passionate seekers of wisdom and knowledge, through Christ, who seek to bring honor and glory to God.

Grammar School

Kindergarten

History
In this course, history and science topics are covered through thematic units. Each theme is introduced through rich "living books" and explored interactively using the Charlotte Mason philosophy. Topics covered include insects, apples, space, animals, ocean, weather, Texas, magnets, pilgrims, Native Americans, Thanksgiving, and many more. Sterling exceeds the TEKS (Texas Essential Knowledge and Skills) for kindergarten history and science.

Language Arts
Kinder language arts will focus on teaching the phonograms and their sounds. Students will learn to identify and write dictated phonograms, and then use that knowledge to decode words. Many activities that address all learning styles will be utilized to promote phonemic awareness. Students are introduced to a varied repertoire of classical literature through read-alouds.

K-4 Latin (Required)
At Sterling, every student is required to take Latin in K-4th grade. Student will recite specific Latin greetings and follow a selection of Latin commands; recite Latin numbers 1-20; recite Latin numbers (by tens) from 1-100; recite the Latin names for classroom items; recognize and recite the Latin accusative form for 20 animals; recognize and recite the Latin plural form of 20 animals; recognize and recite the Latin plural form for selected body parts; read and discuss Latin picture book stories; sing songs in Latin; recite 1st conjugation verb paradigm and personal verb endings; recite 1st declension, 2nd declension, and 2nd declension neuter noun endings; and examine maps of the ancient Mediterranean and identify Italy and Rome on the map.

Mathematics
Kindergarteners will explore mathematical concepts using manipulatives and interactive learning centers. They will be able to recognize, count, and write numbers 1-100. Students will understand concepts such as larger, smaller, before, and after in numbers 1-100. Skills such as counting by 2's, 5's, and 10's to 100, as well as identifying time to the hour and half hour will be mastered. This course will also cover the value of coins and dollar bills, addition facts through 10, one-step story problems, and beginning subtraction.

Kinder Music/P.E. (Required)
This elective was designed to provide kinder students with a well-rounded education through exposure to music and physical education. During the music elective, students will explore rhythm and movement in the context of songs and games while using rhythm sticks and musical instruments. The P.E. elective provides an opportunity for students to work together during team building activities while developing strength, stamina, and endurance.

Science
In this course, history and science topics are covered through thematic units. Each theme is introduced through rich "living books" and explored interactively using the Charlotte Mason philosophy. Topics covered include insects, apples, space, animals, ocean, weather, Texas, magnets, pilgrims, Native Americans, Thanksgiving, and many more. Sterling exceeds the TEKS (Texas Essential Knowledge and Skills) for kindergarten history and science.

First Grade

History
First grade history begins with creation and explores the ancient civilizations including Israel, Egypt, Greece, and Rome. These time periods are brought to life through interactive projects, art, and amazing literature.

Language Arts
First grade language arts continue to build on the student's knowledge of phonograms by introducing consonant and vowel teams. These skills are used to develop increased reading fluency and spelling skills. In grammar, students will learn parts of speech as well as increase their knowledge of the conventions of writing. First graders enjoy many of the classic readers including *Frog and Toad, Little Bear, and Henry and Mudge*.

K-4 Latin (Required)
At Sterling, every student is required to take Latin in K-4th grade. Students will recite specific Latin greetings and follow a selection of Latin commands; recite Latin numbers 1-20; recite Latin numbers (by tens) from 1-100; recite the Latin names for classroom items; recognize and recite the Latin accusative form for 20 animals; recognize and recite the Latin plural form of 20 animals; recognize and recite the Latin plural form for selected body parts; read and discuss Latin picture book stories; sing songs in Latin; recite 1st conjugation verb paradigm and personal verb endings; recite 1st declension, 2nd declension, and 2nd declension neuter noun endings; and examine maps of the ancient Mediterranean and identify Italy and Rome on the map.

Mathematics
In this course, students learn number recognition, counting and writing 1-1,000; counting and writing by tens, fives, twos, and threes; number sequences; ordinal numbers; addition facts through 13 and three-digit addition with carrying; subtraction facts through 13 and two-digit subtraction; counting and combining coins; telling time to the nearest five minutes; recognizing odd and even numbers; English and metric measures; place value in ones, tens, and hundreds; unit fractions; reading a thermometer; concept of multiplication; and reading pictographs and bar graphs.

Science
In this course, the focus is on life science. Students explore the human body and the unique way God created us, animal classification and habitats, plants, trees, and root systems. "Living Books," hands-on activities, and arts and crafts bring this subject to life.

Second Grade

History
Second-grade history begins with the fall of the Roman Empire and explores the Medieval and Renaissance periods in history. Students become enchanted with this era through historical literature, hands-on experiences, such as a Medieval Feast, and art projects.

Language Arts
Second-grade language arts expand upon their knowledge of phonograms by learning prefixes and suffixes. Students add to the spelling rules they have previously learned and apply these new skills in their spelling, reading, and writing. They learn to write descriptive sentences and transition into writing paragraphs, as they explore characters, plot, and setting within the context of quality literature.

K-4 Latin (Required)
At Sterling, every student is required to take Latin in K-4th grade. Student will recite specific Latin greetings and follow a selection of Latin commands; recite Latin numbers 1-20; recite Latin numbers (by tens) from 1-100; recite the Latin names for classroom items; recognize and recite the Latin accusative form for 20 animals; recognize and recite the Latin plural form of 20 animals; recognize and recite the Latin plural form for selected body parts; read and discuss Latin picture book stories; sing songs in Latin; recite 1st conjugation verb paradigm and personal verb endings; recite 1st declension, 2nd declension, and 2nd declension neuter noun endings; and examine maps of the ancient Mediterranean and identify Italy and Rome on the map.

Mathematics
This course teaches number recognition, counting, and writing 1-10,000; counting and writing to hundred thousands; ordinal numbers; addition facts through 18, column addition, four-digit addition with carrying; subtraction facts through 18, four-digit subtraction with borrowing; multiplication facts 0- 5; division facts 1-5; estimation; rounding; numbers before and after by ones, twos, threes, fours, fives, and tens; counting and combining coins and bills; telling time to the nearest minute; English and metric measures; drawing and measuring lines to one-half inch; place value to thousands; unit fractions; making change; reading a thermometer; and reading pictographs, bar graphs, and line graphs.

Science
The focus of second-grade science is on Earth Science. The course of study during this year will include planets, constellations, weather, earthquakes, volcanoes, tornadoes, the water cycle, erosion, fossils, and minerals. Students explore these areas of science through hands-on experiments, projects, and "living books."

Third Grade

History
This course continues on its journey through time by learning about the colonial period, the struggle for independence, westward expansion, and other historical world events that encompass this time frame through 1850. Third-grade students also study Texas history, including major battles, historical figures, geography, and contributions.

Language Arts
This course continues to refine spelling skills through phonics-based instruction and memorization of spelling rules. Writing skills progress, as students write in expository, persuasive, narrative, and descriptive styles during the stages of the writing process. They learn to make inferences and draw conclusions while reading their novels and participating in class discussions and projects. Previous grammar skills are reviewed and more complex skills are introduced and practiced through narration and copy work.

K-4 Latin (Required)
Sterling students are required to take Latin in K-4th grade. Students will recite specific Latin greetings and follow a selection of Latin commands, Latin numbers 1-20, Latin numbers (by tens) from 1-100, Latin names for classroom items. Students will also recognize and recite the Latin accusative form for 20 animals; recognize and recite the Latin plural form of 20 animals; recognize and recite the Latin plural form for selected body parts; read and discuss Latin picture book stories; sing songs in Latin; recite 1st conjugation verb paradigm and personal verb endings; recite 1st declension, 2nd declension, and 2nd declension neuter noun endings; and examine maps of the ancient Mediterranean and identify Italy and Rome on the map.

Mathematics
Third-grade math covers telling time; recognition of the place value of numbers; addition facts and checking addition problems with carrying; subtraction facts and checking subtraction facts with borrowing; division tables 1-12; using a ruler; solving story problems with up to four steps; recognizing and solving number sentences; converting measures and solving measurement equations; recognizing and working with greater than and less than signs; counting money and solving money problems using the decimal point correctly; solving problems with parentheses; fraction terminology; averaging numbers; reading a thermometer; recognizing geometric shapes; and finding the unknown number in an equation.

Science
In third grade, students study elementary chemistry by experimenting with the way atoms and molecules react with one another to form different substances. Students learn the basic terms, are introduced to the periodic table, and learn to record observations and results.

Fourth Grade

History
In fourth grade history, students explore the Civil War, Reconstruction, the World Wars, and the advancements we have made in space travel and other areas of technology. This time period is brought to life through literature from this time period, reenactments, timelines, and art activities.

Language Arts
Fourth-grade language arts covers spelling through continued reinforcement of phonograms and spelling rules, grammar, writing, and literature. Students work to refine their writing style and expand upon previous composition skills that were introduced. Literature is used as a springboard for analysis and discussion of literary techniques.

K-4 Latin (Required)
At Sterling, every student is required to take Latin in K-4th grade. Student will recite specific Latin greetings and follow a selection of Latin commands; recite Latin numbers 1-20; recite Latin numbers (by tens) from 1-100; recite the Latin names for classroom items; recognize and recite the Latin accusative form for 20 animals; recognize and recite the Latin plural form of 20 animals; recognize and recite the Latin plural form for selected body parts; read and discuss Latin picture book stories; sing songs in Latin; recite 1st conjugation verb paradigm and personal verb endings; recite 1st declension, 2nd declension, and 2nd declension neuter noun endings; and examine maps of the ancient Mediterranean and identify Italy and Rome on the map.

Mathematics
This course teaches place value of whole numbers and decimals; mastery of fundamental operations; estimating answers; English and metric measures; converting measures within the same system and solving measurement equations; roman numerals; addition, subtraction, and multiplication involving fractions; averaging; factoring; divisibility measures; introduction to decimals; making change; reading a thermometer; solving equations using addition and subtraction axioms; graphs and scale drawing; basic geometric shapes; perimeter and area; using an English and metric ruler; and problems with time lapse.

Science
Science 4 is an introduction to physics, which begins with a classroom discussion based on the book, *Archimedes and the Door of Science*. After laying a solid foundation on the principals of physics, students explore magnetism, gravity, light, sound, motion, and various form of energy through hands-on labs and experiments.

Grammar School Electives

Art 1/2
Drawing - Students will learn basic drawing and sketching techniques and how to use lines and patterns in drawing to create different projects.
Painting - Students will learn about the styles of different artists and create painting in the style of Picasso, Van Gogh, Impressionists, among others.
Exploring Art Mediums - This session covers a sampling of many things, including pastels, watercolor, tempers, charcoal, and collage.
Designing with Paper - Students will experiment with paper to create masks, origami, recycled art, collage, paper mache, and paper sculpture.
Each session will change with each grading period; therefore, there will be two sessions in the fall and two in the spring.

Art 3/4
Painting - Students will learn technique and principals of mixing colors to create different projects along with experimenting with different paint mediums.
3D Design/Sculpture - Students will experiment with different types of 3D materials, such as clay, paper design, straw sculptures, mobiles, paper masks, paper mache, among others.
Drawing - Students will learn basic drawing and sketching techniques and how to use lines and patterns in drawing to create projects.
Exploring Art Mediums - This session covers a sampling of various things, including pastels, watercolor, tempers, charcoal, and collage.

Campus Day
Campus days are electives designed to provide additional days of guidance that some students may need to encourage success with the demands of Sterling's curriculum. They will be led by a certified teacher who will manage each individual student's academic track. Campus days are offered on Monday and Wednesday.

Garden Club

"We are all meant to be naturalists, each in his own degree, and it is inexcusable to live in a world so full of the marvels of plant and animal life and to care for none of these things."
Charlotte Mason.

This elective will expose students to the hands-on classroom of gardening. They will discover various plants and vegetation, understand about seasonal planting, plan themed gardens, plant and harvest. They will have opportunities to interact with their harvest through simple cooking activities and crafts. They will also explore the value of nutrition and provision as well as ways to share the benefits of the garden with their own families and through service outreach of the harvest into the community.

Kindergarten Art

This elective is designed to introduce students to art using different techniques. Students receive instruction and practice in drawing and painting. They will discover the basic principles of art, including types of lines, basic shapes, color, texture, foreground/background, symmetry, and linear movement.

LEGO® Machines

This class will build and explore complex machines and mechanisms using LEGO® bricks and accessories which include gears, axles, electric motors, sensors and remote controls. Your budding engineer will investigate machine designs and study gearing mechanisms in an engaging way that makes STEM (Science, Technology, Engineering, and Mechanics) concepts fun.

LEGO® Story Lab

This is where literature, storytelling and theater all come together in a creative hands-on outlet. LEGO® bricks will be the vehicle for re-creating story scenes, building key sets, developing characters and displaying the stories in 3-D. Students will have the opportunity to not only interact with established stories and literature but to create their own stories and worlds for the characters they develop. This is a perfect class for those students who enjoy great stories, creating, building, and have a boundless imagination!

Music/Recorder

This class will introduce students to classical composers through stories and listening to music. Students will also learn music theory, sing songs, and learn to play the recorder.

Pep Squad

This elective will meet on Mondays and will be offered to students in second- through fourth-grade. It will combine pep squad with dance and students will perform at the games. In addition to the cost of the elective, there will be a required fee for equipment and uniforms.

Reading Skills (Kinder)

The focus of this class will be on mastering phonograms and utilizing that knowledge to read and decode words, along with developing many of the phonological awareness skills needed to be a successful reader.

STEM Lab
This elective allows students to use their imaginations and creativity to build, to invent, and to construct, all while applying the design process and their critical-thinking skills. They may be given a challenge to solve with creating a contraption from available materials in the lab to solve the challenge and at other times, they will create an original design that is student driven. They will learn about the scientific process as sometimes creations fail and adjustments need to be made.

Strength & Conditioning
This elective is for third- and fourth-grade students structured the same as the first and second Physical Education elective with the games and sports becoming more challenging and with the added emphasis on strength, endurance, and stamina.

SCHOOL OF LOGIC

HISTORY

History 5
Students study ancient history, including the major events and cultural contributions and relevance of the ancient Israelites, Egyptians, Greeks, Romans, and other Middle Eastern nations. During the fall semester, students focus on Old Testament histories, beginning with creation, and in the spring, students concentrate on ancient Greece and Rome. Teachers use hands-on, interactive teaching methods to emphasize certain time periods, historical figures and events that were influential.

History 6
Students study Medieval and Early Renaissance periods. They learn about church history and key protestant reformers and leaders of the Renaissance. Students examine this period closely by developing timelines, creating art projects, and surveying art and pictures from this era. History 6 will look at what was going on all over the world in the order that it happened. So, while the Renaissance and Reformation were taking shape in Europe, students will look at the rise of wealthy empires in West Africa, the Mogul dynasty of India, and the peaceful lives of the Aboriginals of Australia. The class will visit Ivan the Terrible in Russia and the Tokugawa family in Japan. Students will also read about the master painters and sculptors who made the Renaissance famous as well as the scientists and philosophers who dissected this exciting time in history.

History 7
Students study American History and politics from 1492 to 1865. From Leif Ericson to early 19th-century culture, this engaging overview brings America's history to life through interactive discussions, projects, dramatizations, and hands-on activities. Students explore historic events, the atmosphere surrounding them, and their impact on the country's future.

History 8
Students study American History and politics from 1865 to the present. Students will examine important events in American history, including the atmosphere in which they occurred and their impact on the future of America. They will learn about the latter half of American history with emphasis on the Civil War and Reconstruction, the Gilded Age, World Wars I & II, The Great Depression, The Cold War and more.

LANGUAGE ARTS/ENGLISH

Language Arts 5
This course uses instruction in grammar, spelling, and classical roots vocabulary to aide in the construction of composition. Using an incremental approach to writing, students develop a solid foundation in writing as they compose descriptive, narrative, expository and creative pieces. Students learn the art of literary analysis through numerous selections including *Roll of Thunder, Hear My Cry, Treasure Island, and Twelfth Night.*

Language Arts 6
This course builds upon the skills learned in Language Arts 5, while continuing to expand and develop skills in literary response and analysis, and applying that knowledge in written composition. Students will read numerous novels including *The Boy in the Striped Pajamas, The Giver, and Esperanza Rising,* and various selections from Shakespeare and other noteworthy poets. Students will apply their knowledge of grammar, vocabulary, and punctuation as they refine their composition skills and write in all genres, including completing a research paper.

English 7
Students will study classical roots vocabulary in order to enhance their vocabulary as well as provide a foundation for studying the verbal sections of college admission tests. They will also have the opportunity to use new grammar concepts and reading vocabulary in their writing, and to correct and revise their compositions using the MLA Handbook, dictionary, and thesaurus while writing narrative, expository, research, creative, and persuasive pieces. The literature selections for English 7 will include *Midsummer Night's Dream, Red Badge of Courage, God's Smuggler, The Skin I am In, and The Book Thief,* and selections of poetry and short stories to add to their repertoire of literature.

English 8
Students will develop skills in writing the first draft of an essay in a limited time period and in taking notes over literature to use as a source of writing. Students will develop and refine their skills in evaluating themes, characters, conflicts, and structures of literature. Studies in classical vocabulary roots equip students for college admission tests. English 8 students enhance their writing skills by composing a variety of research, narrative, persuasive, and literary analysis essays. Literature selections include *To Kill a Mockingbird, As You Like It, Night, and Fahrenheit 451,* and selections of poetry.

LOGIC

Logic (Informal) (Required for 8th Grade)
Informal logic is an attempt to develop a logic that can assess and analyze the arguments that occur in natural language ("everyday or ordinary language") discourse. Discussions in the field may address instances of scientific, legal, and other technical forms of reasoning, but the overriding aim has been a comprehensive account of argument that can explain and evaluate the arguments found in discussion, debate and disagreement as they manifest themselves in daily life — in social and political commentary; in news reports and editorials in the mass media; in advertising and corporate and governmental communications; and in personal exchange. The mastery of informal logic (the logical fallacies) is a foundational subject by which other subjects are evaluated, assessed, and learned. *Fallacy* comes from the Latin *fallacia*, for deceit. It technically means a flaw in an argument that makes it deceptive or misleading.

MATH

Math 5

Students will learn the place value of whole numbers and decimals; mastery of fundamental operations; problem-solving strategies; roman numerals; measuring to the quarter inch; calculating time; making change; rounding off whole numbers, money, decimals, and mixed numbers; converting measures within the same system and solving measurement equations; addition, subtraction, multiplication, and division involving fractions; finding parts of a whole; factoring; divisibility rules; probability; addition, subtraction, multiplication, and division involving decimals; introduction to percent; reading a thermometer; negative temperature; solving algebraic expressions; reading graphs and scale drawings; graphing ordered pairs; perimeter and area; squares and square roots, and estimation.

Math 6

Students will learn place value of whole numbers and decimals; maintaining skills in fundamental operations; story problems; roman numerals; rounding off; English and metric measures; converting measures within the same system and solving measurement equations; adding, subtracting, and multiplying measures; prime factoring; fundamental operations involving fractions and decimals; estimation; ratios and proportion; percent; probability; graphs and scale drawings; introduction to statistics; basic geometric shapes; perimeter, area, and circumference; bisecting angles; reading thermometers; converting Celsius to Fahrenheit and Fahrenheit to Celsius; equation solving; introduction to basic algebra; latitude, longitude, and time zones; and banking, finding interest, and installment buying.

Pre-Algebra /Grade 7

In this course, students will learn the principles of mathematics; English and metric measures; basic algebraic concepts; signed numbers; powers and roots; like and unlike terms; multiplying and dividing monomials; problem-solving strategies; word problems solved algebraically; reading and constructing graphs; graphical scale drawings; statistics and probability; business math; earning income; banking; stocks and bonds; insurance; basic plane and solid geometric concepts; properties of geometric figures; constructing geometric figures; perimeter, area, surface area, and volume; Pythagorean rule; sine, cosine, and tangent; and scientific notation.

Algebra /Grade 8

In Algebra I, students will learn about linear equations in one variable; algebraic numbers; graphs, formulas, positive and negative numbers; fundamental operations; special products and factoring; fractions; ratio, proportion, and variation; linear systems of equations; powers and roots; exponents and radicals; quadratic equations; and numerical trigonometry.

SCIENCE

Science 5

Fifth-grade students will explore the dynamics of flight and animal classification, understanding why the design they see in these incredible creatures points them to our creator God. After becoming amateur ornithologists, they will study bats and explore some common misconceptions about these creatures. Students will then study entomology, the study of insects and will learn to scientifically classify insects by their wings and other characteristics. Students will design many experiments with insects, and learn how to catch and attract insects for scientific study.

Science 6
Sixth grade science revisits earth science and astronomy by studying the nature of astronomy and the major structures of our solar system. Starting with the sun and working towards Pluto, the student will learn details about all of the planets in the solar system. Along the way, the student will also learn about earth's moon, the asteroid belt, and the Kuiper belt. After that, the student will move outside our solar system and learn about the stars and galaxies that make up God's incredible universe. Finally, the student will learn about space travel and what it takes to be an astronaut! During the second semester, this course explores the creatures of the ocean as well as the topography and climate of the ocean floor.

Science 7
This course is students' first systematic introduction to the sciences. The course covers topics like the history of science, scientific method, designing experiments, simple machines, archaeology, geology, paleontology, biology, and human anatomy and physiology. Science 7 uses many hands-on experiments and projects to solidify the concepts learned.

Science 8
This course is designed to be the last science course the student takes before high school biology. The course discusses such topics as the atmosphere, the hydrosphere, weather, the structure of the earth, environmentalism, and the physics of motion, Newton's Laws, gravity, and astrophysics. There are many hands-on experiments used to explore these topics.

School of Logic Electives

Art 1
This course is a primer for Art 2. Students will explore foundation concepts of Elements and Principles of Art, experiment with different mediums, learn about several art styles, techniques and lives of various famous artists, and try different 2-D and 3-D crafts. While working on the various projects, (when it's appropriate to do so) students are really encouraged to use their creativity and think outside of the box.

Art 2
Students should have completed one full year of Art I as a prerequisite. In this course students will work on advancing their skills and deepening their knowledge of Elements and Principles of Art. There will be more time spent on specific projects to advance various skills. Students will be encouraged to work on individual projects and a couple of collaborative projects. Classes will work on preparing and entering local and/or national Art contests (TBD). The class will also explore more art styles and artists, and various new, or more advanced techniques and skills.

Campus Day (4-day Program)
The Campus Day elective is designed to provide that additional day of guidance that some students may need to encourage success with the demands of Sterling's curriculum. It will be led by a certified teacher who will manage each individual student's academic track. This will include assisting with online assignments, developing student goals, monitoring performance and working individually with students to develop effective organization and study strategies that will create a platform for their approach to academics.

Cheer/Dance
This elective will meet on Mondays and will be offered to 5th- through 8th-grade students. It will combine pep squad with dance and students will perform at the games. In addition to the cost of the elective there will be a required equipment and uniforms fee.

Computer Fundamentals
In the first semester, the class will cover basic computer skills. This includes using a word processor, spreadsheet and presentation software. We will also go over effectively using the computer for note taking and managing a to-do list. The spreadsheet portion shall include creating a home budget. Students will be exposed to how email works, cloud storage, file systems and the parts of their computer. There will be age-appropriate discussions around important moral and ethical issues such as malware, computer hacking, spying and online predators. The second semester will be an introduction to programming concepts using the Python programming language. There will also be a focus on improving typing skills. This class is a solid prerequisite for the Computer Science class.

Culinary Arts
Join a professional Chef and experience a professional kitchen while students learn fundamentals like using kitchen tools and honing cooking skills and techniques. Students will be required, as a prerequisite, to complete the online Texas Food Handler course and receive the certificate allowing for a safe and educated participation in a commercial kitchen. This course will take students through kitchen basics leading up to the exploration of the Mother Sauces. In the 19th century, Marie-Antoine Carême anointed Béchamel, Velouté, Espagnole, and tomato sauce as the building blocks for all other sauces. Later on, Hollandaise got added to the family. Since then, many people consider others sauces -- sweet and savory from all around the world -- as unofficial extended relatives of these five sauces. Though some will argue for the importance of chimichurri and chocolate sauce, their knowledge of the five French mother sauces will prove essential. They may seem intimidating, but mother sauces will nurture your kitchen confidence. These five sauces, all equally important to your cooking repertoire, serve as the starting point for a slew of other classics.

Entrepreneurship
This program empowers participants with academic, entrepreneurial and 21st century skills that are universal for the success of college and career readiness. It engages students with hand-on, project-based exploration, focusing on a student's passion and interests for the development and implementation of a business idea. It takes students through the five phases of Think It, Plan It, Start It, Manage It, and Grow It. Students could be running their own business at the culmination of this program.

Extreme Science
In this elective, students will have the opportunity to go beyond the science textbook and participate in a full array of fun, fascinating hands-on experiments. The class will provide the platform to answer questions like, "What would happen if . . ." The experiments will be developmentally appropriate and challenging while also allowing the students to drive the direction some based on interests and curiosity.

Inventions and Innovations (I and II)
Trace the path from idea to prototype, as students learn about the history of inventing. Students will develop their own ideas for inventions and innovations and showcase their work at the Sterling Invention Convention. Students will study famous historical inventors and ideas, as well as the patenting process. The Convention will occur at the end of each semester so students who take both semesters will cover different elements and have the opportunity to develop more than one invention or further develop the initial one designed.

Latin 1
Students will journey to a time almost 2000 years ago when the Roman Empire controlled almost all of Europe. Set in Rome in AD 79, students become acquainted with the Latin language and gain an appreciation of Roman influences on our civilization. The purpose of this course is to teach comprehension of the Latin language for reading purposes and to develop an understanding of the history and culture of Roman civilization.

Physical Education (PE)
In this class, students will be exposed to lifelong fitness activities that will benefit their health and well-being. Throughout the year, students will have the opportunity to learn elements of team sports, recreational activities, cardiovascular endurance training, strength training, strength development and flexibility exercises. The class will be developmentally appropriate per age group to ensure safe, physical engagement.

Robotics/Aviation
During the first semester, students will journey through the many STEM components that underpin critical thinking. Teaching robotics either through physical robots or cyber robotics takes education to a new level; it gives the students the hands-on learning experience; and it compliments all the subjects of STEM. Students will engage in thinking, building and playing games to support a well-rounded approach to educational technology and learning. During the second semester, students will explore the world of flight through utilizing engineering elements to build a whole new level of paper airplanes, kites, rockets, etc. Students will study and integrate the history of aviation as part of the class. Games and experiments will put their flying machines to the test and hopefully inspire some future aviation careers.

Sewing/Crafting
During Semester 1, students will delve into the fundamentals of sewing both by hand stitching and with the sewing machine. Students will work with different fabrics and mediums to complete projects.
During Semester 2, students will be able to explore the breadth of crafting that will work towards being Pinterest worthy. Students will be using different materials and mediums to create and make products that support and showcase the value and intricacies of being a maker.

Spanish 1
Students develop fluency and confidence in Spanish through a variety of listening, speaking, reading, and writing activities. New vocabulary is introduced along with grammar concepts such as infinitives, negative statements, adjectives, definite/indefinite articles, word order, and subject pronouns.

Study Hall (TBD - Not on Course Registration but may be added to core day depending on Master Schedule.)
This elective will enable students to complete home assignments from other courses and remain on campus during an elective block. The study hall is a "library" environment where students are expected to remain quiet throughout the period independently working on school assignments or reading.

Theater
As a course for beginning and trained actors and speakers, Theater is designed to introduce and/or re-familiarize students with the practice of theatrical performance and public speaking. There will be in-class instruction, but the emphasis will be placed on acting and speaking skills and techniques. Students will also learn set and prop design and construction, costuming, technical aspects and history. Students will audition and perform a theatrical production in the spring.

Tutorial Lab
Inside this elective option, students will have access to a certified teacher who will be available to assist with academic questions that may arise from assigned work from across the board of classes. This instructor will guide students and can reinforce the concepts taught by other instructors on campus. This is not a private tutoring session but can serve to aide those students who may require more guidance. Some labs will also be geared to assistance in writing and can be a great asset to those students who struggle with writing concepts and production. This class will be more interactive among students and the instructor and would not be conducive to a student that required silence to complete home assignments.

Yearbook
This elective is a more advance form of Journalism. Students will be compiling pictures and events throughout the school year to culminate in a final product that will be available to the student body for purchase. Students will explore topics such as photography, photo-journalism, and publishing. When this elective is taken through the club format, students will meet once a month with the instructor to determine direction, format and deadlines for article and photograph submission. Instructor will monitor and provide accountability through email correspondence between meetings.

SCHOOL OF RHETORIC

APOLOGETICS

***Apologetics (*Spring Semester)**
This is the final course that is covered in the Communicators for Christ program. Defending the faith is a matter of both content and presentation. Therefore, apologists must know what they believe and how to talk about it. The purpose of this class is to give students an introductory understanding of the basic issues surrounding Christian apologetics and to provide opportunities for practicing apologetic communication. Students will access a primary text as well as several supplementary resources.

ENGLISH

English I – Honors
English will weave together with History as a reflection of humanities. The curriculum will integrate history, literature, philosophy, and theology. It will emphasize Greek & Roman history, philosophy, and early Christian theology. This class is designed to be discussion based and will require students to draw connections from various literatures including scripture as they are provoked to answer such questions that require moral depth and Christian worldview. Students will begin the process of defending a point of view both orally and in writing by using ideas from discussion and books being read as a base to their defense.

English II – Honors
English will weave together with History as a reflection of humanities. The curriculum will integrate history, literature, philosophy, and theology. It will emphasize medieval history, philosophy and cover the early church fathers through Reformation. This class is designed to be discussion based and will require students to draw connections from various literatures, including scripture, as they are provoked to answer such questions that require moral depth and Christian worldview. Students will begin the process of defending a point of view both orally and in writing by using ideas from discussion and books being read as a base to their defense. Students will develop extensive writing portfolios.

English III – Honors
The journey continues on the creation of the tapestry with the merging of English and historical reflection. The curriculum will integrate history, literature, philosophy, and theology. It will emphasize works centered on post-Reformation to the present. This class is designed to be discussion based and will require students to draw connections from various literatures including scripture as they are provoked to answer such questions that require moral depth and Christian worldview. Students will sharpen the process of defending a point of view both orally and in writing by using ideas from discussion and books being read as a base to their defense. Students will develop extensive writing portfolios as well as the Senior Thesis in preparation for their defending of such theses in the fall of the senior year.

English IV – Honors
Students will further explore Modern American Literature through a combined perspective of the historical timeline and impact on said literature as well as society. The class will find its' roots in the established Socratic method with the emphasis on discussion, exploration, research and presentation brought forth from various literature including scripture. The Senior Thesis will be submitted and presented in the fall as a culmination from the preparation completed in the junior year.

HISTORY

History I – Honors
History will weave together with English as a reflection of humanities. The curriculum will integrate history, literature, philosophy, and theology. It will emphasize Greek & Roman history, philosophy, and early Christian theology. This class is designed to be discussion based and will require students to draw connections from various literatures, including scripture, as they are provoked to answer such questions that require moral depth and Christian worldview. Students will begin the process of defending a point of view both orally and in writing.

History II - Honors
Students will continue to journey through the story of history through the reflection of humanities. The curriculum will continue to weave together the historical foundation, literature, philosophy, theology and art appreciation. It will emphasize medieval history and philosophy and cover the early church fathers through Reformation. This class is designed to be discussion based and will require students to draw connections from various literatures including scripture as they are provoked to answer such questions that require moral depth and Christian worldview. Students will begin the process of defending a point of view both orally and in writing. This class will be extended to give students ample time for discussion and conferencing.

History III – Honors
Students will continue to journey through the story of history through the reflection of humanities. The curriculum will continue to weave together the historical foundation, literature, philosophy, theology and art appreciation. It will emphasize the post-Reformation to the present. This class is designed to be discussion based and will require students to draw connections from various literatures including scripture as they are provoked to answer such questions that require moral depth and Christian worldview. Students will begin the process of defending a point of view both orally and in writing.

History IV – Honors
Students will culminate their journey through history with a further and extensive review of Modern American studies. The curriculum will continue to weave together the historical foundation, literature, philosophy, theology and art appreciation. This class is designed to be discussion based and will require students to draw connections from various literatures including scripture as they are provoked to answer such questions that require moral depth and Christian worldview. Students will begin the process of defending a point of view both orally and in writing.

Government
The emphasis on this class will center round students understanding world issues, identifying the rights and obligations of citizens and to become active participants in the democratic process. This is a one semester class.

Economics
Economics and the Free Enterprise System focus on the impact of economics on the lives of people. Economics emphasizes the basic principles of production, consumption, and distribution of goods and services in the United States and a comparison with those of other countries.

MATH

Algebra II
In Algebra II, students will learn inequalities and proofs, linear equations and functions, rational expressions, irrational and complex numbers, quadratic equations and functions, exponential and logarithmic functions, sequences and series, triangle trigonometry, trigonometric graphs and identities, trigonometric applications, statistics and probability, matrices and determinants.

Calculus - Honors
Calculus will develop the student's understanding of the concepts of calculus including functions, graphs, limits, derivatives, integrals, and their applications as well as polynomial approximations and series.

Geometry
Geometry students will learn the span of geometrical elements including points, lines, planes, angles, deductive reasoning, parallel lines and planes, congruent triangles, quadrilaterals, inequalities in geometry, similar polygons, right triangles, circles, constructions and loci, areas of plane figures, areas and volumes of solids, coordinate geometry and transformations.

Pre-Calculus
In this course, students will expand their knowledge of quadratic, exponential and logarithmic functions to include power, polynomial, rational, and trigonometric functions**.** Students will investigate and explore mathematical ideas, develop multiple strategies for analyzing complex situations and use graphing calculators to build understanding and solve problems. Real-life data and applications are provided throughout this course as a means to add further opportunities for generating and analyzing mathematical models.

SCIENCE

Biology – Honors
This college-preparatory curriculum provides high school students an in-depth exploration with detailed introduction to the methods and concepts of biology. Heavily emphasizing the vocabulary of biology, it provides the student with a strong background in the scientific method, the five-kingdom classification scheme, microscopy, biochemistry, cellular biology, molecular and Mendelian genetics, evolution, dissection, and ecosystems. It also provides a complete survey of the five kingdoms in Creation as well as covering the anatomy and physiology of the human body's 11 organ systems in detail.

Chemistry – Honors
This course is designed to give the student a rigorous foundation in Chemistry. The course covers significant figures, units, classification, the mole concept, stoichiometry, thermochemistry, thermodynamics, kinetics, acids and bases, redox reactions, solutions, atomic structure, Lewis structure, molecular geometry, the gas laws, and equilibrium.

Physics – Honors
Students will explore the parameters of physics through the study of key topics which will include the nature of scientific knowledge, motion and the Medieval Model of the Heavens, Newton's laws of Motion, variation and proportion, energy, heat, temperature, waves, sounds, light, electricity, DC circuits, fields and magnetism, substances, atomic models, the Bohr and Quantum Model of the Atom, and Atomic bonding. Students will participate in lab work, hands- on activities, and in-depth exploration.

Advanced Environmental Science – Honors
Environmental Science is a science based, relevant, interdisciplinary course that combines ideas from the natural and social sciences. Students will study the interconnections between the environmental and societal systems. The content areas addressed are: interdependence of earth's systems, human population dynamics, renewable/nonrenewable resources (distribution, ownership, use, degradation), environmental/society. This course will prepare students to take the Advanced Placement exam.

SCHOOL OF RHETORIC ELECTIVES

Computer Fundamentals
In the first semester, the class will cover basic computer skills. This includes using a word processor, spreadsheet and presentation software. We will also go over effectively using the computer for note taking and managing a to-do list. The spreadsheet portion shall include creating a home budget. Students will be exposed to how email works, cloud storage, file systems and the parts of their computer. There will be age-appropriate discussions around important moral and ethical issues such as malware, computer hacking, spying and online predators. The second semester will be an introduction to programming concepts using the Python programming language. There will also be a focus on improving typing skills. This class is a solid prerequisite for the Computer Science class.

Culinary Arts
Join a professional chef and experience a professional kitchen while students learn fundamentals like using kitchen tools and honing cooking skills and techniques. Students will be required, as a prerequisite, to complete the online Texas Food Handler course and receive the certificate allowing for a safe and educated participation in a commercial kitchen. This course will take students through kitchen basics leading up to the exploration of the Mother Sauces. In the 19th century, Marie-Antoine Carême anointed Béchamel, Velouté, Espagnole, and tomato sauce as the building blocks for all other sauces. Later on, Hollandaise got added to the family. Since then, many people consider others sauces -- sweet and savory from all around the world -- as unofficial extended relatives of these five sauces. Though some will argue for the importance of chimichurri and chocolate sauce, their knowledge of the five French mother sauces will prove essential. They may seem intimidating, but mother sauces will nurture your kitchen confidence. These five sauces, all equally important to your cooking repertoire, serve as the starting point for a slew of other classics.

Entrepreneurship
This program empowers participants with academic, entrepreneurial and 21st century skills that are universal for the success of college and career readiness. It engages students with hand-on, project-based exploration, focusing on a student's passion and interests for the development and implementation of a business idea. It takes students through the five phases of Think It, Plan It, Start It, Manage It, and Grow It. Students could be running their own business at the culmination of this program.

Forensic Science
This course focuses on the skills and concepts behind crime scene investigation and forensic science. Whether a student desires to be a crime investigator, forensic pathologist, or some other medical scientist, this course will help them hone their investigative skills and review a wide range of science concepts. They will engage in labs and case studies as part of this course. Topic examples: CSI & Lab Techniques, Blood & Blood Spatter, DNA evidence, Fingerprints, Trace evidence (Hair, fibers, pollen, soil, etc.), Toxicology, Forensic anthropology (skeletal evidence), Forensic entomology (insect life styles, establishing time lines, etc.), and Ballistics.

Future Healthcare Professional
Students, who desire to investigate a potential career as a Medical Professional, will be provided an advanced, hands-on and interactive, pre-collegiate education. Classes will include higher level thought and analysis to challenge the brains of students in fun, informative ways.

Koine Greek
This class is designed to introduce students to the essential grammar, morphology, and vocabulary of the Greek of the New Testament. This introductory class will provide the most important tools for interpreting the New Testament, including New Testament vocabulary, grammar, syntax, and exegesis. At the end of this course, the student will understand enough Greek to read and analyze simple passages from the New Testament.

Latin 2
Students continue the journey into the second year of a four year, well-integrated unit study of the Latin language. Students will progress in further understanding of the Latin language for reading purposes, understanding and comprehension of the history and culture of Roman civilization and advancement in overall vocabulary.

Latin 3
Students continue the stimulating, historically accurate story line of Units 1 and 2. Students will progress further in their understanding of the Latin language for reading purposes, understanding and comprehension of the history and culture of Roman civilization and advancement in overall vocabulary.

Math Lab
This class will allow students to sit under a math instructor for a period where students can explore math concepts outside of their standard math class for further challenge or engagement. In addition, it provides the students time to get more instruction and support with their current math program. The class will be combined with different level math students which will allow for instructor and peer mentoring.

Multi-Media/Journalism
This fine arts class is for students that want to excel and learn creative platforms of communication. Using three different media platforms: podcasting, creative journalism, and publishing, students will develop their communication, computer software integration, compositional arrangement, and interviewing skills to develop, design, and distribute the Sterling Podcast, Newspaper, and Arts Magazine. This class will prepare students in modern rhetorical techniques of creative expression for college. It will also teach college level editorial and design methods.

Musical Theater Training
Students will work with a trained instructor to explore and work through elements of dance, voice and acting. As those interested in the world of musicals and musical theater, it is important to improve the craft of becoming a stronger triple threat. Students in the class will put on a small recital of learned pieces within the class.

Psychology
This course focuses on the study of human behavior. As an introduction to the field of psychology, this course includes consideration of psychological principles, terminology, major theories, careers, methods of experimentation, and practical applications.

SAT Math Prep
Students will have the opportunity to study with an experienced instructor in the intricacies of the math questions covered in the SAT. They will be taught the different genre of math presented in the SAT, work through practice problems, and discuss study techniques and ideas for this portion of the exam. This will be beneficial for students even preparing for the PSAT.

Sign Language (ASL) 1
American Sign Language is a rich and complex language and has recently been declared as an official language and recognized by 48 states as a foreign language. This class is designed to prepare students to successfully interact with American Sign Language (ASL). Lessons are structured around language needed for common-life situations, and examples are presented in the form of dialogues coupled with grammar and vocabulary instruction. Information taught in class will also include the culture of deaf people in the United States. This is a high school level class and will be reflected on requested transcripts.

Sign Language (ASL) 2
This will be a continuation based on what was learned in Sign Language 1.

Sign Language (ASL) 3
This will be a continuation based on what was learned in Sign Language 2.

Sound Design – Music Composition for Computers
This is a beginning musical composition class that will survey, create, and learn the beginning techniques of production in various styles of music. From classical, modern ambient, film score, commercial pop, and EDM, computers have become a primary tool for music creation, production, and scoring. In this class, students will learn the ins and outs of a DAW (Digital Audio Workstation), learn how to create MIDI (computer composition) and use VSTs (Virtual Studio Technology) to develop particular sound synthesis and design. Students will gain an appreciation for many forms of music through hands-on creation of their style and creative imagination.

Spanish 1
Students develop fluency and confidence in Spanish through a variety of listening, speaking, reading, and writing activities. New vocabulary is introduced along with grammar concepts such as infinitives, negative statements, adjectives, definite/indefinite articles, word order, and subject pronouns.

Spanish 2
The second year of the Spanish program continues to take students through the multi-year foreign language program that will further enhance fluency and confidence in Spanish. This will develop through enhanced listening, speaking, reading and writing activities. Students will continue to add vocabulary and grammar concepts building upon those elements learned through the first year program.

Spanish 3
The third year of the Spanish program continues to take students through the multi-year foreign language program that will further enhance fluency and confidence in Spanish. This will develop through enhanced listening, speaking, reading and writing activities. Students will continue to add vocabulary and grammar concepts building upon those elements learned through the first two years of the program.

Spanish 4
The fourth and final year of the Spanish program will seamlessly integrate vocabulary, grammar, communication, culture, and digital learning for upper level Spanish. This text features 12 thematic chapters with a focus on the integration of language and contemporary culture, a review and expansion of vocabulary and grammar, and extensive practice in the three modes of communication (interpretive, interpersonal, and presentational). The cultural themes allow for a deeper exploration of cultural products, practices, perspectives, and comparisons.

Theater
As a course for beginning and trained actors and speakers, Theater is designed to introduce and/or re- familiarize students with the practice of theatrical performance and public speaking. There will be in- class instruction, but the emphasis will be placed on acting and speaking skills and techniques. Students will also learn set and prop design and construction, costuming, technical aspects and history. Students will audition and perform a theatrical production in the spring.

Advanced Theater
Prerequisite: Theater
This continuation of beginning theater places more emphasis on character study and development. The course includes honing skills in directing concepts, acting skills, and play production through independent study and class performances. Students in this course will participate in their own production along with possible opportunities for speech/drama competitions in events such as duet acting, dramatic interpretation, and monologues.

UI/UX 101 – Computer Class
Companies need innovative thinkers who can design and build products with seamless user experiences. In this course, students will discover and learn about the tools and methods used to create modern solutions and interfaces in today's applications and products. Students will learn the tools of the trade with enough confidence to enter the workforce as an asset, and not just another "new hire." The instructor will provide real-world examples and knowledge from his years working at large companies, such as Dell, to more recent endeavors as he currently leads the UI/UX work at a Dallas startup called Sureshot. The semester will culminate with students researching, designing, and pitching an app to the class utilizing the skills and techniques learned throughout the course and end up with a great portfolio piece and the confidence to tackle real-world problems moving forward.

Writing Lab
Within this class, students will be provided opportunity to be instructed and supported in the areas of creative writing, journalistic writing, and other genres not covered in length within the English class. Students will have time to discuss current writing assignments and get feedback and direction to improve their overall writing style and projects.

Yearbook
This elective is a more advanced form of Journalism. Students will be compiling pictures and events throughout the school year to culminate in a final product that will be available to the student body for purchase. Students will explore topics such as photography, photo-journalism, and publishing.