SECONDARY COURSE CATALOG

Updated March 2022

Bible Department Course Descriptions

Boys' Bible (Middle School)
A study of the Bible and how it can totally change and influence one's life for the glory of God. Students are encouraged to engage in scripture and find ways to learn life lessons that will enhance their daily walk with God.

Core Bible (1 credit) ***9th-11th grades***
The objective of Core Bible is to familiarize students with the basic stories of the New and Old Testaments and to uncover the overarching narrative of God and mankind. Students will also examine Biblical histories and draw parallels to their experiences as teens today. Class activities include quiz games, current event discussions, and personal journaling. Through these various activities, the teacher hopes not only to teach the students Biblical history, but also to help strengthen their spirituality and character.

Dual Enrollment Bible (2 college credit hours per semester) ***11th grade***
Dual Enrollment Bible is offered through Lipscomb University. It consists of two semesters. The first semester covers The Story of Jesus, which is a study of the Gospel of Luke. Second semester covers The Story of the Church, which is a study of the book of Acts. Each semester earns a student two hours of college credit.

Girls' Bible (Middle School)
This class deals with the pressures of being a young Christian lady in this world. We focus on learning exactly who God is and how He sees us. We talk about peer pressure, dating, friendship, modesty, integrity and other issues that are so vital at this impressionable age. We also discuss topics such as racism, compassion, anger, fear, trust, spiritual warfare, grief, unity, family and revenge. All of these topics are addressed in the Bible and we study to see what God has to say about each one.

Senior Seminar (required of all seniors)
Senior Seminar is a study of Financial Peace for teenagers using Dave Ramsey's course during the first semester. Second semester prepares students to be able to defend their faith through a study of Christian Evidences and begin thinking about adulthood through a study of Christian Family. Senior Seminar also consists of various readings from Christian books.

English Department Course Descriptions

7th Grade English: Introduction to Reading and Composition

The seventh grade English course introduces a study of language, vocabulary, and spelling and includes practical application to writing for specific purposes. Seventh graders will be instructed in the fundamental skills of proper sentence structure, expanded into well-constructed paragraphs, leading to organized, purposeful essays. This course introduces seventh graders to a specific writing process and a unique revising and editing process. These tools combined, produce effective writers. Throughout the course, students will expand knowledge of vocabulary, literary elements, and hone critical thinking skills through reading informational texts, short stories, poetry, and novels. A typical unit of study includes reading, fiction and non-fiction of common topic, vocabulary study specific to the unit, and culminates in a final essay or project. The standards for this course are the 7th and 8th grade ACT Standards as well as Tennessee State Standards.

8th Grade English: Introduction to Reading and Composition II

This course is a continuum of Course I. The students will be instructed in a deeper study of language, vocabulary, and spelling with an emphasis on writing for specific purposes. Eighth graders will study the fine details of proper sentence structure, expanded into well-constructed, detailed paragraphs, leading to organized, purposeful essays. Within this course, students practice a specific writing process and a unique revising and editing process and produces essays that answer complex writing prompts. Throughout the course, students expand a deeper knowledge of vocabulary, literary elements, and hone critical thinking skills by reading complex informational texts, short stories, poetry and novels. A typical unit of study would include and variety of texts having a common topic or genre, a relevant vocabulary study, culminating into a final project or essay. The standards for this course are the 8th grade and 9th grade ACT standards and Tennessee State Standards. Summative assessment for this course includes PreACT 8/9.

9th Grade English: Analytical Reading and Comprehension (1 credit)

Analytical Reading and Comprehension is a combination of a study in grammar, composition, and vocabulary as well as several genres of literature: short story, fiction, non-fiction, poetry, novel, and Shakespearean drama. Students study units in each of these areas at different points throughout the various grading periods. Competence in language usage, writing skills, reading skills, and vocabulary knowledge is stressed. Summative assessment for this course includes PreACT 8/9.

10th Grade English: Critical Approach to Reading (1credit)

The 10th graders will be challenged through an extensive selection of readings including fiction, non-fiction, classical, and traditional which will be used as a springboard for critical examination and meaningful discussion. Writing instruction will be taught in conjunction with reading and

will include expository, persuasive, personal response, and creative writing. Grammar usage, mechanics, and rhetorical skills will be taught in the context of the student's own writing and through the means of daily lessons.

11th Grade English: Survey of American Literature (1 credit)

This course is designed to give students an overview of the literature of America from the Puritan Age through the 20th Century. Focus will be on literary movements and their relationship to historical and social context, patterns in American thought, and the evolution of Christian perspectives in America. Instruction will focus on enhancing these reading skills: analyzing elements of literature and nonfiction, analyzing cause/effect, identifying main ideas and themes, inferring, interpreting, drawing conclusions, and evaluating persuasive appeals and arguments. Writing instruction will be taught in conjunction with reading and will include expository, persuasive, personal response, and creative writing. Grammar usage and mechanics, and rhetorical skills will be taught in the context of the student's own writing and through the means of mini-lessons.

12th Grade English: Survey of British Literature (1 credit)

This course is designed to give students an overview of the literature of Britain from the Anglo-Saxon Age through the 20th Century. Focus will be on literary movements and their relationship to historical and social context, patterns in British and Western thought, and the evolution of Christian perspectives in the West. Instruction will focus on enhancing these reading skills: analyzing elements of literature and nonfiction, analyzing cause/effect, identifying main ideas and themes, inferring, interpreting, drawing conclusions, and evaluating persuasive appeals and arguments. Writing instruction will be taught in conjunction with reading and will include expository, persuasive, personal response, and creative writing. Grammar, usage, mechanics, and rhetorical skills will be taught in the context of the student's own writing and through the means of mini-lessons.

Dual Enrollment English (3 hours college credit per semester)

This course is a rigorous college-level course: the reading is challenging; the writing is frequent and requires an independent mind. The course runs two semesters with first semester covering Freshman Composition and second semester covering University Writing.

Oral Communication (1/2 credit)

This semester long class focuses on instilling confidence in students to be effective public speakers. Topics include effective delivery, listening skills, and organization of speeches. Students make oral presentations in a variety of forms including persuasion, how-to, PowerPoint, informative, autobiographical, impromptu, biographical. Students also participate in an interview unit during which they create a resume and take part in a mock interview with local business men and women.

Fine Arts Course Descriptions

Middle School Chorus

Junior High Chorus focuses on singing. Students spend time warming-up, sight reading, and learning challenging literature. They perform in concerts, festivals, honors auditions and events, and the solo and ensemble festival.

High School Chorus (1credit-elective)

High School Chorus also focuses on singing. Students focus on blend, vowels, unity, warming-up, sight reading, and learning challenging literature. They perform in concerts, festivals, honors auditions and events, solo and ensemble, spring tour (local churches), and graduation.

Advanced Chorus (By audition and teacher selection)

These students perform a variety of repertoire in addition to the high school chorus repertoire. The focus of this group is to become higher level musicians. The students perform in the same venues as the high school chorus.

Middle School Band

The MTCS Junior High Band is made up of 7th and 8th grade band students who have had one or more years of experience playing an instrument. In this class, we build on fundamentals learned in elementary band, expand ranges, perform in four concerts, encourage participation in honor bands/solo and ensemble festival, and strive to play our best to the glory of God. We are proud of the fact that students at MTCS can be in both the chorus and the band from 6th-12th grade. This provides our musically talented students more than one avenue to express their creativity and et as many performing experiences as they can before graduating. It's great to be in the Band at MTCS!

High School Band (1 credit- elective)

The High School Band is made up of 9th-12th grade band students who have had three or more years of experience playing an instrument. In this class, we further develop the skills necessary to play more difficult music with a great sound within an ensemble. All students in High School Band participate in concert band and basketball pep band. In addition to football and basketball games, the High School Band stays active in performing at other special occasions: Veteran's Day, Steak Dinner, Murfreesboro Christmas Parade, Notes for the Holiday, Concert Performance Assessment, Spring Band Concert, etc. MTCS also has a jazz band that meets outside the school day in the spring semester and performs at the Spring Banquet and JazzFest.

Middle School Art Rotation

This class is taken every other day for a nine week period. Students are given the opportunity to see what high school art will be like, working on projects for weeks at a time, trying new

techniques, and creating sketch assignments in their own sketchbooks. We touch on basics like proportion, pattern, mixing color, linear perspective, and showing values. Every two years, students are able to create works of art using acrylic paint, marker, colored pencil, clay, and linoleum prints,

Art 1 (1 credit- elective)

Students work through the principles and elements of art and design. For each unit we will study an element or principle, do a related sketch assignment, have a unit test, and create at least one major project in class. Art 1 students have the opportunity to create works of art using media such as colored pencil, acrylic, paint, and clay.

Art 2 (1 credit- elective)

We work through Western Art History in chronological order and create works of art reflective of each of the major periods. For each unit we will have notes, a review sketch assignment, and a test. This class is extremely useful for college bound students. If possible, take World History and Art 2 at the same time because we generally work through periods simultaneously. Art 2 students have the opportunity to create works of art using media such as watercolor, pastel, paint, clay, and even printmaking.

AP Art 2-D (1 credit- elective)

Students submit portfolios of various art work.

Foreign Language Department Course Descriptions

Spanish 1 (1 credit)

This is a beginning Spanish class. Using a combination of the total physical response method, traditional exercises, and memorization students learn vocabulary and conversational basics of topics from clothing and foods to pastimes and Hispanic culture. Present and preterit tenses of regular and irregular verbs are studied. Worship exercises are done in Spanish and students are required to participate in two language experiences outside the classroom.

Spanish 2 (1 credit)

This is an intermediate Spanish class. Students continue to expand their skills in vocabulary and usage with the methods of Spanish 1. Vocabulary is added, and expanded tenses include present, preterit, imperfect, future, conditional, present subjunctive, and imperative. Brief worship is conducted in Spanish and students must memorize longer passages of scripture. Students are required to participate in an outside language experience each nine weeks.

Honors Spanish 3 (1 credit- elective)

This is an honors Spanish course. This class reviews basic grammar from Spanish I and II. Conversation and reading are the most important elements base on culture and real word activities.

Dual Enrollment Spanish (3 hours college credit per semester)

This is a dual enrollment Spanish course that focuses on continual development of skills learned in Honors Spanish 3. Students will continue to advance in conversational Spanish as well as go in-depth about Spanish culture. Honors Spanish 3 is a prerequisite for Dual Enrollment Spanish.

Math Department Course Descriptions

Algebra 1 (1 credit)

Algebra 1 is a foundational math class that builds on the pre-algebra skills learned in middle school. Linear equations, inequalities, and functions are reinforced along with exponent rules and systems of linear equations. Polynomial operations, factoring polynomials, and solving quadratic equations are also introduced. Success in algebra 1 helps ensure success in Algebra 2, Geometry, and all future math classes.

Applied Mathematical Concepts (1 credit)

This course is for seniors who have just completed Algebra 2 and do not meet the requirements for College Algebra. The text, Algebra and Trigonometry for College Readiness , bridges the gap between high school courses and college courses. We thoroughly cover all the topics needed for success in college-level College Algebra and Trigonometry. As they progress through the text, students will work with linear equations and inequalities; graph and interpret multiple functions (linear, quadratic, square root, rational, exponential, logarithmic and trigonometric); and use mathematical models to understand the world around them. This course is supplemented with MyMathLab, which is an online homework program that provides personalized instruction and practice.

Dual Enrollment College Algebra (3 college hours per semester)

College Algebra covers many of the topics taught in Algebra 2 including solving linear and quadratic equations with real and imaginary solutions as well as solving linear and quadratic inequalities. Graphing linear and quadratic functions, polynomial functions, and exponential functions are examined. Systems of linear equations and inequalities and applications using linear programming are also covered. Students also learn matrix operations and solving systems using matrices using a graphing calculator. Finally, arithmetic and geometric sequences, the binomial theorem, permutations, combinations, and probability are studied. Success in College Algebra results in 3 hours of college credit.

Algebra 1 Honors (1 credit)

Our textbook, published by Holt McDougal, has a style that leads students to the discovery of mathematical ideas. Then, once they have discovered these ideas, they communicate what they have learned and apply what they know. Students will create and apply formulas, equations and inequalities to solve real world problems. In addition, students will explore concepts to include graphing, probability, exponents and powers, radicals, polynomials, quadratics and many other topics. Problem solving situations will provide all students (individually and in teams) the opportunity to foster connections with real life scenarios to help them appreciate the power of mathematics in their daily lives. In our Honors program, students will have the opportunity to complete quarterly projects that model mathematical ideas and bring students to a deeper level of

understanding. Students will use technology to assist in their learning and to interpret and analyze different mathematical concepts.

Algebra 2 (1 credit)

Our textbook, published by Holt McDougal, has a style that leads students to the discovery of mathematical ideas. Then, once they have discovered these ideas, they communicate what they have learned and apply what they know. Students will explore concepts to include solving systems of equations and inequalities, graphing, probability, complex numbers, exponents and powers, radicals, polynomials, quadratics, conics, trigonometry and many other topics. Problem solving situations will provide all students (individually and in teams) the opportunity to foster connections with real life scenarios to help them appreciate the power of mathematics in their daily lives. Semester projects will challenge students to model mathematical ideas and enable the student to come to a deeper level of understanding of the topic. Students will use technology throughout the course to assist in their learning and to interpret and analyze different mathematical concepts.

Algebra 2 Honors (1 credit)

Our textbook, published by Holt McDougal, has a style that leads students to the discovery of mathematical ideas. Then, once they have discovered these ideas, they communicate what they have learned and apply what they know. Students will explore concepts to include solving systems of equations and inequalities, graphing, probability, complex numbers, exponents and powers, radicals, polynomials, quadratics, conics, trigonometry and many other topics. Problem solving situations will provide all students (individually and in teams) the opportunity to foster connections with real life scenarios to help them appreciate the power of mathematics in their daily lives. Quarterly projects will challenge students to model mathematical ideas and enable the student to come to a deeper level of understanding of the topic. Students will use technology throughout the course to assist in their learning and to interpret and analyze different mathematical concepts.

AP Calculus (1 credit)

Calculus is approved by the College Board and is basically equivalent to College Calculus 1. The course topics are limits, derivatives, integrals, and the applications of those problems. There is a tremendous amount of technology included in the class. We use My Math Lab for providing accuracy with homework. In addition, students use TI-Nspire handheld devices and the TI-84 for technology support. The course ends with a College Board AP exam in May.

Geometry (1 credit)

Geometry is a comprehensive math course that focuses on proof and logical thinking, relationships of parallel lines, triangles, circles, and other polygons, and reasoning skills necessary to be successful on the ACT. This course should be taken after Algebra 1 because algebra is used consistently throughout the year in solving geometric problems.

Honors Geometry(1 credit)

Honors Geometry entails all of the above, but more in depth classroom discussion about proofs and problem solving will be part of the curriculum. In addition, students will be expected to complete a quarterly project.

Pre-Algebra (7th grade)

In 7th grade pre-algebra students will focus on developing understanding of and applying proportional relationships, developing understanding of operations with rational numbers, and working with expressions and linear equations. They will also solve problems involving scale drawings and informal geometric constructions and will work with two and three dimensional shapes to solve problems involving area, surface area, and volume. They will also draw inferences about populations based on samples.

Honors Pre-Algebra

In 7th grade honors pre-algebra students will focus on developing understanding of and applying proportional relationships, developing understanding of operations with rational numbers, and working with expressions and linear equations. They will also solve problems involving scale drawings and informal geometric constructions and will work with two and three dimensional shapes to solve problems involving area, surface area, and volume. They will also draw inferences about populations based on samples. The students will focus on formulating and reasoning about expressions and equations including modeling data in a linear equation; they will also solve linear equations and grasp the concept of functions. The students will understand and apply the Pythagorean Theorem.

Students must qualify for this class based on past performance on the Stanford Achievement test, teacher recommendation, and mastery of the 6th grade standards.

Students who are part of the honors pre-algebra 7 are on track to take Algebra 1 in the 8th grade year based on the exit exam given at the end of 7th grade.

Pre-Algebra (8th grade)

Students will focus on formation and reasoning about expressions and equations including modeling an association in bivariate data with a linear equation. They will solve linear equations and systems of linear equations; they will grasp the concept of function and using functions to describe quantitative relationships. The students will analyze two and three dimensional space and figures using distance, angles, similarity, and congruence; they will also understand and apply the Pythagorean Theorem.

Students in this class are on track to take Algebra 1 in their freshman year of high school.

Pre-Calculus (1 credit)

Pre-calculus is an honor class. It covers an assortment of topics including functions, polynomials, logarithms, trigonometric functions, vectors, matrices, and sequences. There is tremendous amount of technology included in this class. We use My Math Lab for providing accuracy with homework. Students also use the TI-Nspire handheld devices and the TI-84 for technology support.

Statistics (1 credit)

This course is designed to help students be successful in a college level, basic statistics class. Topics include data collection and summarization, probability and probability distributions, properties of the Normal Distribution and Binomial Distribution and using sample data to estimate properties of the population. Students will also learn how to estimate values of population parameters and use hypothesis testing.

Physical Education and Miscellaneous Course Descriptions

Driver Education (1/2 credit-elective)

Students gain awareness of the driving task and the responsibilities that accompany it. They demonstrate knowledge of traffic laws and regulations that help provide safe and efficient patterns. Students understand the impact that natural forces and conditions have concerning driving. They learn to identify hazardous conditions and react appropriately to avoid or minimize problems. Students develop an attitude of safe, courteous, and defensive driving. Students will also have the opportunity to experience actual on the road learning.

Middle School Physical Education

In junior high PE, students are separated into boys and girls. Students are taught healthy eating and living practices while encouraging life-long physical activity. Students learn teamwork through a variety of activities in which they participate. A uniform is required for PE and can be purchased through the school.

Health (1credit)

This class centers around general wellness of our students. Students will be trained to have an attitude of healthful living with daily exercise and good food choices. They learn a spirit of cooperation through the interaction in team sports. The focus is on maintaining a healthy, life balance.

Lifetime Fitness/Weight Training (1 credit)

This course is designed to give students the opportunity to learn weight training concepts and techniques used for obtaining optimal physical fitness and performance. Students will benefit from comprehensive weight training and agility activities. Students will learn the basic fundamentals of weight training, strength training, and agility training. Students will be empowered to make wise choices, meet challenges, and develop positive behaviors in fitness, wellness, and movement activity for a lifetime. We also offer this at the zero period (before school) for those with full schedules or for athletes needing extra training.

Study Hall (no credit- elective)

Study hall is designed as a period of quiet study time for students needing it during the school day. Study hall can be taken by semester or run the entire school year. There *may be* opportunity for students in study hall to seek the help of other teachers if that teacher's schedule permits.

Science Department Course Descriptions

7th Grade Science

The fields of life science, physical science, and earth science are addressed in the seventh grade science curriculum. Students will use a variety of hands-on, small group activities to learn about such topics as structure and diversity of organisms, life processes, weather, climate, biomes and the nature and transformation of energy.

Honors Anatomy and Physiology (1credit- elective)

Anatomy and Physiology is a rigorous, upper level course that will enable students to develop an understanding of the relationships between the structures and functions of the human body, as well as the mechanisms involved in maintaining homeostasis. This course will involve laboratory activities and a variety of dissections to enhance classroom learning.

Biology (1 credit)

Biology is a required ninth grade class that studies God's creation from the cell and its processes to the whole organism using science as a tool to investigate and learn these ideas. The course includes cell biology, genetics, evolution, and ecology, with a laboratory component for each area.

Chemistry (1 credit)

Chemistry is the study of matter and the changes that it undergoes. During the course of the year, many concepts such as the makeup and composition of the atom, chemical compounds and equilibrium and oxidation/reduction reactions are explored. The course aims to cover all four of the state standards.

Forensic Science (1 credit- elective)

Forensic Science is a course that explores the application of sciences (chemistry, physics, and biology) to the criminal and civil laws that are enforced by police agencies and the criminal justice system. Students will study fingerprinting, fiber analysis, ballistics, arson, trace evidence analysis, blood spatters, blood samples, and more as they relate to crime scene investigation. This class also familiarizes students with a variety of careers that are available in the field of forensic science.

Integrated Science 8

Through inquiry and technology, students will study the biodiversity of our world as well as its ever changing nature; the composition and structure of matter as well as how it behaves; and forces in nature that are found in magnetic fields and electrical currents.

Robotics (1 credit- Science)

Students who take robotics are part of the MTCS competition robotics team. Students learn basic engineering and physics principles while working with Vex Robotics materials. This class has a STEM focus and encourages active, analytical thinking. The Robotics class is excellent for students interested in careers in engineering and computer science.

Social Studies Department Course Descriptions

7th Grade: Geography

This course explores our world. We study the fundamentals of geographical terms at the beginning. We look at maps and get a grasp of the globe as a whole. Once students are familiar with technical terms, we start our exploration around the world, studying cultures, physical geography and points of interest. The course is designed to cultivate an interest in the world outside the one they live in. It is a springboard for each student to go and explore.

8th Grade: US History

This course examines the major points in American History. It starts with the early explorers, the first settlers and the events leading to the American Revolution. It explores our Constitution and our beginning political systems and government. We continue with the exploration of the frontier, reform movements, Manifest Destiny, the Civil War and Reconstruction.

American History (1 credit)

The Survey of American History is available to all juniors. The class provides students with a comprehensive overview of the political, diplomatic, social, economic, and intellectual history of the United States from Colonization to the late 20th century. The major themes around which the course is organized include: the evolution of the nation's political institutions, the transformation of the American economy, the formation and development of American culture and identity, and the nation's changing role in world affairs.

American Government (1/2 credit)

American Government is a semester course available to seniors. This is an introductory course on government and political science. The class examines the nation's constitution and its national government, the states in general, and Tennessee in particular. Emphasis is placed on the historical development of the government of the United States.

Dual Enrollment American History (3 college credits per semester)

Dual Enrollment American History is a college level course currently offered through Lipscomb University. The first semester covers the history of the United States from exploration to Reconstruction. The second semester covers the Gilded Age to modern times.

Economics (1/2 credit)

Economics is a semester course available to seniors. The class provides a comprehensive overview of the main features of the American economy. Major topics include: basic economic theory, the structure and function of the American free enterprise system, the role of government in regulating economic activity, and comparative and international economics.

World History (1 credit)

World History is a study of the major figures and events in global history. The goal of this class is to tie together major events throughout the last fifteen-hundred years in order to shed light on current and future global conditions.

Technology Department Course Descriptions

Digital Learning (1credit)

Digital Learning is a class that begins with a review over typing skills. We then proceed to learning all the aspects of Word that they will need to know for formatting papers and other documents they will be creating for classes. The next application we cover is Excel. We learn how Excel helps organize information. It isn't just for numbers, but you can use functions for averaging, finding the maximum and minimum, as well as others. Excel also gives us the ability to create graphs. Lastly we learn how to create PowerPoint presentations. We learn how to add links, video, sound and transition between slides. By the end of the course, they will have the ability to create most projects that a teacher would assign for them to complete.

Yearbook (1 credit- elective)

Students complete the yearbook on time and on budget and gain membership in the National Yearbook Program of Excellence. In order to do this, the yearbook staff must send cover proof back on time, submit distribution event date on time, show at least 50% of MTCS students in the yearbook three or more times, and meet all deadlines on time. Students are selected for yearbook through an interview process beginning with sophomores.

Graduation Requirement and Planning Sheet

Student Name: _____ **Graduation Year** _____

9th Grade
1. Bible
2. English 9
3. Health/Wellness
4. Algebra **OR** Geometry
5. Digital Learning
6. Biology
7. Elective _____

*See list.

10th Grade
1. Bible
2. English 10
3. World History
4. Geometry **OR** Algebra 2
5. Chemistry
6. Elective 1: _____
7. Elective 2: _____

* See list.

11th Grade
1. Bible **OR** DE Bible
2. English 11
3. US History **OR** DE US History
4. Algebra 2 **OR** Pre-Calculus (H)
5. Elective 1: _____
6. Elective 2: _____
7. Elective 3: _____

*See list.

12th Grade
1. Senior Seminar (Bible)
2. English 12 **OR** DE English
3. Government/Economics
4. Math Course: _____
5. Elective 1: _____
6. Elective 2: _____
7. Elective 3: _____

* See list.

Electives Must Include the Following:
1. 3rd Science Credit (Junior or Senior Year-full year)
2. Foreign Language (two consecutive years)
3. ½ Fitness Credit
4. Fine Arts Credit (full year)
5. ½ Speech Credit

Notes:

Dual Enrollment requirements

21 ACT composite

21 on math subsection for College Algebra and Trigonometry

Mrs. Hurt Notes: