



Cornerstone
CHRISTIAN SCHOOLS



CCS COURSE CATALOG

2021-2022

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Introduction

This course catalog complements the Academics section within the CCS Secondary School Student-Parent Handbook, which contains information on graduation requirements and much more. With rare exception, the courses in this catalog represent the college-prep and advanced level curricular options afforded to CCS secondary students.

Course Descriptions: High School

Biblical Studies

Vision Statement

“But seek first his kingdom and his righteousness, and all these things will be given to you as well.” (Matthew 6:33)

The purpose of the Biblical Studies program at CCS is to provide an academic environment for students to know God through Jesus Christ and to grow in their faith. God is a personal God who reveals to humanity his nature, purpose in history, and love for all creation. At the center of our faith is the crucified and risen Jesus Christ and our belief that “...the Son of God became a man so that humanity could become children of God” (Mere Christianity, C.S. Lewis). The Biblical Studies curriculum further provides the framework for a study of Scripture, thus providing the opportunity to apply biblical principles and examples to the choices and issues students face each day. The focus of the intentional classroom instruction consists of a) knowledge of the Bible, b) application of Scripture, and c) discernment to think and reason from a biblical worldview. The ultimate goal is to help students formulate a Christ-centered biblical worldview.

What a CCS student will know and be able to do in Bible:

- Develop and demonstrate a respect and love for God
- Develop a personal and intimate knowledge of God
- Demonstrate obedience to God and his will
- View the world as God’s handiwork
- Understand God’s sovereignty in his creation
- Understand that God has a purpose and plan for each life
- Develop a biblical worldview of man, his origin, nature, history, and destiny
- Understand the unity of all God’s truth
- Demonstrate an understanding of how truth is known
- Demonstrate the ability to discern truth and error
- Understand that values are rooted in an eternal God
- Identify what is good and what is evil and to pursue that which is good
- Demonstrate an appreciation of the arts
- Exemplify the four Warrior student outcomes: spiritually alive, intellectually alert, physically disciplined, socially adept

Courses

Bible Survey (Survey of Old and New Testaments)

The Bible Survey course provides students with a clear understanding of the structure, authorship, chronological setting, and content of the Old and New Testaments. Students will develop a foundational understanding of the context in which the Old Testament emerged and will examine the life, ministry, teachings, death, and resurrection of Jesus Christ. Students will learn how to apply critical thinking skills to the reading of biblical texts, how to examine and analyze Scripture and how this study relates to our lives and points to Jesus Christ. The Bible Survey course is required for graduation; it is designated as a freshman level course.

Apologetics: Faith

The Apologetics: Faith course is designed to deepen and broaden the student's understanding of the core presuppositions of the Christian worldview and to enable the student to evaluate those presuppositions in contrast with other competing worldviews. The goal is to challenge the student's understanding of biblical truth and its relevance to all of life, to help him or her to declare biblical truth with integrity and clarity, and to be able to defend biblical truth with intellectual vigor and courage. This course is required for graduation; it is designated as a sophomore level course.

Comparative Religions

The Comparative Religions course deepens and broadens the student's understanding of the core presuppositions of the Christian worldview and enables the student to evaluate those presuppositions in contrast with other competing world religions. The course will equip the Christian to analyze ideas, and to evaluate dominant world religions and their perspectives from a biblical standpoint. It will provide better knowledge of Scripture and how to apply it to the issues of today. This should lead to a better understanding of the world and help develop a heart for evangelism and world missions.

Leader for Life

The Leader for Life course is designed to help seniors discover and develop their God-given talents as leaders, challenging them to use their abilities to lead while making a positive difference in the world. Through the study of various biblical and historical godly men and women, students are expected to develop a biblical understanding of leadership skills. The senior thesis serves as the capstone of the Leader for Life course and the student's academic experience at CCS. The objective of the thesis is to afford seniors an opportunity for practical, real-life research and understanding of a specific area of academic and/or career pursuit while simultaneously facilitating a distinctive examination of how the Lord is actively working in and through a student's studies. Every thesis project is cross-curricular with the CCS English Department and culminates with a formal presentation. Top presenters will present before the student body and a panel of school leaders and other professionals.

Language Arts

Vision Statement

“A nation becomes what its young people read in their youth. Its ideals are fashioned then, its goals strongly determined.” -James A. Michener

The CCS Language Arts education exposes students to a variety of literary genres: Christian fiction, apologetic writing, secular novels, historically-based literature, historical documentation, prose, poetry, personal narratives, and a wide array of children’s literature. The systematic targeting of organizational skills, analytical thinking, and editing skills woven throughout the Language Arts curriculum enhances the success of the students. Discernment for God’s truth is taught formally and informally within the Language Arts discipline. Students evaluate literature and accompanying forms of written communication on the basis of the truth and gain a deeper understanding and application of biblical truths.

CCS’s objective is to prepare Christian leaders who demonstrate curiosity, appreciation, and a desire for learning. Students are academically challenged through specific academic standards and benchmarks and the incorporation of a variety academic activities utilizing: a) research, b) critical thinking/discernment, c) application of knowledge, d) evaluation of performance, and e) solution finding/problem solving. Students actively engage in skills required in written and oral communication applicable for academic, business, and creative environments. Students demonstrate clarity of thought, organization, unique voice, and accurate and articulate utilization of the English language. Students become “fearless writers”. The CCS student is proficient within the Language Arts arena and applies the skills and strategies within other curriculum areas.

Language as thought and behavior, as the spoken and written word, as a tool of analysis and persuasion, as a medium of imagination and memory, as a record of history and culture, and as the common coin of human communication -- each and all of these uses and manifestations of discourse are the continual subjects of the Language Arts curriculum.

What a CCS student will know and be able to do in Language Arts:

Reading

- Demonstrate competence in the general skills and strategies of the reading process.
- Demonstrate familiarity with a variety of literary works of enduring quality including the truth of Scripture and its influence on literary forms and themes.
- Demonstrate competence in applying reading strategies to learn from specific types of informational texts and literature.

Writing

- Demonstrate competence in the general skills and strategies of the writing process:
 - Overall development: how well the writer communicates with the reader, shows awareness of the audience, task, and purpose for writing, and writes in the appropriate mode of discourse.
 - Organization: the writer’s ability to develop a logical plan of organization, maintain coherence throughout the paper, and create paragraphs.
 - Support: the use of appropriate reasons, details, and examples to enhance the effect and/or support the generalizations and conclusions of the piece.

- Sentence structure: completeness, correct usage, and variety of sophistication of sentences.
- Word choice: specific vocabulary, freshness and vividness of language.
- Mechanics: the correct and effective use of spelling, punctuation and capitalization.
- Write with a command of the grammatical, mechanical, and usage conventions of Standard Edited American English
- Demonstrate competence in the stylistic and rhetorical aspects of writing.
- Demonstrate competence with a variety of types of essays including a) narrative, b) informative/descriptive, c) expository, d) persuasive, and d) critical thinking.
- Compile and present a portfolio of written work.
- Gather and use information effectively and ethically for research purposes.

Speaking/Listening/Discussion

- Demonstrate competence in speaking and listening as tools for learning.
- Demonstrate acquisition and application of discernment during oral communication.
- Demonstrate competence in the utilization and application of skills required in successful debate.

Courses

English 9

03220100

The English 9 course provides a dynamic framework for the study of foundational English skills. In particular, students engage in a variety of literacies to be successful students and citizens of the 21st century. This means developing, through guided instruction, a growing critical stance to the variety of texts and information students encounter as well as written and oral communication strategies that address specific audiences and purposes. Units of study are framed around essential questions that encourage students to examine their relationship to the world around them. Students read a variety of fiction, nonfiction, and poetry, representing a diverse collection of voices and experiences, in order to gain a better understanding of what it means to live in a global society. Students write expository, narrative, analytical, and persuasive paragraphs and essays with an emphasis on the recursive nature of the writing process (from idea and thesis development through revision). The reading and writing instruction in this course is designed to develop further the following critical skills: inference, logic, clear expression, organization, awareness of word choice, development of voice, detail development, topic formation and supporting evidence.

English 9 Honors

03220100

The English 9 Honors course is a more rigorous freshman level course. The pace of the instruction is accelerated in order to add depth and variety to the study of major literary works and increase the opportunities for writing.

English 10

03220200

The English 10 course intensifies and advances the study and practice of the skills from English 9. Students learn to read and think critically, to ask appropriate questions of texts across multiple media, and to write with clarity for a variety of audiences. Works are chosen both for their literary merit and for their thematic focus on shaping and challenging social norms. Major works of literature studied in the course include classic novels, as well as an engaging, challenging array of short stories, plays, poems, nonfiction, and stories told through visual media. Class discussion nurtures skills in higher-order thinking with an emphasis on

articulate self-expression. Premised on a variety of models, students practice writing expository, analytical, narrative, and persuasive essays. A comparative research project that targets colleges and universities is also a component of this course.

English 10 Honors

032220200

The English 10 Honors course is a more rigorous sophomore level course. The pace of the instruction is accelerated in order to add depth and variety to the study of major literary works and increase the opportunities for writing. A comparative research project that targets colleges and universities is also a component of this course.

English 11

03220300

The English 11 course emphasizes critical reading skills through guided study and discussion of American Literature. Students discuss and analyze themes such as the meaning and validity of the American dream, the relationship between the individual and his or her community, and the tension between idealism and materialism. Students develop analytical, reflective, descriptive, and persuasive writing skills and express their voices for various purposes and audiences. Multi-modal projects encourage independent thinking and innovative self-expression. Through independent and group practice, students continue to build a college-ready lexicon.

English 12

03220400

The English 12 course consists of a survey of Western literature. It is designed to prepare students for the writing, speaking, and analysis requirements of collegiate English coursework. While focusing on essential questions each semester, students read nonfiction and fiction and write persuasive, narrative, expository, and analytical essays in addition to journal assignments. Students apply their writing, speaking, argumentation, and research skills to a broad range of topics and situations, emphasizing ethos, pathos, and logos.

Rhetoric and Writing for the 21st Century

The Advanced Placement® English Language and Composition course is open to eligible juniors and seniors. It serves as an English elective for juniors and as either an elective or a final required English credit for seniors. The course teaches students to be skilled readers of nonfiction in a variety of genres and for a variety of rhetorical situations. (Students become fluent in the language of argumentation and practice skills related to the recognition and practice of persuasion.) Students will also learn to write for a wide range of purposes and audiences, composing persuasive, expository, and analytical essays. Students will learn to write effectively and confidently, using their own knowledge and experiences, and will sit for the AP English Language exam.

Advanced Placement® English Language and Composition

A3220100

The Advanced Placement® English Language and Composition course is open to eligible juniors and seniors. It serves as an English elective for juniors and as either an elective or a final required English credit for seniors. The course teaches students to be skilled readers of nonfiction in a variety of genres and for a variety of rhetorical situations. (Students become fluent in the language of argumentation and practice skills related to the recognition and practice of persuasion.) Students will also learn to write for a wide range of purposes and audiences, composing persuasive, expository, and analytical essays. Students will learn to write effectively and confidently, using their own knowledge and experiences, and will sit for the AP English Language exam.

Advanced Placement® English Literature and Composition

A3220200

The Advanced Placement® English Literature and Composition course aligns to an introductory university-level literary analysis course. This intensive, full-year class is designed to instill an intellectual understanding and appreciation of some of the most

celebrated authors from the British Isles, such as Geoffrey Chaucer, William Shakespeare, John Milton, William Wordsworth, Mary Wollstonecraft, Virginia Woolf, James Joyce, and Samuel Beckett. Emphasis is placed upon critically analyzing the influences their distinctive styles and themes have had on world literature, with particularly close attention paid to examining their texts in a socio-political and philosophical context. Historical periods and movements – from the Middle Ages and the Renaissance through the Restoration, Romanticism, Victorianism, and Modernism – will be explored via representative works and scholarly essays. Writing is an integral portion of this course to prepare students for the AP exam and the challenges of daily life, the university, and beyond. Written skills will be enhanced and fine-tuned through numerous writing assignments of varying length (formal analytical/argumentative, expository analytical, informal exploratory, research-based, etc.), most of which will focus on the critical analysis of literature. Learning to speak confidently and effectively in public will also be stressed through discussions and various public-speaking exercises. This course concludes with an AP English Literature exam.

Yearbook I

03230110

The Yearbook course is designed for the purpose of producing the school's yearbook. Students will be provided the opportunity to develop the skills of desktop publishing, photography, journalistic writing, collaboration, and business management. Students will also become adept in the areas of editing, proofreading, layout design, and time management.

Yearbook II

03230120

The Yearbook II course is designed for the purpose of producing the school's yearbook. Students will be provided the opportunity further to develop the skills acquired in Yearbook I, namely, desktop publishing, photography, journalistic writing, collaboration, and business management. Students will also enhance their skillset in the areas of editing, proofreading, layout design, and time management.

Mathematics

Vision Statement

Mathematics is the curriculum strand that exemplifies God's precise, orderly, and sometimes mysterious creation. As a result of a mathematics education, students will develop literacy in mathematics. Further, in seeking solutions, students incorporate abstract thinking skills. Students experience abundant opportunities to reason mathematically, recognize the connection between mathematics and other disciplines, and express an understanding of concepts using a variety of methods and media.

What a CCS student will know and be able to do in Mathematics:

- Understand and apply the concepts of:
 - Number and operation sense
 - Patterns, functions, symbols, and models
 - Geometry and measurement
 - Data analysis, statistics, and probability
- Be mathematical problem solvers
- Communicate mathematically
- Identify connections within mathematics and to other subject areas.
- Apply mathematical representations to foster understanding of mathematics.
- Identify God's orderliness and mystery reflected in mathematics.

Courses

Algebra I 03100500

The Algebra I course is designed to provide the foundation for more advanced mathematics courses and to develop problem-solving skills. Topics include variables, structure and properties of the real number system, first-degree equations and inequalities, relations, functions, graphs, systems of linear equations and inequalities, polynomials, integer exponents rational expressions, irrational numbers, radical expressions, quadratic equations, and yearlong work on problem solving. A graphing calculator is utilized throughout the course.

*This course is offered at the Middle School level for students who have demonstrated a history of success in mathematics as evidenced through STAR assessments.

Algebra I Honors 03100500

The Algebra I Honors course is an advanced mathematics course which is designed to address the needs of students who desire to move through the foundational elements in a more rapid manner to focus on the deeper levels of knowledge and application of skills. A graphing calculator is utilized throughout the course. *This advanced course is offered at the Middle School level for students demonstrating a history of superior mathematic success and interest as evidenced through STAR assessments.

Geometry 03100700

The Geometry course is an integrated course in plane and solid geometry that includes the following topics: geometry in the coordinate plane, line and angle properties, properties of polygons, circles, Pythagorean Theorem, area, volume, similarity, right triangle trigonometry, and geometric proof. Students will investigate concepts and build conceptual understanding

while continuing to develop, reinforce, and master computational skills. This course also has an integrated unit that targets the fundamentals of statistics. A graphing calculator is utilized throughout the course. *This advanced course is offered at the Middle School level for students demonstrating a history of superior mathematic success and interest as evidenced through STAR assessments.

Geometry Honors

03100700

The Geometry Honors course is an advanced mathematics course that offers a curriculum that includes the following topics: an introduction to geometry, coordinate geometry, concepts of parallelism and perpendicularity, congruent triangles, applications of congruent triangles, quadrilaterals, similarity, right triangles and trigonometry, circles, polygons, surface area, volume, and a review of algebra topics in preparation for Algebra 2. This course also has an integrated unit that targets the fundamentals of statistics. The development of problem-solving strategies and good reasoning habits are emphasized in this course. Students are required to complete a mathematical research project/paper. A graphing calculator is utilized throughout the course. *This advanced course is offered at the Middle School level for students demonstrating a history of superior mathematic success and interest as evidenced through STAR assessments.

Algebra II

03100600

The Algebra II course emphasizes the further development of Algebra I skills, the treatment of geometric concepts from an algebraic point of view, more advanced problem-solving techniques, and the study of mathematics as a unified structure. Topics covered include: conic sections, rational expressions, equations and inequalities, systems of linear equations, word problems, functions, factoring, quadratic equations with rational and irrational roots, irrational numbers, imaginary and complex numbers, graphs, variations, exponents and logarithms, coordinate geometry, quadratic functions, equations of the second degree and their graphs, polynomial functions, exponential functions, logarithmic function and matrices. A graphing calculator is utilized throughout the course.

Algebra II Honors

03100600

The Algebra II Honors course covers all topics listed in the regular Algebra II course description (above) and will investigate many of the topics in greater depth. This honors course focuses more on the role of functions in preparation for the Precalculus Honors course. This advanced course demands a deeper level of problem solving and critical thinking. A graphing calculator is utilized throughout the course.

Mathematical Models with Applications

03102400

Mathematical Models with Applications builds on knowledge and skills for math that students learn in elementary school through Algebra I. This course provides a path for students to succeed in Algebra II and prepares them for various post-secondary choices. Students apply math through experiences in personal finance, science, engineering, fine arts, and social sciences. Students use algebraic, graphical, and geometric reasoning to recognize patterns and structure, model information, solve problems, and communicate solutions. Students will select from tools such as physical objects; manipulatives; technology, including graphing calculators, data collection devices, and computers; and paper and pencil and from methods such as algebraic techniques, geometric reasoning, patterns, and mental math to solve problems.

Precalculus

03101100

God has created a phenomenal universe and imparted on us the ability to develop the numerical language of mathematics by which we use to understand his creation. After students have mastered algebra, they begin the transition phase into the next tier of mathematical language. Precalculus, a synthesis of advanced mathematical concepts in preparation for Calculus, is broken into ten units that focus on the topics of functions,

graphs, trigonometry, advanced geometry; transcendentals, linear systems, discrete mathematics, and an introduction to Calculus. This course is designed to prepare the successful student for Calculus whether at CCS or in college.

Precalculus Honors 03101100

The Precalculus Honors course is specifically designed for students who plan to continue their study of mathematics by taking Calculus or the Advanced Placement® Calculus course. The concepts of algebraic, trigonometric, exponential, and logarithmic functions are stressed. Conic sections, sequences and series, introductory probability and statistics, polar coordinates and graphing, and elementary concepts of calculus are also included. A graphing calculator is utilized throughout the course.

Advanced Placement® Calculus AB 03101100

The Advanced Placement® Calculus AB course consists of a full high school academic year of work and is comparable to calculus courses in colleges and universities. The course emphasizes a multi-representational approach to calculus, with concepts, results, and problems being expressed graphically, numerically, analytically, and verbally. The content of this college-level Advanced Placement course is determined by the College Board's Advanced Placement Committee in mathematics. Topics covered include: a) limits and continuity, b) the rate of change of a function, c) formal differentiation and its applications, d) integration and its applications, and e) the calculus of transcendental functions. Students take the Advanced Placement examination in May. A graphing calculator is utilized throughout the course.

Advanced Placement® Calculus BC 03101100

The Advanced Placement® Calculus BC course is a highly rigorous mathematics course. The content of AP Calculus BC is determined by the College Board's Advanced Placement committee in mathematics. The course consists of the material covered in the AP Calculus AB course which is taught at a significantly accelerated pace as well as additional advanced topics including: a) slope fields, b) Euler's method, c) integration by parts and partial fractions, d) improper integrals, e) vectors, f) parametric equations, and g) sequences and series. Students take the Advanced Placement examination in May. A graphing calculator is utilized throughout the course.

Advanced Placement® Statistics A3100200

The Advanced Placement® Statistics course is designed by College Board's Advanced Placement committee in mathematics. The contents of the course include: a) interpreting graphical displays of distributions of univariate data, b) summarizing and comparing distributions of univariate data, c) exploring bivariate data and categorical data, d) planning and conducting surveys and experiments, e) probability as relative frequency, f) combining random variables, g) the normal distribution, h) simulating sampling distribution, i) confidence intervals, and j) tests of significance and t-distributions. A graphing calculator is utilized throughout the course.

Science

Vision Statement

The CCS Science curriculum provides an opportunity for each student to develop a grounded biblical truth measured against his/her observations of the natural world and its processes. Science is a method of inquiry founded upon the order of this natural world and the design of its Creator. Science is an ongoing process that is limited as an investigative tool. Students become responsible, independent, questioning, creative, and organized learners moving from curiosity to familiarity, then master of scientific skills, processes, concepts, and theories. Students explore the various disciplines of science through an organized progression of class presentations, hands-on activities, and laboratory investigations that emphasize scientific processes and develop critical thinking skills. Students recognize that science integrates with mathematics, technology, written language, and consumer and career interests. Resulting from scientific knowledge, students come to acknowledge their role as stewards to care for humanity and conserve resources for the glory of God.

What a CCS student will know and be able to do in the Sciences:

- Exhibit knowledge of the historical development and application of skills, concepts, and processes in:
 - Scientific inquiry (the practice of science)
 - Physical science
 - Life science
 - Earth and space science
 - Science and technology
- Exhibit an understanding of unifying concepts and processes of science:
 - Systems and organization
 - Rules of evidence
 - Models
 - Explanations
 - Role of measurement, change, and equilibrium
 - Relationship between structure and function
- Exhibit critical thinking skills to distinguish between fact, myth, and theory.
- Practice safe and appropriate use of scientific instruments, materials, equipment, and procedures.
- Communicate scientifically via various forms of oral and written discussions and/or presentations.

Courses

Biology 03010200

The Biology course is based on a conceptual and laboratory approach to understanding the nature of living things. The course opens with an introduction to the scientific method and basic chemistry. Subsequent units cover all of the major aspects of the cell and cell theory including structure and function, photosynthesis and respiration, meiosis and mitosis, the cell cycle, nucleic acids and protein production. Students are also introduced genetics and heredity. The second half of the year is devoted to classification and a survey of all of the major kingdoms of living organisms with an emphasis on humans. Computer generated activities, animations, webquests, virtual field trips, and other evolving forms of technology will be incorporated into all facets of the course. *This advanced course is offered at the Middle School level for students demonstrating a history of success and interest as evidenced through STAR assessments. Corequisite: Algebra I.

Biology Honors 03010200

The Biology Honors course is a comprehensive, challenging, introductory biology course. Time management, work-study skills, and problem-solving techniques are developed throughout the year. Refinement of laboratory skills is an integral part of this course. Microscopic and dissecting techniques allow the student to study organisms anatomically both microscopically and macroscopically in order to realize the correlation and importance between structure and function. Computer generated activities, animations, web quests and research are incorporated in the presentation and investigation of concepts. *This advanced course is offered at the Middle School level for students demonstrating a history of success and interest as evidenced through STAR assessments. Corequisite: Algebra I.

Chemistry 03040000

The Chemistry course covers the fundamental concepts of an introductory chemistry course. Topics studied include the phases of matter and transitions between these phases, types of chemical reactions, mathematics of chemical reactions, and energy changes which accompany those reactions, atomic theory, models, periodicity, bonding theory, properties of solutions, kinetics, equilibrium, acid-base chemistry and nuclear chemistry. The course is paced so that students are able to progress with comprehension and intuitive understanding.

Chemistry Honors 03040000

The Chemistry Honors course is a comprehensive introductory chemistry course. Topics covered include periodicity, atomic theory, bonding theory, kinetic molecular theory, stoichiometry, properties of solutions, kinetics, equilibrium, acid-base chemistry, oxidation-reduction, electrochemistry, and nuclear chemistry. Students are expected to work independently in the laboratory and classroom.

Aquatic Science 3030000

In this course, students will not only study but will appreciate the beauty and intricacy within the biotic and abiotic aquatic realm of God's creation. Students will learn, through a global approach, that our oceans and seas function as a vast integrated system. They will also be introduced to many regions and fresh water and marine ecosystems so that this relationship can be seen. Basic concepts in physical, chemical, geological, and biological oceanography will also be examined. It is expected that students will become aware of the ocean's importance to human affairs and of the many relationships between their own shores and the one world ocean that so greatly influences our lives.

Anatomy and Physiology 13020600

The Anatomy and Physiology course provides the opportunity for students to explore the basic anatomical structure of the human body and to learn how the parts in a normal living human function to perform various activities necessary for life. Lecture and discussion are strongly reinforced with a laboratory emphasizing dissection and microscopic techniques. A comprehensive semester project may be required, rather than a final examination.

Physics Honors 03050000

The Physics Honors course provides students with a conceptual introduction to the laws of the physical world. Subjects include motion analysis, forces, momentum, work, energy, heat, waves, sound, light, electricity, and magnetism. Problem-solving methods of teaching physics are used. Students improve their applied quantitative skills by solving physics problems, thereby illustrating knowledge of fundamental physics concepts. The course also stresses development of laboratory skills through regularly scheduled laboratory sessions and special projects. Students are encouraged to question, observe, collect data, analyze results, and reach conclusions on physical relationships. Independent creative thought and study are encouraged throughout the course.

Advanced Placement® Biology A3010200

The Advanced Placement® Biology course is a rigorous comprehensive course designed for dedicated students committed to working at a college level on a daily basis. The units of study include the study of a) the processes that drive the diversity and unity of life, b) how biological systems utilize energy and molecular building blocks to grow, reproduce, and maintain homeostasis c) how living systems retrieve, transmit, and respond to information essential to life processes. Students sit for the AP Biology exam in May.

Advanced Placement® Chemistry A3040000

The Advanced Placement® Chemistry course is a one-year comprehensive introductory course of general chemistry at the college level. The AP Chemistry course provides students with a college-level foundation to support future advanced coursework in chemistry. Students cultivate their understanding of chemistry through inquiry-based investigations, as they explore topics such as: atomic structure, intermolecular forces and bonding, chemical reactions, kinetics, thermodynamics, and equilibrium. Students sit for the AP Chemistry exam in May.

Advanced Placement® Environmental Science A3010200

A lab-based course, Advanced Placement® Environmental Science explores and investigates the interrelationships of the natural world and analyzes environmental problems, both natural and human-made. Units include ecosystems, biodiversity, populations, Earth systems and resources, land and water use, energy resources and consumption, atmospheric pollution, aquatic and terrestrial pollution, and global change. Students sit for the AP Environmental Science exam in May.

Advanced Placement® Physics 1 A3050003

The Advanced Placement® Physics 1 course is a rigorous comprehensive introductory physics course. The course covers Newtonian mechanics (including rotational dynamics and angular momentum); work, energy, and power; and mechanical waves and sound. It also introduces electric circuits. Emphasis is placed on development of problem-solving methods, creative thought and laboratory skills. Students will sit for the AP Physics I exam in May.

Engineering and Computer Science

Vision Statement

As a result of CCS's Engineering and Computer Science curriculum, students will actively utilize technology to conduct research, increase productivity, perform basic and intermediate level operations, facilitate communication, and engage in creative problem-solving and decision-making. Students will recognize their personal responsibility in the use and application of technology as a medium of truth.

CCS recognizes that thriving in a technology driven society requires that students effectively use the full range of digital tools. The technology department strives to provide state-of-the-art educational opportunities for all students. Through the work of this department, CCS graduates demonstrate an understanding of the use of technology as a means for communication, research, analysis, and self-expression. Additionally, our graduates are sensitive to the broader philosophical, moral, and ethical issues connected with the use of digital technology. Every student in grades sixth through twelve uses a personally owned, wirelessly networked device. Members of the technology department work with all CCS teachers and students in mastering these powerful and flexible tools. In addition, students with special interest in technology are encouraged to enroll in one of the elective courses offered by the technology department.

Courses

Introduction to Engineering Design

Satisfies a Science credit.

Introduction to Engineering Design course provides the opportunity for students to engage in the engineering design process actively. Students apply mathematics, science, and engineering standards to hands-on projects. They work both individually and in teams to design solutions to a variety of problems using 3D modeling software and use an engineering notebook to document their work.

Principles of Engineering

Satisfies a Science credit.

Principles of Engineering course provides the opportunity for students to engage in the engineering design process actively. Students applying mathematics, science, and engineering standards to hands-on projects. They work both individually and in teams to design solutions to a variety of problems using 3D modeling software and use an engineering notebook to document their work. Students are challenged to explore a broad range of engineering topics, including mechanisms, the strength of structures and materials, and automation. Students develop skills in problem solving, research, and design while learning strategies for design process documentation, collaboration, and presentation.

Introduction to Computer Science and Programming

13027600

The Introduction to Programming course is designed for students with little or no computer programming experience. It covers a broad range of topics, from ASCII to ZIP. Focus will be given to the history of computing, computational complexity, computer ethics, and the Internet. Through the use of Python programming language, students are introduced to computer programming and how it can be used to solve interesting, relevant problems. A documented history of success in Algebra I is beneficial for the student in this course.

Robotics Programming and Design

03580395

Scripture portrays God as the ultimate designer. When humans create and design, they reflect God's image. The Robotics Programming and Design course fosters students' God-given creativity and innovation by presenting opportunities to design, implement, and present meaningful robotic programs through a variety of media. Students will collaborate with one another, their instructor, and various electronic communities to solve problems in designing and programming robots. Through data analysis, students will identify task requirements, plan search strategies, and use robotic concepts to access, analyze, and evaluate information needed to solve problems. By using robotic knowledge and skills that support the work of individuals and groups in solving problems, students will select the technology appropriate for the task, synthesize knowledge, create solutions, and evaluate the results. Students will learn digital citizenship by researching current laws and regulations and by practicing integrity and respect. Students will gain an understanding of the principles of robotics through the study of physics, robotics, automation, and engineering design concepts.

Social Science

Vision Statement

“From the experience of the past we derive instructive lessons for the future” -John Quincy Adams

Students acquire an awareness and understanding of the world, its people, and its history and investigate ways the past may influence the future. Within the diverse range of Christian perspective, students explore patterns of human and environmental interaction through history, geography, political science, economics, and current events and become aware of the interconnectedness of these disciplines. Alexander Hamilton stated, “There is a certain enthusiasm in liberty, that makes human nature rise above itself, in acts of bravery and heroism.” It is the intensive study of American History that affords students the opportunity to understand and deeply appreciate the uniqueness and the exceptionality of the United States of America. Just as Luke recognized the importance of firsthand accounts in understanding historical events (“Many people have done their best to write a report of things that have taken place from the beginning,” Luke 1:1-2), so student learning in the social sciences focuses primarily upon primary and secondary sources. When exploring cause and effect relationships, students apply Christian principles to examine past and present, local, state, national as well as global events. Students develop an appreciation for a personal heritage and cultural differences as they evaluate their roles and responsibilities as citizens in God’s creation. Using multiple research techniques and mediums, students collect information and then analyze, synthesize, and present this data in a variety of modes, including formal written and oral presentations enhanced with technology. Students grow in their ability to make informed, reasoned decisions as citizens in a culturally diverse democratic society in an interdependent global network.

What a CCS student will know and be able to do in Social Science:

- Demonstrate knowledge of the interrelation and global nature of:
 - History
 - Government
 - Economics
 - Geography
 - People in societies
 - Research and data gathering
- Demonstrate an appreciation of one’s identity and role as a Christian citizen in a democratic society and in the global community, and demonstrate competence in reasoned group decision making, resolving conflict, and cooperation to promote the common good.
- Demonstrate knowledge of the significant persons and events of history, the patterns of continuity and causes of change, the value of cultural diversity, and awareness of historical perspective.
- Explain and apply the relationship between human and natural environment, the characteristics of the earth’s ecosystems and human behavior.
- Use geographic tools and technologies; know the location of places, geographic features, and patterns of the environment.

Courses

World History

03340400

The World History course is an overview of the history of the world from creation to the beginning of the 21st century. Students are expected to analyze world events and their historical and contemporary causes through targeted practice in reading, thinking and writing like a historian. Students study biblical and extra-biblical history, religion and the philosophy of the times. Course content focuses on the western Judeo-Christian heritage, while also surveying the contributions of Asian, African, and Latin American cultures. Students participate in the study of the great men of history and their accomplishments, life-changing events, and cultural life and achievements of the major empires and nations. Threaded throughout this course is the truth that God has a plan for man and History is a record of that plan.

US History

03340100

The US History course provides students the opportunity to examine events, people, places, culture and historical themes from the discovery of America to the present. The course targets the topics of Industrialization, Urbanization and Immigration, Imperialism, the Progressive Era, World War I, the Roaring Twenties, the Great Depression and the New Deal, World War II, the Cold War, the Civil Rights movement, the Vietnam War, and Domestic and Foreign Affairs from the Nixon Administration through current times. Additional topics include the development of the United States, both inwardly as a nation and outwardly as an international power as they investigate the uniqueness of American government, the Constitution and the development of the free enterprise system.

American Government

03330100

The American Government course is a comprehensive study of the structure and function of government and politics in America. The course content provides students with a working knowledge of the branches of the American government as well as an understanding of how government affects the lives of people on a daily basis. Students will study the intentions and hopes of the Founding Fathers and will study the influence and importance of the Declaration of Independence and the United States Constitution upon American society. Through simulation, discussions, and collaborative projects, students will become more aware of the changes made in our present government and the working of the democratic process. The overarching objective of this course is to inform and prepare students for their role and Christian responsibility as active and knowledgeable participants in this democratic process. This course is a one semester half-credit course.

Economics

03310300

The Economics course is intended to give students a thorough understanding of economics as it applies to the economy on a macro level. The course content covers the basic characteristics of national and international economic systems, including currency, banking, and monetary policy. Students will develop an understanding of the economic principles that influence business decisions and analyze the roles of governments and individuals in a capitalist economy. Students will further develop an understanding of the need for ethical standards for business leaders, producers, and consumers. It is expected that students will grow in understanding, knowledge, and wisdom as they embrace the idea of Christian self-government and character necessary to apply the principles of Scripture to resolve spiritual and economic principles of unlimited wants with limited resources. This course is a one semester half-credit course.

Economics Honors

03310300

The Economics Honors course is an advanced course that is most often paired with the Advanced Placement® US Government course. It is designed to provide students with a strong understanding of economics as it applies to the economy on a macro level. In addition to covering the basic characteristics of national and international economic systems including currency, banking, and monetary policy, the content for this advanced level course requires significant research and outside reading. Students develop an in-depth understanding of the

economic principles that influence business decisions and analyze the roles of governments and individuals in a capitalist economy. Students will further develop an understanding of the need for ethical standards for business leaders, producers, and consumers. It is expected that students will grow in understanding, knowledge, and wisdom as they embrace the idea of Christian self-government and character necessary to apply the principles of Scripture to resolve spiritual and economic principles of unlimited wants with limited resources. This course is a one semester half-credit course.

Advanced Placement® Human Geography

A3360100

The Advanced Placement® Human Geography course is designed to introduce students to the systematic study of patterns and processes that have shaped how people understand, use, and change the Earth's surface. This systematic style of study will be applied to cultural geographic topics including population, migration, language, religion, ethnicity, political geography, economic development, industry, agriculture, and urban geography. This course will require much time outside of class in individual study and critical writing, and a willingness to go above and beyond common strategies of study. Students are required to sit for the AP Human Geography exam in May.

Advanced Placement® World History: Modern

A3370100

The Advanced Placement® World History: Modern course is a rigorous study that emphasizes the chronological frame of the period 1200 to the present. The course provides six themes that students explore throughout the course in order to make connections among historical developments in different times and places: humans and the environment, cultural developments and interactions, governance, economic systems, social interactions and organization, and technology and innovation. Students are expected to be self-determined and to demonstrate consistently a willingness to go above and beyond common strategies of study. Students sit for the AP World History exam in May.

Advanced Placement® Psychology

A3350100

The Advanced Placement® Psychology course is designed to introduce students to the systematic and scientific study of the behavior and mental processes of human beings and other animals. Students are exposed to the psychological concepts, principles, theories, and phenomena associated with each of the major subfields within psychology, ethical codes, and methodology used by psychologists in their science and practice.

Course objectives:

- To prepare to do acceptable work on the national AP Psychology exam given in May
- To exemplify the process of inquiry
- To develop critical thinking skills from the objective evaluation of psychological theory
- To place facts into psychologically major concepts
- To devise a simple research project
- To interpret and generalize data from psychological abstracts and published reports
- To build reading, writing, and discussion skills
- To apply psychological principles when they encounter them in everyday situations

Advanced Placement® United States History

A3340100

The Advanced Placement® United States History course prepares students for the national Advanced Placement examination in United States history. A college-level textbook is used, supplemented by important and sometimes controversial articles excerpted from historical journals and written by the most prominent historians in the field. Students are required:

-
- To gain a thorough factual knowledge of North American/United States history from 1491 through the turn of the 21st Century
 - To practice and improve Long Essay Question, Document Based Question, and Short Answer – writing skills
 - To learn how to interpret primary sources, secondary sources, maps, charts, graphs, political cartoons, and provide meaningful analysis
 - To write a research paper showing that they have obtained in depth knowledge of an important topic in United States history
 - To be able to describe changes in United States political, economic, geographic history from colonial times through the turn of the 21st Century

Advanced Placement® American Government

A3330100

The Advanced Placement® American Government course in United States Government and Politics explores the workings of the United States government. Students will explore public policy, civil rights and civil liberties, the role of political parties, interest groups and the media in politics, political beliefs and behaviors, as well as the responsibilities, relationships, and power of the three branches of government. This course is a one semester half-credit course.

World Languages (Languages Other Than English)

Vision Statement

Students at CCS, through the intentional study of World Languages, will appreciate the unlimited capabilities that God gives all peoples for glorifying and serving him through language. They will recognize that the body of Christ is made up people of “every tribe and language and people and nation” (Revelation 5:9). Students will gain an awareness of both their own language and culture as well as that of the language and culture targeted. Students will comprehend, analyze, and critique texts and media while demonstrating competence in listening, speaking, reading, and writing in the targeted language. Students will become aware of the opportunities for practical application of their language knowledge in communities, in ministry, and in commerce.

What a CCS student will know and be able to do in World Languages (Languages Other Than English):

- Engage in conversation, express feelings and emotions, and exchange ideas.
- Understand and interpret written and spoken language on a variety of topics.
- Present information, concepts, and ideas to an audience of listeners or readers on a variety of topics.
- Understand the relationship between the perspectives and products of the culture studied and utilize the knowledge to recognize cultural practices.
- Reinforce the knowledge of other disciplines through foreign language.
- Acquire information and perspective available only through the world language and within the target culture.
- Recognize that languages have different patterns of communication and apply this knowledge to his/her own culture.
- Recognize that cultures have different patterns of interaction and apply this knowledge to his/her culture.

Courses

Spanish I

03440100

The Spanish I course is an introductory course designed for the non-native Spanish speaker. It covers vocabulary, grammatical concepts, and verb tenses to prepare students to use the language practically. Students are expected to communicate, read, and write in the Spanish tenses they learn. *This advanced course is offered at the Middle School level for students demonstrating a history of success and interest as evidenced through STAR assessments.

Spanish II

03440200

The Spanish II course covers vocabulary, grammatical concepts, and verb tenses to prepare students to communicate effectively with Spanish-speakers. Students are expected to communicate, read, and write in Spanish, speaking only Spanish in class. Students will be familiar with the formation, translation, and use of all verb forms in the indicative by the end of this course.

Spanish III Honors03440300

The Spanish III Honors course reviews all concepts taught in Spanish I and II. Students continue practicing the skills of listening, speaking, and writing. By reading and discussing short stories and short novels, students will increase their communication skills to the point where they should be understood by a native Spanish-speaker. Study of the subjunctive will enable students to understand literary works and to express themselves in a grammatically correct manner. Verbal proficiency is a course goal.

Advanced Placement® Spanish Language and CultureA3440100

The Advanced Placement® Spanish Language and Culture course is intended to challenge the exceptional Spanish student, requiring extraordinary dedication, a strong commitment to learning, and an excellent work ethic. Students must be willing to put in the time to prepare for class each day and demonstrate the ability to work independently in and outside the classroom. The AP Spanish Language examination measures the student's proficiency in each of the modes: interpersonal, presentational, and interpretive. AP Spanish students are required to use a variety of grammatical structures and vocabulary in authentic contexts to compare, contrast, describe, and discuss the products, practices, and perspectives of the Spanish-speaking world. The ACTFL proficiency target for this class is Intermediate High/Advanced Low. Some students may reach Advanced Low. Intermediate High students can consistently describe, explain, and narrate in all major time frames, distinguish between formal and informal registers, consistently use complex sentences to express themselves in paragraph-length discourse with advanced transitions and connectors, and occasionally discuss hypothetical situations. Advanced Low students can easily describe, explain, and narrate in all major time frames, distinguish between and use formal and informal discourse, consistently and comfortably write paragraphs with advanced connectors and transitions, make conjectures and discuss hypothetical situations, handle unexpected turns of events and situations with complications, and easily express their point of view on a wide variety of topics.

Fine Arts: Performing Arts Music

Vision Statement

CCS Performing Arts provides students a stage to reflect the glory of their Creator. Students become proficient in elements that include a) kinesiology, b) technique c) expression, d) stage etiquette, e) communication, f) musical language, g) cultural studies, and f) performance practice. Students will develop a lifelong love of music, performance, and study through participation in the musical arts.

What a CCS student will know and be able to do in Music:

- Sing, alone and with others, a varied repertoire of music
- Perform on instruments, alone and with others, a varied repertoire of music
- Improvise melodies, variations, and accompaniments
- Compose and arrange music within specific guidelines
- Read and notate music
- Listen to, analyze, describe music
- Evaluate music and music performance
- Understand the relationship between music, the other arts, and disciplines outside the arts
- Understand music in relation to culture and history
- Apply appropriate personal and Christ-centered evaluative criteria to music and musical performances that acknowledge music as an art form embracing diversity
- Apply appropriate etiquette as an audience member and/or performer
- Research and explain, using various technologies including print, electronic, and recordings, the relationship between music, history, and culture
- Use music as a personal and interpersonal expression to honor God

Courses

Choir I 03150900

The Choir I course is a mixed chorale ensemble in which students strive to build a musical community and improve musical language, ensemble singing, musical style, and performance. The repertoire consists of literature from all periods, with a balance of cultural, historical, and sacred literature.

Choir II 03151000

Building on the skills strengthened in Choir I, the Choir II course is a mixed chorale ensemble in which students strive to build a musical community and improve musical language, ensemble singing, musical style, and performance. The repertoire consists of literature from all periods, with a balance of cultural, historical, and sacred literature.

Choir III Honors 03151100

Building on the skills honed in Choir I-II, the Choir III Honors course is a mixed chorale ensemble in which students strive to build a musical community and improve musical language, ensemble singing, musical style, and performance. The repertoire consists of literature from all periods, with a balance of cultural, historical, and sacred literature.

Choir IV Honors 03151200

Building on the skills honed in Choir I-III, the Choir IV Honors course is a mixed chorale ensemble in which students strive to build a musical community and improve musical language, ensemble singing, musical style, and performance. The repertoire consists of literature from all periods, with a balance of cultural, historical, and sacred literature.

Band I 03150100

The Band I course focuses on the study of music through the exploration of the woodwind, brass, and percussion instruments and develops the student's ability on his or her respective instrument. Additional performance opportunities are offered through marching band and concert band.

Band II 03150200

The Band II course includes the study of music through the exploration of the woodwind, brass, and percussion instruments. It is designed to develop further the student's ability on his or her respective instrument. Additional performance opportunities are offered through marching band and concert band.

Band III Honors 03150300

The Band III Honors course provides experienced music students the opportunity to further the development of the skills as acquired in Band I and II, continuing the exploration of the woodwind, brass, and percussion instruments. Additional performance opportunities are offered through marching band and concert band.

Band IV Honors 03150400

The Band IV Honors course provides experienced music students the opportunity to develop further the musical skills acquired in Band II and III, continuing through the exploration of the woodwind, brass, and percussion instruments. Additional performance opportunities are offered through marching band and concert band.

Percussion 03151700

The Percussion course provides students with the opportunity to study music through the exploration of the percussion instruments. Students will explore and experience various styles of music through the use of reading, performing, and discussing different types of music as they relate to the musical challenges of playing percussion.

Piano I 03154200

The Piano I course provides students with the opportunity to study music through the exploration of the piano. Students will explore and experience various styles of music through the use of reading, performing, and discussing different types of music as they relate to the musical challenges of playing the piano. This course is designed for students with little or no experience in playing a piano.

Piano II 03154300

The Piano I course provides students with the opportunity to study music through the exploration of the piano. Students will explore and experience various styles of music through the use of reading, performing, and discussing different types of music as they relate to the musical challenges of playing the piano. This course is designed for students with little or no experience in playing a piano.

Guitar I 03154600

The Guitar I course is designed specifically for beginning students who desire to play acoustic guitar. The course will cover all fundamental skills of playing guitar, including music literacy. Students will explore and experience various styles of music through the use of reading, performing, and discussing different types of music as they relate to the musical challenges of

playing the guitar.

Guitar II

03154700

The Guitar II course is designed for students who desire to hone their acoustic guitar playing skills. The course will cover all fundamental skills of playing guitar, including music literacy. Students will explore and experience various styles of music through the use of reading, performing, and discussing different types of music as they relate to the musical challenges of playing the guitar.

Advanced Placement® Music Theory

A3150200

The Advanced Placement® Music Theory course is an intensive course dedicated to the study of all aspects of tonal theory. The course culminates with the Advanced Placement test in Music Theory in the spring. Students will learn the fundamentals of harmony, part-writing, and basic instrumentation. Additionally, students will learn to sight sing music, take melodic, rhythmic, and harmonic dictation and study both large and smaller musical forms.

Worship Arts

The Worship Arts course is designed to equip students with the basic knowledge, technical skills, and spiritual understanding needed to lead worship. Course topics include spiritual foundations of worship, mechanics of leading worship, set list creation, team management, rehearsals, and the opportunity to lead worship for the Secondary School chapels.

Fine Arts: Performing Arts Theatre

Vision Statement

CCS Performing Arts provides students a stage to reflect the glory of their Creator. Students become proficient in elements including a) kinesiology, b) expression, c) stage presence, d) stage craft, e) oral communication, f) tone, g) pitch, h) rhythm, i) pace, and j) performance. Students are encouraged to develop a lifelong love of music and theatre through participation in performance and study.

What a CCS student will know and be able to do in Theatre:

- Act by developing and sustaining characters in improvisation and formal or informal productions
- Direct by interpreting dramatic texts and organizing and conducting rehearsals for formal and informal productions.
- Design, conceptualize, and interpret formal and informal productions.
- Improvise, write, and refine scripts based on heritage, imagination, literature, history, and personal experiences.
- Understand context by analyzing the role of theatre, film, television, and electronic media in the past and present.

Courses

Theatre I 03250100

The Theatre I course provides a variety of opportunities for students to become aware of the aesthetic values found in God, life, people, nature, and art. This course is designed to be a nurturing, student-centered educational experience within a clearly Christian philosophical framework which addresses the creative process of character development, movement, voice, set design, effective interpersonal communication, makeup, and costumes. Vocal and physical performance skills will be exercised and developed through theatre games, playwriting, and scene work. In addition, coursework includes how to build a character, the basics of script analysis and theatre terminology. Collaboration and ensemble work provide the basis of the class.

Theatre II 03250200

The Theatre II course provides numerous opportunities for students to become aware of the aesthetic values found in God, life, people, nature, and art. This course is designed to continue to be a nurturing, student-centered educational experience within a clearly Christian philosophical framework which addresses the creative process of character development, movement, voice, set design, makeup, and costumes. The goal is to continue to nurture each student's growth as energetic, motivated individuals who possess God-given creative talents that, as developed, lead to healthy interpersonal relationships and effective communication.

Theatre III Honors 03250300

The Theatre III Honors course is an advanced theatre course, meant to provide an environment akin to a college or a semi-professional theatre company. Students will study script analysis, theory, and criticism, directing and design, advanced movement and vocal technique, and audition technique. Each student will have the opportunity to participate in some way (acting, directing, design, marketing, tech, etc.) in the One Act play and other performances. The class functions as a theatre ensemble; students learn and apply the important skills of collaboration, cooperation, and creative problem-solving.

Theatre IV Honors

03250400

The Theatre IV Honors course is an advanced theatre course, meant to provide an environment akin to a college or a semi-professional theatre company. Students will study script analysis, theory, and criticism, directing and design, advanced movement and vocal technique, and audition technique. Each student will have the opportunity to participate in some way (acting, directing, design, marketing, tech, etc.) in the One Act play and other performances. The class functions as a theatre ensemble; students are provided to learn and apply the important skills of collaboration, cooperation, and creative problem-solving.

Theatre Production

03250700

The Theatre Production course provides students with the opportunity to study theatre in relation to the total theatrical and rehearsal process. Students will engage in learning a broad range of concepts, activities and skills that include elements from both the technical and acting sides of theatre. The culmination of the course will be theatrical productions for the public.

Technical Theatre I

103250500

The Technical Theatre I course covers the technical aspects of theatre. Students will understand and apply the skills involved with interpreting, designing, and running a theatrical production. Topical concepts taught include: theatrical process, safety, stage management, principles of design, lighting, scenic design, sound design, makeup, and prop construction. Students will utilize the Black Box Studio's sound and lighting systems. Shop hours and/or participation in productions may be required.

Technical Theatre II

03250600

The Technical Theatre II course extends the learning of the technical aspects of theatre as introduced in Technical Theatre I. Students will continue to deepen their understanding and application of skills involved with interpreting, designing, and running a theatrical production. Topical concepts taught include the theatrical process, safety, stage management, principles of design, lighting, scenic design, sound design, makeup, and prop construction. Students will utilize the Black Box Studio's sound and lighting systems. Field trips to local theatres and the JHM production facilities provide students with practical, hands-on, experience-based learning. Shop hours and participation in productions are required.

Technical Theatre III Honors

03251100

The Technical Theatre III Honors course further extends the learning of the technical aspects of theatre. Students will continue to deepen their understanding and application of skills involved with interpreting, designing, and running a theatrical production. Topical concepts taught include the theatrical process, safety, stage management, principles of design, lighting, scenic design, sound design, makeup, and prop construction. Students will utilize the Black Box Studio's sound and lighting systems. Field trips to local theatres and the JHM production facilities provide students with practical, hands-on, experience-based learning. Shop hours and participation in productions are required.

Technical Theatre IV Honors

03251200

The Technical Theatre IV Honors course provides experienced students the opportunity to experience further and learn through a variety of technical aspects of theatre. Students will continue to deepen their understanding and application of skills involved with interpreting, designing, and running a theatrical production. Topical concepts taught include the theatrical process, safety, stage management, principles of design, lighting, scenic design, sound design, makeup, and prop construction. Students will utilize the Black Box Studio's sound and lighting systems. Field trips to local theatres and the JHM production facilities provide students with practical, hands-on, experience-based learning. Shop hours and participation in productions are required.

Fine Arts: Visual Arts

Vision Statement

The CCS Visual Arts curriculum provides opportunities for hands-on experiences, critical thinking, active problem solving, application of persistence, practice, cooperative learning, technology, and creative graphic expression. The student develops a biblical worldview through the study and application of visual art. Students come to understand that the Lord is actively at work in all areas of life. By focusing on the world's beauty through the eyes of the Lord, the creator, students are commissioned to demonstrate creativity and harmony. Students develop a variety of methods and forms of expression for their artistic talents.

What a CCS student will know and be able to do in Visual Arts:

- Understand and apply media, techniques, and processes.
- Create and communicate a range of subject matter, symbols, and ideas using knowledge of structures and functions of visual arts.
- Understand the visual arts in relation to history and culture.
- Assess, evaluate, and respond to the characteristics of works of art.
- Make connections between the visual arts, other disciplines, and the real world.
- Demonstrate the ability to process information, reason clearly, reflect, and think critically.
- Demonstrate adaptability in the use of technology to produce, store, and view art.

Courses

Art I 03500100

The Art I course acknowledges that God is the original Creator and that he gave man the ability to produce and appreciate beauty while honoring him with his artistic expression. Art I provides students with the opportunity to observe God's creativity while creating their own artwork within the drawing, painting, and ceramics media.

Art II 03500100

The Art II course builds on the skills learned in Art I and prepares students for the advanced work of AP visual art courses. Students will work toward the mastery of a variety of drawing, painting, and ceramic pieces.

Advanced Placement® Drawing A3500300

The Advanced Placement® Drawing course reflects course requirements present in a 100-level college art course. Students work within the guidelines of drawing. Students will produce at least 30 superior quality original artworks, techniques and styles of their choosing, with instructor guidance. Additionally, students will maintain an art journal, conduct critiques, and assemble a professional presentation of their work. The course culminates in a portfolio submission to the AP College Board that consists of 12-20 finished pieces. Students must complete a new artwork every two weeks in order to meet the requirements of the AP portfolio.

Advanced Placement® 2D Art and Design A3500400

The Advanced Placement® 2D Art and Design course reflects course requirements present in a 100-level college art course. Students work within the guidelines of 2-dimensional media. Students will produce several superior quality original artworks, techniques and styles of

their choosing, with instructor guidance. Additionally, students will maintain an art journal, conduct critiques, and assemble a professional presentation of their work. The course culminates in a portfolio submission to the AP College Board that consists of several finished pieces.

Advanced Placement® 3D Art and Design

A3500500

The Advanced Placement® 3D Art and Design course reflects course requirements present in a 100-level college art course. Students work within the guidelines of 3-dimensional media. Students will produce several superior quality original artworks, techniques and styles of their choosing, with instructor guidance. Additionally, students will maintain an art journal, conduct critiques, and assemble a professional presentation of their work. The course culminates in a portfolio submission to the AP College Board that consists of several finished pieces.

Crafting/DIY

Crafting/DIY is a life skills oriented creative art course. It is designed to allow students to find the fun in their creative, God-given, hidden abilities. The course is open to a wide range of possibilities: projects for personal use such as creating items out of clay, paint, fabric, string; projects that serve others such as theatre arts set design; projects such as crafts, sewing, or DIY.

Principles of Arts, Audio/Video Technology, and Communications

This course focuses on designing, producing, exhibiting, performing, writing, and publishing multimedia content including visual and performing arts and design, and entertainment services. Students must demonstrate a creative aptitude, a strong background in computer and technology applications, a strong academic foundation, and proficiency in oral and written communication.

Physical Education

Vision Statement

CCS's Physical Education program focuses on the whole child by fostering general wellness as well as four critical skills for the 21st century learner: collaboration, communication, critical thinking, and creativity. Students receive instruction in mental, physical, social, and spiritual health. Students are encouraged and guided to develop positive self-esteem, to accept themselves and others, to handle stress, to solve problems, and to exercise leadership. By learning about body systems, nutrition, exercise, and by practicing physical activities, the students embrace health and wellness as a lifelong goal. Social health includes working within diverse relationships to share feelings with friends, family, and peers. Spiritual health places Christ at the center of a Christian's life, body, and healthy habits for lifelong Christian service. "Do you not know that your bodies are temples of the Holy Spirit, who is in you, whom you have received from God? You are not your own; you were bought at a price. Therefore honor God with your bodies" (1 Corinthians 6:19-20). Students are encouraged to seek physical, mental, and social challenges in life utilizing faith-informed, responsible choices.

In Physical Education, a CCS student will know and be able to:

- Demonstrate knowledge of human anatomy and body systems
- Demonstrate competency in many movement forms and proficiency in a few forms of physical activity
- Apply concepts and principles of human movement to the development of motor skills and the learning of new tasks
- Analyze the benefits of regular participation in physical activity
- Achieve and maintain a health-enhancing level of physical fitness
- Demonstrate responsible personal and social behavior in physical activity
- Understand how participating in physical activity promotes inclusion and an understanding of the abilities and cultural diversity of people
- Understand that physical activity provides the opportunity for enjoyment, challenge, self-expression, and communication
- Honor and glorify God in sports and physical activities
- Demonstrate an understanding of effective warm-up techniques
- Explain key elements to maintain and promote personal health and wellness
- Accept personal responsibility for seeking total health for self and others through recognizing God's plan for human life
- Collaborate with other students to reach a goal
- Share thoughts, questions, ideas, and solutions
- View problems in a new way, linking learning across subjects and disciplines

Courses

Health

03810100

The Health course is designed to provide students the opportunity a) to develop the knowledge of God as the Creator of human existence and the environment, b) to understand that maintaining a healthy body and mind requires a specific way of living, c) to foster in students a desire for spiritual health which will require basic Christian disciplines, and d) to help students develop an attitude of respect for their bodies as well as an attitude of responsibility for their own actions. Instructing and guiding students to develop a healthy lifestyle is the overarching design of this course. This course is a one semester half-credit course. *This course is offered at the Middle School level.

Strength and Conditioning I

PES00000

The Strength and Conditioning I course is designed to enhance athletic performance and physical conditioning. This course provides athletes an opportunity to become involved with a general workout to improve their overall well-being. Strength and Conditioning I focuses on improving both the health and skill related components of physical fitness. Those components are cardiovascular fitness, body composition, flexibility, muscular strength, muscular endurance, coordination, agility, reaction time, balance, speed, and power.

Strength and Conditioning II

PES00001

The Strength and Conditioning II course is designed to enhance athletic performance and physical conditioning. This course provides athletes an opportunity to become involved with a general workout to improve their overall well-being. Strength and Conditioning II focuses on improving both the health and skill related components of physical fitness. Those components are cardiovascular fitness, body composition, flexibility, muscular strength, muscular endurance, coordination, agility, reaction time, balance, speed, and power.

Strength and Conditioning III Honors

PES00002

The Strength and Conditioning III Honors course is designed to enhance athletic performance and physical conditioning. This course provides athletes an opportunity to become involved with a general workout to improve their overall well-being. Strength and Conditioning III Honors focuses on improving both the health and skill related components of physical fitness. Those components are cardiovascular fitness, body composition, flexibility, muscular strength, muscular endurance, coordination, agility, reaction time, balance, speed, and power.

Strength and Conditioning IV Honors

PES00003

The Strength and Conditioning IV Honors course is designed to enhance athletic performance and physical conditioning. This course provides athletes an opportunity to become involved with a general workout to improve their overall well-being. Strength and Conditioning IV Honors focuses on improving both the health and skill related components of physical fitness. Those components are cardiovascular fitness, body composition, flexibility, muscular strength, muscular endurance, coordination, agility, reaction time, balance, speed, and power.

Athletics

This course provides athletes an opportunity to train in their sport(s).

General Electives

Courses

Athletic Training I

The Athletic Training I course is designed to be an introduction to the care and prevention of athletic injuries, and the duties associated with being an athletic trainer. The course emphasizes the anatomy of the human body in relation to injuries and rehabilitation.

Athletic Training II

The Athletic Training II course is designed to be a continuation of the care and prevention of athletic injuries, and the duties associated with being an athletic trainer. The course emphasizes the anatomy of the human body in relation to injuries and rehabilitation.

Business Law

13011700

The Business Law course is designed to provide students with an overview of our legal system, including statutes and regulations that affect businesses, families, and individuals in a variety of ways. Knowledge of business law is particularly useful because all students eventually assume the role of citizen, worker, and consumer in society. Businesses operate in an increasingly global environment where the laws of different governments and judicial systems frequently conflict. As a result, business students must include in their academic preparation a basic knowledge of the legal system and how business law impacts commerce both nationally and internationally. Students must understand how and why local, state, and federal law works in conjunction with international law. Students also need to be able to distinguish unethical behavior from illegal behavior and to understand the rising importance of social responsibility as an aspect of corporations and organizations in a global society. One of the most crucial changes in business law involves teaching students about the efforts of the courts and the legislature to deal with how technology has impacted the law, particularly with regard to computers and the Internet.

Entrepreneurship

13034400

The Entrepreneurship course is aligned with the Academy of Business. Students are provided the opportunity to explore how to recognize opportunities for starting a business and how to evaluate and understand markets. Students develop an understanding of planning and maintaining a profitable business through guest speakers, problem solving, and case studies.

Family and Consumer Science 4H

This course lays the foundation for university studies in Family/Consumer Education, Psychology, Education, Biology, Animal Science, and Business. Topics include child development, health and safety, family relations, consumer observation and comparison, personal finance, fashion design and sewing, housing, nutrition and food preparation, sustainability, and animal care/husbandry. The course would also directly cover financial growth, market trends, variabilities, business etiquette, customer service abilities, public speaking, and community services.

Financial Mathematics

1301800

The Financial Mathematics course provides students with an understanding of personal money management. Students are expected to apply critical thinking skills to analyze personal financial decisions based upon the current and projected economic factors. Math and calculations related to real world experiences include some of the following: net pay, income taxes, calculate mortgage payment, property taxes, mortgage insurance, closing cost, interest cost, etc. A graphing calculator is utilized throughout the course.

SAT Math Prep

This math intensive course prepares students to perform on the Math section of the SAT exam.

Informational Literacy

Vision

As a result of a CCS education, students will demonstrate familiarity with and competence in accessing information resources whether print, electronic, or media, within or beyond their immediate learning community. The Library/Media Center provides students access to an enriched environment of print and non-print resources. Students will construct meaning from information, create quality products, learn independently, participate as learners both independently and collaboratively, and utilize informational technologies responsibly and ethically.

The school library/media center should be a major learning laboratory serving the entire school. In this age of 'information explosion' learning how to learn should be one of the most important emphases in the library." (ACSI Standard)

What a CCS student will know and be able to do using Information Literacy:

- Access information efficiently and effectively
- Evaluate information critically and competently
- Use information accurately and creatively

Middle School Course Descriptions

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Sixth Grade Academic Core Courses

Bible 6

The Bible 6 course is designed to present an overview of the Bible in chronological order. As students take a journey through the Bible, they will obtain a foundational understanding as they learn the names of the sixty-six books, memorize key scripture passages, and learn basic principles that will prepare them for developing Christian worldview thinking and sound biblical interpretation.

English 6

The English 6 course stresses the fundamentals of grammar, composition, literature, vocabulary, and spelling. Students learn that language is a gift from God, a tool representing thought. Through a systematic approach of grammar, composition, and mechanics of writing, students will be guided in the learning of new concepts throughout the year. The literature component of this course concentrates on building comprehension skills, drawing conclusions, predicting outcomes, and understanding literary terms that will ensure a strong foundation for success in future English courses.

Mathematics 6

The Mathematics 6 course is an incrementally taught program in which students will continue to develop their understanding and skills in recognizing number patterns. Students will master the concepts of fractions, decimals, percentages, and measurements. Upon completing this course, students will be able to recognize and solve equations, ratios, and proportions.

Mathematics 7

The Mathematics 7 course is foundational for the student's understanding and success in high school mathematics. Upon completion of this course, the student will have mastery over basic facts of arithmetic, basic unit conversions, all operations involving fractions and decimals, together with a firm understanding of exponents. Other topics covered in this course include order of operations, evaluation of expressions, place value, signed numbers and square roots.

Pre-Algebra

The Pre-Algebra course prepares students for the study of algebra. It is expected that students will develop understanding and skills using the strategies and tools of algebra: operations with positive and negative numbers, solving equations, recognizing and using factors, factoring, recognizing and solving ratios, equations and inequalities, powers, percent, functions and functional notation and graphing. An exposure to right angles, including the Pythagorean Theorem, perimeters, areas, and volumes are also included as topics in this course.

Integrated Science 6

The Integrated Science 6 course introduces students to a variety of sciences: life science, physical science, space and astronomy, technology and earth science. Students will develop a rich knowledge of science and the natural world as they become familiar with different modes of scientific inquiry, rules of evidence, ways of formulating questions and proposing explanations, as well as learning of the diverse ways scientists study the natural world. As students survey these areas of science investigating new concepts, they will be challenged to develop their reasoning skills based on God's Word.

World History 6

The World History 6 course provides students with an overview of the history of the world from creation to the beginning of the 21st century. Through the study of history, geography, and economics, students are introduced to a variety of cultures and their belief systems.

Sixth Grade Elective Courses

Middle School Athletics 6

The Middle School Athletics 6 course enables student athletes to honor and glorify God through participation in interscholastic athletics. Each student athlete's learning experience focuses on the fundamental skills and strategies of individual and team sports, combined with developmentally appropriate components of muscular strength and endurance, speed, agility, and cardiovascular fitness. Tryouts may be required for participation.

Middle School Physical Education 6

The Middle School Physical Education 6 course enables students to honor and glorify God with their bodies through further development of their physical potential. Students will learn basic physical fitness concepts and practice game movements that include consistent skill repetition. Students will also participate in modified game play leading to a greater knowledge of the various sports' skill content.

Middle School STEAM

The Middle School STEAM course is a science, technology, engineering, art, and math class that orbits around the application of STEAM principles to the domain of robotics.

Middle School DEAR

The Middle School DEAR course is a reading intensive course. Designed for the avid reader, the student who needs to improve his/her reading comprehension, and everyone in between, Drop Everything And Read provides extended periods of time for student reading.

Middle School Art

The Middle School Art course introduces students to various media and techniques while building upon their knowledge and skills learned in previous art courses. Students will utilize 2-D and 3-D media and be exposed to various artists and art styles.

Middle School Beginner Percussion

The Middle School Beginner Percussion course provides students the opportunity to study music through the exploration of percussion instruments. Students explore and experience various styles of music through reading, performing, and discussing different types of music, and develop an appreciation for the beauty of music. No experience is required. Students must provide their own instrument.

Middle School Beginner Band

The Middle School Beginner Band course provides students the opportunity to study music through the exploration of brass and woodwind instruments. Students explore and experience various styles of music through reading, performing, and discussing different types of music, and develop an appreciation for the beauty of music. No experience is required. Students must provide their own instrument.

Middle School Chorus

The Middle School Chorus course is a mixed vocal ensemble designed to create a singing community for music learning, community development, and worship expression. Students will explore musical language, singing repertoire, vocal and choral techniques, and Christian worldview through cultural, historical, and sacred songs. Placement or audition is required.

Middle School Theatre I

The Middle School Theatre I course is an introduction to beginning theatre. Students learn and experience the fundamentals of theatre as they are introduced to acting, technical and set design, and the rehearsal process. No experience required.

7

Seventh Grade Academic Core CoursesBible 7

The Bible 7 course presents the Book of John as a case study of the Life of Christ. Topics of customs, geography, dates, seasons, time, and weather are included and examined to help students relive the exciting days when Jesus walked the earth ministering to the people of Israel. Students become more acquainted with a visible and personal Jesus Christ and continue to develop their personal relationship with him.

English 7

The English 7 course is designed to incorporate all aspects of communication: reading, writing, listening, speaking, vocabulary, and literature. Students analyze the parts of speech with their functions and the structure of sentences. They are expected to organize thoughts by formulating paragraphs and by developing paragraphs into essays. Creative compositions in the four styles of writing will be composed through a variety of methods. As they broaden their vocabulary usage and comprehension, students recognize the patterns and principles of communication that God has communicated to us. Guided reading further develops students' comprehension of conflicts and resolution of characters leading them towards a deeper understanding of a Christian perspective of literature.

English 7 Honors

The English 7 Honors course consists of writing and class discussion and focuses more rigorously on content, organization, and style. The English 7 Honors course is designed to incorporate all aspects of communication: reading, writing, listening, speaking, vocabulary, and literature. Students analyze the parts of speech with their functions and the structure of sentences. They are expected to organize thoughts by formulating paragraphs and by developing paragraphs into essays. Creative compositions in the four styles of writing will be composed through a variety of methods. As they broaden their vocabulary usage and comprehension, students recognize the patterns and principles of communication that God has communicated to us. Guided reading further develops students' comprehension of conflicts and resolution of characters leading them towards a deeper understanding of a Christian perspective of literature.

Mathematics 7

The Mathematics 7 course is foundational for the student's understanding and success in high school mathematics. Upon completion of this course, the student will have mastery over basic facts of arithmetic, basic unit conversions, all operations involving fractions and decimals, together with a firm understanding of exponents. Other topics covered in this course include order of operations, evaluation of expressions, place value, signed numbers and square roots.

Pre-Algebra

The Pre-Algebra course prepares students for the study of algebra. It is expected that students will develop understanding and skills using the strategies and tools of algebra: operations with positive and negative numbers, solving equations, recognizing and using factors, factoring, recognizing and solving ratios, equations and inequalities, powers, percent, functions and functional notation and graphing. An exposure to right angles, including the Pythagorean Theorem, perimeters, areas, and volumes are also included as topics in this course.

Algebra I*

03100500

The Algebra I course is designed to provide the foundation for more advanced mathematics courses and to develop problem-solving skills. Topics include variables, structure and properties of the real number system, first-degree equations and inequalities, relations, functions, graphs, systems of linear equations and inequalities, polynomials, integer exponents, rational expressions, irrational numbers, radical expressions, quadratic equations, and

yearlong work on problem solving. A graphing calculator is utilized throughout the course. *This course is offered at the Middle School level for students who have demonstrated a history of success in mathematics as evidenced through STAR assessments.

Algebra I Honors*

03100500

The Algebra I Honors course is an advanced mathematics course which is designed to address the needs of students who desire to move through the foundational elements in a more rapid manner to focus on the deeper levels of knowledge and application of skills. A graphing calculator is utilized throughout the course. *This advanced course is offered at the Middle School level for students demonstrating a history of superior mathematic success and interest as evidenced through STAR assessments.

Life Science

The Life Science course is designed to provide students with an understanding of cell structure, the origin of life, heredity, micro and plant biology, the animal kingdom, and the environment. Students will develop critical thinking skills and proper experimental skills needed for success in upper level science courses. Based on principles taught from God's Word, students continue to discover truth as they explore God's amazing creation.

Texas History

The Texas History course examines the geographical composition and cultural history of Texas. Students develop an understanding of the early native Texans, the exploration of Texas and the eventual colonization of the state. Students will identify important people and events that shaped the rich heritage of the state of Texas. They will be expected to understand how events, issues, lifestyles, beliefs, and relationships between Texas and other countries have shaped both the state and country to be what it is today.

Seventh Grade Elective Courses

Middle School Athletics 7-8

The Middle School Athletics 7-8 course enables student athletes to honor and glorify God through participation in interscholastic athletics. Each student athlete's learning experience focuses on the fundamental skills and strategies of individual and team sports, combined with developmentally appropriate components of muscular strength and endurance, speed, agility, and cardiovascular fitness. Tryouts may be required for participation.

Middle School Physical Education 7-8

The Middle School Physical Education 7-8 course enables students to honor and glorify God with their bodies through further development of their physical potential. Students will learn basic physical fitness concepts and practice game movements that include consistent skill repetition. Students will also participate in modified game play leading to a greater knowledge of the various sports' skill content.

Middle School STEAM

The Middle School STEAM course is a science, technology, engineering, art, and math class that orbits around the application of STEAM principles to the domain of robotics.

Middle School DEAR

The Middle School DEAR course is a reading intensive course. Designed for the avid reader, the student who needs to improve his/her reading comprehension, and everyone in between, Drop Everything And Read provides extended periods of time for student reading.

Middle School Art

The Middle School Art course introduces students to various media and techniques while building upon their knowledge and skills learned in previous art courses. Students will utilize 2-

D and 3-D media and be exposed to various artists and art styles.

Middle School Beginner Percussion

The Middle School Beginner Percussion course provides students the opportunity to study music through the exploration of percussion instruments. Students explore and experience various styles of music through reading, performing, and discussing different types of music, and develop an appreciation for the beauty of music. No experience is required. Students must provide their own instrument.

Middle School Beginner Band

The Middle School Beginner Band course provides students the opportunity to study music through the exploration of brass and woodwind instruments. Students explore and experience various styles of music through reading, performing, and discussing different types of music, and develop an appreciation for the beauty of music. No experience is required. Students must provide their own instrument.

Middle School Percussion

The Middle School Percussion course is the second- and third-year percussion class. Students explore and experience various styles of music through reading, performing, and discussing different types of music, and develop an appreciation for the beauty of music through percussion instrumentation. Students must provide their own instrument.

Middle School Band

The Middle School Band course is the second and third year band class. Students explore and experience various styles of music through reading, performing, and discussing different types of music, and develop an appreciation for the beauty of music. Students must provide their own instrument.

Middle School Chorus

The Middle School Chorus course is a mixed vocal ensemble designed to create a singing community for music learning, community development, and worship expression. Students will explore musical language, singing repertoire, vocal and choral techniques, and Christian worldview through cultural, historical, and sacred songs. Placement or audition is required.

Middle School Theatre

The Middle School Theatre course is an introduction to theatre. Students learn and experience the fundamentals of theatre as they are introduced to acting, technical and set design, and the rehearsal process. No experience required.



Eighth Grade Academic Core Courses

Bible 8

The Bible 8 course is designed to help students deepen their understanding of the Christian worldview and how it compares to other prevalent worldviews. Topics of theology, philosophy, ethics, biology, sociology, psychology, law, politics, economics, and history are discussed and examined as they each relate to the Christian worldview.

English 8

The English 8 course includes all aspects of communication: reading, writing, listening, speaking, vocabulary, and literature. Students will continue to analyze the parts of speech with their functions and the structure of sentences. They will be expected to organize thoughts by formulating paragraphs and by developing paragraphs into essays. Creative compositions in the four styles of writing will be composed through a variety of methods. As students broaden their vocabulary usage and comprehension, they will become more proficient in recognizing the patterns and principles of communication that God has communicated to us. Guided reading will continue to develop students' comprehension of conflicts and resolution of characters leading them towards a deeper understanding of a Christian perspective of literature with real life applications.

English 8 Honors

The English 8 Honors course consists of writing and class discussion and focuses more rigorously on content, organization, and style. It includes all aspects of communication: reading, writing, listening, speaking, vocabulary, and literature. Students will continue to analyze the parts of speech with their functions and the structure of sentences. They will be expected to organize thoughts by formulating paragraphs and by developing paragraphs into essays. Creative compositions in the four styles of writing will be composed through a variety of methods. Students will be expected to become more proficient in recognizing the patterns and principles of communication that God has communicated to us as they develop a deeper understanding of a Christian perspective of literature with real life applications.

Pre-Algebra

The Pre-Algebra course prepares students for the study of algebra. It is expected that students will develop understanding and skills using the strategies and tools of algebra: operations with positive and negative numbers, solving equations, recognizing and using factors, factoring, recognizing and solving ratios, equations and inequalities, powers, percent, functions and functional notation and graphing. An exposure to right angles, including the Pythagorean Theorem, perimeters, areas, and volumes are also included as topics in this course.

Algebra I*

03100500

The Algebra I course is designed to provide the foundation for more advanced mathematics courses and to develop problem-solving skills. Topics include variables, structure and properties of the real number system, first-degree equations and inequalities, relations, functions, graphs, systems of linear equations and inequalities, polynomials, integer exponents, rational expressions, irrational numbers, radical expressions, quadratic equations, and yearlong work on problem solving. A graphing calculator is utilized throughout the course.

*This course is offered at the Middle School level for students who have demonstrated a history of success in mathematics as evidenced through STAR assessments.

Algebra I Honors*

03100500

The Algebra I Honors course is an advanced mathematics course which is designed to address the needs of students who desire to move through the foundational elements in a more rapid manner to focus on the deeper levels of knowledge and application of skills. A graphing calculator is utilized throughout the course. *This advanced course is offered at

the Middle School level for students demonstrating a history of superior mathematic success and interest as evidenced through STAR assessments.

Geometry* 03100700

The Geometry course is an integrated course in plane and solid geometry that includes the following topics: geometry in the coordinate plane, line and angle properties, properties of polygons, circles, Pythagorean Theorem, area, volume, similarity, right triangle trigonometry, and geometric proof. Students will investigate concepts and build conceptual understanding while continuing to develop, reinforce, and master computational skills. This course also has an integrated unit that targets the fundamentals of statistics. A graphing calculator is utilized throughout the course. *This advanced course is offered at the Middle School level for students demonstrating a history of superior mathematic success and interest as evidenced through STAR assessments.

Geometry Honors* 03100700

The Geometry Honors course is an advanced mathematics course that offers a curriculum that includes the following topics: an introduction to geometry, coordinate geometry, concepts of parallelism and perpendicularity, congruent triangles, applications of congruent triangles, quadrilaterals, similarity, right triangles and trigonometry, circles, polygons, surface area, volume, and a review of algebra topics in preparation for Algebra 2. This course also has an integrated unit that targets the fundamentals of statistics. The development of problem-solving strategies and good reasoning habits are emphasized in this course. Students are required to complete a mathematical research project/paper. A graphing calculator is utilized throughout the course. *This advanced course is offered at the Middle School level for students demonstrating a history of superior mathematic success and interest as evidenced through STAR assessments.

Integrated Science 8

The Integrated Science 8 course encompasses a variety of sciences: life science, physical science, space and astronomy, technology, and earth science. Students will be provided the opportunity to develop their knowledge of science and the natural world as they become increasingly familiar with different modes of scientific inquiry, rules of evidence, ways of formulating questions, and proposing explanations, as well as learning the diverse ways scientists study the natural world. As students survey these areas of science investigating new concepts, they will be challenged to develop their reasoning skills based on Scripture.

Biology* 03010200

The Biology course is based on a conceptual and laboratory approach to understanding the nature of living things. The course opens with an introduction to the scientific method and basic chemistry. Subsequent units cover all of the major aspects of the cell and cell theory including structure and function, photosynthesis and respiration, meiosis and mitosis, the cell cycle, nucleic acids and protein production. Students are also given an introduction to genetics and heredity. The second half of the year is devoted to classification and a survey of all of the major kingdoms of living organisms with an emphasis on humans. Computer generated activities, animations, webquests, virtual field trips, and other evolving forms of technology will be incorporated into all facets of the course. *This advanced course is offered at the Middle School level for students demonstrating a history of success and interest as evidenced through STAR assessments. Corequisite: Algebra I.

Biology Honors* 03010200

The Biology Honors course is a comprehensive, challenging, introductory biology course. Time management, work-study skills, and problem-solving techniques are developed throughout the year. Refinement of laboratory skills is an integral part of this course. Microscopic and dissecting techniques allow the student to study organisms anatomically both microscopically and macroscopically in order to realize the correlation and importance between structure and function. Computer generated activities, animations, web quests and

research are incorporated in the presentation and investigation of concepts. *This advanced course is offered at the Middle School level for students demonstrating a history of success and interest as evidenced through STAR assessments. Corequisite: Algebra I.

American History

The American History course identifies the significant people, places, and events in our American Republic that made this country truly unique. It also examines specific events that shaped the rich heritage of the American Republic. Students will be expected to understand how events, issues, lifestyles, beliefs, and relationships between the young American Republic and other countries have shaped this country to be what it is today. They will discover the "hand of God in the affairs of man" and will gain insight into the present-day current events in light of historical truths.

American History Honors

The American History Honors course is academically challenging and requires extensive reading and writing. It identifies the significant people, places, and events in our American Republic that made this country truly unique. It also examines specific events that shaped the rich heritage of the American Republic. Students will be expected to understand how events, issues, lifestyles, beliefs, and relationships between the young American Republic and other countries have shaped this country to be what it is today. They will discover the "hand of God in the affairs of man" and will gain insight into the present-day current events in light of historical truths.

Eighth Grade Elective Courses

Spanish I*

03440100

The Spanish I course is an introductory course designed for the non-native Spanish speaker. It covers vocabulary, grammatical concepts, and verb tenses to prepare students to use the language practically. Students are expected to communicate, read, and write in the Spanish tenses they learn. *This advanced course is offered at the Middle School level for students demonstrating a history of success and interest as evidenced through STAR assessments.

Health*

03810100

The Health course is designed to provide students the opportunity a) to develop the knowledge of God as the Creator of human existence and the environment, b) to understand that maintaining a healthy body and mind requires a specific way of living, c) to foster in students a desire for spiritual health which will require basic Christian disciplines, and d) to help students develop an attitude of respect for their bodies as well as an attitude of responsibility for their own actions. Instructing and guiding students to develop a healthy lifestyle is the overarching design of this course. This course is a one semester half-credit course. *This course is offered at the Middle School level.

Middle School Athletics 7-8

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Cornerstone
CHRISTIAN SCHOOLS
COURSE CATALOG



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