

Forge Christian High School

Course Descriptions | 2024-2025



IMPORTANT NOTE: This is a living document, which is updated periodically.

Please check back for the latest information on current course offerings and descriptions.



This symbol denotes College-Level Honors, Advanced Placement (AP) and Dual-Credit courses. Course prerequisites, corequisites, considerations and fees are listed only when applicable to specific courses. For further information, see the *Dual Credit Information* section at the end of this document.

Bible Department

The Bible is the ultimate source of truth and is the inspired Word of God. It is the primary way in which we encounter God and come to know Him. We discover how to rightly relate to Him, Father, Son, and Holy Spirit, by means of the salvation offered through the incarnate Word, Jesus Christ. This belief in the truthfulness of the Bible is supported by such things as the witness of the Church universal throughout time including the earliest disciples who died for what they believed, the fulfillment of Biblical prophecy, scientific and archeological discoveries, and the integrity of the Scriptures as a whole.

The desired result is that each student consistently chooses to integrate Christ-like attitudes and actions in their lives.

Old Testament Survey

+ Grade 9 (required for all 9th graders)

+ 1.0 Credits (year-long)

In this course, students will discover Christ's reality in each Old Testament book, in God's redemptive plan through the ages. Survey each Old Testament book, learn the main idea of each book, the chief characters and events in each book that support that idea, and the applicable principles God has for our lives from each book.

New Testament Survey (BIB-114)

+ Grade 10 (required for 10th)

+ 1.0 Credits (year-long)

+ \$200/3.0 Credits Due to
CCU for Dual Credit Option



This course provides an introduction to the theological, historical, and literary features of the New Testament, tracing the presentation of the gospel message through historical, epistolary, and apocalyptic genres. Special consideration will be given to the life of Christ and missionary journeys of the Apostle Paul.

Considerations:

3.0 college credits will be earned if choosing the Dual Credit option.

Worldviews and World Religions (PHL-205)

+ Grade 11 (required for 11th)

+ 0.5 Credits (semester-long)

+ \$200/3.0 Credits Due to
CCU for Dual Credit Option



This class looks at what a worldview is, why it is important, and how various other religious and non-religious worldviews both overlap and are distinguished from that of a biblical worldview. It also focuses on appreciation, critical assessment, and respectful communication with people from other faith traditions.

Considerations:

3.0 college credits will be earned if choosing the Dual Credit option.

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Apologetics (APO-100)

+ Grade 11 (*elective*)

+ 0.5 Credits (*semester-long*)

+ \$200/3.0 Credits Due to
CCU for Dual Credit Option



Apologetics is derived from the ancient Greek word, apologia, which means “defense” or “answer”. The word is found in 1 Peter 3:15, which serves as a summary for the course: “[B]ut in your hearts honor Christ the Lord as holy, always being prepared to make a defense to anyone who asks you for a reason for the hope that is in you; yet do it with gentleness and respect” (ESV). The historicity of the Resurrection of Jesus, the reliability and accuracy of the Bible being God’s Word, and the philosophical coherence and empirical reliability of The Christian Faith are grounded in historical, archaeological, textual, and even anthropological evidence that is ubiquitous. It is in Apologetics that this evidence is studied, discussed, learned, and discovered, so that students can know that their faith is founded upon solid evidence and reason, and also that they can fulfill The Lord Jesus’ Matthew 28:18-20 Great Commission to His followers to make disciples of all people groups.

Considerations:

3.0 college credits will be earned if choosing the Dual Credit option.

Future Ready

+ Grade 12 (*required for 12'*)

+ 0.5 Credits (*semester-long*)

+ \$12 Book Fee

Future Ready introduces students to the skills and strategies that are helpful in becoming more focused, productive individuals in life after high school. In this class, students will be guided in exploring, identifying, and connecting to a variety of post high school options, including college and career. Students will explore careers of interest: goal setting; managing time, energy, mental health and how to manage such stressors; and identify their High School and Beyond Plan. They will also gain practical consumer and life skills in communication, interpersonal conflict, self-talk and discovering their purpose. All of this will be done in light of biblical truth.

Book: *Welcome to Adulthood: Navigating Faith, Friendship, Finances and The Future*

Author: Jonathan “JP” Pokluda with Kevin McConaghy

Biblical Interpretation “PRISM” (BIB-230)

+ Grade 11 or 12 (*elective*)

+ 0.5 Credits (*semester-long*)

+ \$200/3.0 Credits Due to
CCU for Dual Credit Option



This course seeks to equip students to make good sense of the Bible, both for themselves, and for those with whom they share it. It seeks to develop robust and balanced interpretation skills, helping students spot and avoid errors as well as gleaning more insights from the Bible and discerning God’s voice within it.

Prerequisite: Old Testament Survey; New Testament Survey; Theology in Modern Life

Considerations:

3.0 college credits will be earned if choosing the Dual Credit option.

Theology in Modern Life (THE-201)

+ Grade 11 or 12 (*elective*)

+ 0.5 Credits (*semester-long*)

+ \$200/3.0 Credits Due to
CCU for Dual Credit Option



What we believe dictates what we do. This class takes an in-depth look at how we arrive at our beliefs, how we decide what we believe about new topics, and how to discern and discuss beliefs in light of modern issues. We follow the traditional main doctrines of the Christian faith, but look at lesser known issues within them (the Underworld, the Future, God and Time, God’s emotions) as well as debates from contemporary life that intersect with them. (e.g. TransGenderism, Racism, Social media, Women in Leadership, Historical Adam, etc.)

Considerations:

It is highly recommended that students take Old Testament Survey and New Testament Survey prior to taking this course. Exceptions are permitted only with the approval of the Department Head and registrar. 3.0 college credits will be earned if choosing the Dual Credit option.

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English Department

The language arts are rooted in our Creator – a God of communication who chose to reveal himself to the world through His creation, through His spoken Word, Jesus Christ, and through His written Word, the Bible. God has revealed himself as a God of order, creativity, and compassion. When students interact with literature, they are given the opportunity to peer through a window to engage with the experiences of others as well as the opportunity to look into a mirror and to reflect upon their own experiences, deepening their heart of compassion by doing both. By learning to communicate clearly in both written and oral forms, students will be equipped to intelligently present themselves, the Lord, and the gospel to a world desperately in need.

English 9

✦ Grade 9

✦ 1.0 Credits (*year-long*)

English 9 is the foundation on which students build for classes throughout high school. You will learn the mechanics necessary to write and speak effectively and be encouraged to use communication appropriately, remembering, “out of the heart, the mouth speaks.” Students will examine structure and elements of literature and begin to more carefully consider the way that literature is a tool for understanding and expressing morals. We will work to improve our reading, writing, listening, thinking, and speaking skills through a variety of activities and assignments.

Advanced English 9

✦ Grade 9

✦ 1.0 Credits (*year-long*)

Advanced English 9 is an exploration of literary classics and development of written literary analysis skills. Students will grow in their reading, writing, listening, thinking, and speaking skills through a variety of activities and assignments. This class serves as an introduction to literary analysis and is the foundation for subsequent advanced English classes at Forge.

Prerequisite:

Both semesters, earn 80% or higher in Advanced Language Arts 8 or a 90% or higher in regular Language Arts 8. Placement based on recommendations from the prior English teacher. May also sit for a placement test and score at a 75% or higher on a written essay from a standard prompt.

English 10

✦ Grade 10

✦ 1.0 Credits (*year-long*)

English 10 is an exploration of literary classics from around the world and development of written literary analysis skills. Students will consider how they can best add their voice of truth to our global society. Students will grow in their reading, writing, listening, thinking, and speaking skills through a variety of activities and assignments.

Advanced English 10

✦ Grade 10

✦ 1.0 Credits (*year-long*)

Advanced English 10 is an exploration of literary classics from around the world and development of written literary analysis skills. Students will consider how they can best add their voice of truth to our global society. Students will grow in their reading, writing, listening, thinking, and speaking skills through a variety of activities and assignments. This class cements students' literary analysis skills and ensures they are ready for the dual-credit English classes offered at Forge in 11th and 12th grade.

Prerequisite:

Need to earn 80% (both semesters) or higher in Advanced English 9 or 90% or higher in regular English 9. Placement based on recommendations from the prior English teacher.

Considerations:

Summer reading and work must be completed prior to the start of school in August, or the student will be placed in regular English 10.

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English 11

+ Grade 11

+ 1.0 Credits (*year-long*)

English 11 develops the student's ability to analyze a writer's rhetorical strategies in a variety of fiction and nonfiction selections. In addition to this emphasis, the class is an overview of important American writers and the impact of their writing on American history and culture.

Honors English 11 Language and Composition (ENG-102)

+ Grade 11

+ 1.0 Credits (*year-long*)

+ \$200/3.0 Credits Due to

+ \$110 for AP Exam (optional)

CCU for Dual Credit Option



Honors English 11 develops the student's ability to analyze a writer's rhetorical strategies in a variety of fiction and nonfiction selections. In addition to this emphasis, the class is an overview of important American writers and the impact of their writing on American history and culture.

Prerequisite:

Earn 80% or higher in both semesters of Advanced English 10 or 90% or higher in regular English 10. Placement based on recommendations from the 10th grade English teacher.

Considerations:

College-level course. Summer reading and work must be completed prior to the start of school in August, or the student will be placed in regular English 11. 3.0 college credits will be earned if choosing the Dual Credit option.

English 12

+ Grade 12

+ 1.0 Credits (*year-long*)

In English 12, students will examine the elements of British literature and how it relates to a modern Christian worldview. Students will understand, experience, and evaluate poetry, short fiction, essays, and drama genres as they study the development of English literature from the Anglo Saxons to the modern period. Through their study, students will learn to read analytically and articulate their thoughts effectively using lifetime writing skills.

Honors English 12: Introduction to Literature (ENG-201)

+ Grade 12

+ 0.5 Credits (*semester-long*)

+ \$200/3.0 Credits Due to

CCU for Dual Credit Option



Honors English 12: Introduction to Literature is a college-level course, challenging students intellectually with a heavy load of reading and writing assignments. Students will understand, experience, and evaluate poetry, short fiction, essays, and drama genres, both American and multinational. Through their study, students will learn to read analytically and articulate their thoughts effectively.

Prerequisite:

Passing grade in Honors English 11 with a 75% or higher

Considerations:

College-level course. Offered in conjunction with Honors English 12: C.S. Lewis in Film & Literature. 3.0 college credits will be earned if choosing the Dual Credit option.

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Honors English 12: C.S. Lewis in Film & Literature (HUM-229)

+ Grade 12

+ 0.5 Credits (*semester-long*)

+ \$200/3.0 Credits Due to
CCU for Dual Credit Option



Honors English 12: C.S. Lewis in Film & Literature is a college-level course, challenging students intellectually with a heavy load of reading and writing assignments. Students will examine some of the major works of C. S. Lewis to see how this master storyteller and great communicator used story, and particularly metaphor, to communicate the Christian message to a secular world.

Prerequisite:

Passing grade in Honors English 11 with a 75% or higher

Considerations:

College-level course. Offered in conjunction with Honors English 12: Introduction to Literature. 3.0 college credits will be earned if choosing the Dual Credit option.

Applied English I, II

+ Grade 9-10

+ 1.0 Credits (*year-long*)

In Applied English I and II, students will learn the mechanics necessary to write and speak effectively. Students will examine structure and elements of literature and carefully consider the way that literature is a tool for understanding and expressing truth. Students will work to improve their reading, writing, listening, thinking, and speaking skills through a variety of activities and assignments.

Prerequisite:

Must have administrative approval. The Applied English courses are for students requiring additional support. This class is an alternative presentation of subject material and/or smaller sized classes.

Math Department

Welcome to the Mathematics Department at Forge Christian High School, where we strive to integrate Christian principles with studying and applying mathematics. We aim to cultivate a comprehensive, rigorous, and holistic curriculum covering various mathematical topics, ensuring students develop strong analytical and problem-solving skills and a deep understanding of the beauty and order inherent in God's creation. We believe in exploring mathematics to discover the order and precision embedded in God's creation. Our faculty integrates Christian principles into the curriculum, encouraging students to see mathematics as a tool for understanding and stewarding the world. We encourage students to apply God's gifts to work wholeheartedly unto the Lord and impact society for God's kingdom. Mathematical study with a Biblical worldview will develop hearts of praise and thanksgiving for God's goodness as Creator.

All Math Pathways are pre-collegiate. Honors classes are collegiate level and have the potential to earn Dual Credit in college. Forge's Math Pathways are in alignment with the Colorado Math Pathways defined by the Colorado Department of Higher Education. The **Quantitative Thinking Path** presents concepts sequentially with some word problems. The **Statistics Path** follows a spiral curriculum with increased word problems. The **Calculus Path** is a spiral curriculum, increased word problems, and working above one (or more) grade levels.

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Strong Math Skills?

Yes No → Quantitative Thinking or Statistics Path



Interested in Science or Engineering?

Yes No → Quantitative Thinking or Statistics Path



Self-Motivated and Organized?

Yes No → Statistics Path



Calculus Path

Math Pathway	Quantitative Thinking Path *	Statistics Path	Calculus Path
Grade Level	On-Grade Level	Advanced Courses On-Grade Level	Advances Courses Above-Grade Level
Intended College Majors	Arts & Humanities	Social & Behavioral Sciences	Engineering/STEM, Health Sciences, and Some Business Majors
9th Grade	Algebra I	Honors Algebra I	Advanced Geometry
10th Grade	Geometry OR Algebra II	Advanced Geometry OR Honors Algebra II	Honors Algebra II OR Calculus AB
11th Grade	Algebra II OR Consumer Math	Honors Algebra II OR Trigonometry / Precalculus OR Honors Statistics	Calculus AB OR Calculus BC
12th Grade	Algebra II OR Trigonometry / Precalculus OR Honors Statistics OR Consumer Math	Trigonometry / Precalculus OR Calculus AB OR Honors Statistics	Calculus AB OR Calculus BC OR Honors Statistics

*There are other course options for students on a Core Math Plan.

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Pre-Algebra

+ Grade 9

+ 1.0 Credits (*year-long*)

Pre-Algebra is a year-long course that serves as a bridge between elementary mathematics and Algebra. It builds a foundation of algebraic concepts which utilize and enhance problem solving, reasoning, estimation, and identifies connections between math and everyday applications. Pre-Algebra is designed to prepare students for Algebra I.

Considerations:

Pre-Algebra is taught from a more traditionally organized textbook and is intended to prepare the student for high school Algebra. It may be used as a prerequisite for Algebra I.

Algebra I

+ Grade 9

+ 1.0 Credits (*year-long*)

Algebra I is a year-long course that is often called a gatekeeper course because it opens the door to all other areas of study in mathematics. This course provides a comprehensive teaching of the fundamental aspects of problem solving. Major topics of study include: evaluation of algebraic equations, exponent rules and manipulation, polynomials, solving and graphing linear equations, solving and graphing two variable inequalities, solving systems of equations, radicals, word problems, solving and graphing quadratic equations, and factoring.

Prerequisite:

Pre-Algebra or Middle School equivalent.

Considerations:

Algebra I is taught from a more traditionally organized textbook and is intended to meet the Algebra requirement for high school graduation. It may be used as a prerequisite for Geometry and Algebra 2, but not for courses in the advanced math series.

Geometry

+ Grades 9-10

+ 1.0 Credits (*year-long*)

Mathematics encompasses nearly every aspect of life. Through the appropriate biblical integration of math, students should see the character of God Himself as the God of order. Learning mathematical principles develops critical thinking, problem solving, reasoning, and evaluation skills - all important tools for making wise use of God's creation. This course will be taught according to the traditional chapter format of the textbook. Each chapter covers a geometry topic that incorporates practice; application, and real life uses of the material, as well as maintaining previously learned math skills. The course is designed to emphasize the many different applications of mathematics through daily practice.

Prerequisite:

Algebra I or Advanced Algebra I

Algebra II

+ Grades 10-11

+ 1.0 Credits (*year-long*)

This course develops mathematics from a biblical framework. It is designed with the hope and prayer that students would know Christ as Savior, grow in their knowledge of Him, and understand the value of math for their Christian growth and service. Bible verses and applications are included throughout, and each chapter has an in-depth Bible study on the biblical basis of mathematics. God's created order and design of mathematics will be evident throughout Algebra 2.

Prerequisite:

Algebra I, Geometry

Considerations:

Algebra II is organized by topics and major objectives. In order to be successful in this course, it is recommended that the student have attained a C or better average in Algebra I.

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Trigonometry/Precalculus

+ Grades 11-12

+ 1.0 Credits (*year-long*)

This is a math course that will emphasize and offer an in-depth study of the topics introduced in Algebra II. This course will give the students the skills they need to take such classes as Calculus or College Math. All college majors require college math. This class will put you in a strong position to be successful in future math courses.

Prerequisite:

Algebra II or Advanced Algebra II

Consumer Math

+ Grades 11-12

+ 1.0 Credits (*year-long*)

Consumer Math is a year-long survey of financial transactions encountered in life, starting with budgeting and earning money to purchasing food, clothing, cars, and houses. Students also focus on stewardship of what God has given us. The following areas are covered: income, budgeting, personal banking, borrowing money, transportation, food, clothing, housing, insurance, taxes, and vacation.

Prerequisite:

Grade 11 must have Administrative approval.

Advanced Algebra I

+ Grade 9

+ 1.0 Credits (*year-long*)

Students are introduced to the fundamentals of problem-solving and Algebraic processes.

Prerequisite:

A minimum of an 80% average in Saxon Pre-Algebra (Course 3) or have administrative approval which may include a placement test.

Considerations:

Credit and grades from Algebra I taken in 8th grade will be reflected on a student's high school transcript. Fall Semester test grades will be used to determine Spring Semester continuation in this course.

This course is a prerequisite for the advanced math series including Advanced Geometry, Honors Algebra II, Honors Calculus AB, and AP Calculus BC.

Advanced Geometry

+ Grades 9-10

+ 1.0 Credits (*year-long*)

Our approach of a distributed instruction, practice and assessment through review over time promotes long-term retention. Students will master the fundamentals of geometry, including shapes, solids, measurements, proportions, proofs, and coordinate spatial awareness. Upon completion of this course students will be prepared to move into Honors Algebra II.

Prerequisite:

Advanced Algebra I with a minimum of an 80% average or have administrative approval which may include a placement test.

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Honors Algebra II (MAT-111)

+ Grades 10-11

+ 1.0 Credits (*year-long*)

+ \$200/3.0 Credits Due to
CCU for Dual Credit Option



Students master the fundamentals of problem solving and Algebraic processes, are introduced to Trigonometry and begin the study of Precalculus. At the successful conclusion of this course a student is prepared to take Calculus AB.

Prerequisite:

Advanced Geometry with a minimum of an 80% average or administrative permission.

Considerations:

College-level course. 3.0 college credits will be earned if choosing the Dual Credit option.

Honors Statistics (MAT-212)

+ Grades 11-12

+ 1.0 Credits (*year-long*)

+ \$200/3.0 Credits Due to
CCU for Dual Credit Option



An introduction to statistical analysis as used in various liberal arts disciplines. Descriptive and inferential statistics and attendant research designs will be considered. Students will become familiar with Statistical functions on their TI-84 calculators and their use in analyzing data and decision making. Statistics is required for all communication, health sciences, political science, and psychology majors.

Prerequisite:

Algebra II with a minimum of an 80% average or administrative permission.

Considerations:

College-level course. 3.0 college credits will be earned if choosing the Dual Credit option.

Honors Calculus AB (MAT-141)

+ Grades 11-12

+ 1.0 Credits (*year-long*)

+ \$200/4.0 Credits Due to
CCU for Dual Credit Option



This course will introduce Calculus concepts, examine limit theory, the derivative, the integral, and the applications of the derivative and integral. Upon successful completion of this course, students will be prepared for Honors Calculus BC or a college level Calculus course.

Prerequisite:

Advanced Algebra II or Precalculus with a minimum grade of 80% or administrative approval

Considerations:

College-level course. 3.0 college credits will be earned if choosing the Dual Credit option.

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Honors Calculus BC (MAT-241)

+ Grade 12

+ 1.0 Credits (*year-long*)

+ \$200/4.0 Credits Due to

+ \$110 AP Exam (*optional*)

CCU for Dual Credit Option



This course is designed to give each student college credit for calculus. There are two AP Calculus tests, the AB and the BC. AB covers less material and provides less college credit. This course, however, is designed to prepare you for the BC test. All students taking this course are required to take the BC exam. With a high enough score, students will receive college credit for two semesters of calculus. Regardless of a student's major, this can be a real advantage going into college as a freshman.

The intention of this course will be for each student to understand not only the mechanics of Calculus, but the geometric and conceptual relationship between variables and their many applications. Furthermore, it is expected that each student not only knows these relationships but be able to communicate the interplay between the conceptual and mechanical in written and verbal forms.

Prerequisite:

80% or higher in Honors Calculus AB or permission from the Honors Calculus AB instructor.

Considerations:

College-level course. Completion of the Calculus BC Exam in May is required with the opportunity to receive between 8 and 16 semester hours of credit at various colleges and universities. 3.0 college credits will be earned if choosing the Dual Credit option.

Science Department

God is the Creator of the Universe and actively involved in the physical world. There is order and purpose in His creation because He has set physical and spiritual laws in motion and continues to remain sovereign over His creation. His purposeful design can be seen through every natural process. As students begin to view all of life through the eyes of faith, we invite them to see evidences of God's power, wisdom, beauty, and love all around them. Science is an investigation of the workings of God's creation. We are challenged to understand this created physical world and the scientific process by which this knowledge is discovered and communicated. Science is coming to understand both the body of knowledge through problem-solving and inquiry. He commands us to "rule" over creation by learning to take care of it. Critical thinking helps us to incorporate His purposeful design into a student's worldview and demonstrates the ability to utilize thinking skills into their work. As a result, Science is a process of coming to logical conclusions through reasoning from observed evidence. Some science courses parallel courses in the Math pathways.

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Strong Math Skills?

Yes No → Quantitative Thinking or Statistics Path

Interested in Science or Engineering?

Yes No → Quantitative Thinking or Statistics Path

Self-Motivated and Organized?

Yes No → Statistics Path

Calculus Path

Math Pathway	Quantitative Thinking Path	Statistics Path	Calculus Path
Grade Level	On-Grade Level	Advanced Courses On-Grade Level	Advances Courses Above-Grade Level
9th Grade	Physical Science	Physical Science OR Biology	Biology
10th Grade	Biology	Biology OR Chemistry OR Honors Chemistry *	Honors Chemistry *
11th Grade	Chemistry OR Honors Chemistry*	Chemistry OR Honors Chemistry * OR Marine Biology OR Physics OR Honors Human Anatomy & Physiology	Physics OR Honors Human Anatomy & Physiology
12th Grade No additional science courses are required after 3 credits.	Chemistry OR Honors Chemistry * OR Marine Biology OR Physics OR Honors Human Anatomy & Physiology	Chemistry OR Honors Chemistry * OR Marine Biology OR Physics OR Honors Human Anatomy & Physiology	Physics OR AP Physics † OR Honors Human Anatomy & Physiology

* Advanced Geometry / Algebra II Required (may be taken at the same time)

† Calculus Required

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Physical Science

✦ Grade 9 (*required for all 9th graders*)

✦ 1.0 Credits (*year-long*)

Physical science will provide the student with the foundation for further study in the fields of chemistry and physics. This course will enable the student to be a more effective student scientist by examining the biblical worldview themes of order in nature, science and dominion, modeling, the pursuit of science and science and ethics.

Biology

✦ Grades 9-10

✦ 1.0 Credits (*year-long*)

This course will explore the many different kinds of life created by God, emphasizing and explaining his wonderful and intelligent design in all of His creations. The student will explore several kinds of life on our planet and the structure and maintenance of these life forms. The student will also focus on all national and state standards in Biology to fully prepare them to take the SAT and ACT college entrance exams.

This course is a Lab course, so the student will be expected to participate weekly in lab work, discussions, and write-ups to better understand concepts presented in class.

Prerequisite:

80% or higher grade in Earth Systems Science, or equivalent course, and Algebra I.

Marine Biology

✦ Grades 11-12

✦ 1.0 Credits (*year-long*)

This course is designed for students with an interest in marine biology and oceanography and will provide an excellent background for further study of the oceans and the organisms that inhabit it. Major concepts include the study of: the interrelationship of marine and terrestrial environments, the geology of the oceans, marine organisms, and the ecology of coral reefs. Students will learn about the physical structure and chemistry of the ocean, the diversity of ocean life, marine ecology, and the scope and impact of human interactions with the oceans. Laboratory activities reinforce concepts and principles presented. Laboratory activities, including the examination of marine specimens are utilized throughout this course to build upon student knowledge.

Prerequisite:

Passing grade in Biology

Chemistry

✦ Grades 11-12

✦ 1.0 Credits (*year-long*)

Chemistry is for students who would like an introductory chemistry course but do not wish to pursue a science-related career in life. The course will help prepare college-bound students pursuing non-science fields. We will cover topics such as nuclear chemistry, atom structure, green chemistry, atmospheric gasses, chemistry of illicit drugs, biochemistry, chemistry of water and other topics.

Prerequisite:

Biology

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Honors Chemistry (CHM-121/131)

+ Grades 10-12

+ 1.0 Credits (*year-long*)

+ \$200/5.0 Credits Due to
CCU for Dual Credit Option



Chemistry is a traditional junior-level course designed to prepare students for entrance into college chemistry courses and is a must for those students interested in science and health-related careers. The course is the equivalent of a first-semester college chemistry course and students that retain mastery of the material should be able to enter the second semester of college chemistry class with approval of the university.

Prerequisite:

Passing grade of 80% in both Biology and Advanced Algebra I.

Corequisite:

Advanced Geometry or Algebra 2

Considerations:

This is a college-level course. 3.0 college credits will be earned if choosing the Dual Credit option.

Physics

+ Grades 11-12

+ 1.0 Credits (*year-long*)

In this course, you will receive a rigorous study of physics without calculus. The goal of this course is to understand God's creation through physics and how the physical laws govern the world around us.

Prerequisite:

Passing grade in Chemistry. Recommended grade of 80% or higher in Algebra II OR Advanced Algebra II; exceptions require instructor approval.

AP Physics C

+ Grade 12

+ 1.0 Credits (*year-long*)

+ \$110 AP Exam (*required*)



In this course, you will receive a rigorous study of Physics through Calculus. Calculus offers many helpful tools to understanding God's creation through Physics which allows the study to be rigorous.

Prerequisite:

Passing grade in both Biology and Chemistry. Recommended grade of 80% or higher in both Biology and Chemistry; exceptions require instructor approval. Passing grade of 80% or higher in Honors Calculus AB.

Considerations:

This is a college-level course. 3.0 college credits will be earned if choosing the Dual Credit option.

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Honors Anatomy & Physiology (BIO-201/211 and BIO-202/212)

+ Grades 11-12

+ 1.0 Credits (*year-long course*)

+ \$200/4.0 Credits Due to
CCU for Dual Credit Option



This course is designed to be an upper-level science for the student interested in pursuing a career in the medical area. Students will study the homeostatic mechanisms as well as the structures of the body. Topics considered will be the chemical and cellular structures and their organization, tissues, the integumentary, muscular, nervous, sensory, cardiovascular, endocrine, urinary, electrolyte, and reproductive systems, human development and genetics. You will receive 1.0 Forge credit for the year, but 4.0 college credits/semester (8 total). Some of the college credits received will count towards lab credits.

Prerequisite:

Recommend passing grade of 80% in both Biology and Chemistry.

Considerations:

College-level course. This course is designed to be an upper level science for the student interested in pursuing a career in a health/medical field. 3.0 college credits will be earned if choosing the Dual Credit option.

History Department

History requires an understanding of God's sovereignty, love for His creation, and the correct perception of human nature. We emphasize God's control over all events, past and future. It is a study of events through a biblical worldview with God, who has planned and directed all events in order to establish Christ's kingdom on earth. Our history records mankind's attempts to live out the Creation Mandate which commands humankind to "rule" over creation by learning to take care of it in a fallen world. The study of history also addresses our responsibilities for developing citizenship in a Christian community, cultural identity, and awareness of a global world and people. We study examples of both positive and negative examples as God has worked through people throughout history. Through this biblical perspective, students learn that humanity is fallen and how God's redemptive acts are focused on rescuing His people and to draw them to Himself. All of our courses teach students to view history and our current society from a biblical perspective.

World History and Geography

+ Grades 9-10

+ 1.0 Credits (*year-long*)

A survey of the history of the world, starting with creation and continuing to the present. Students analyze the five key themes throughout history from a Biblical perspective: justice, power, citizenship, environment, and world religions. In addition, geography is examined focusing on the themes of geography: location, place, human/environmental, movement, and regions.

U.S. History

+ Grades 10-11

+ 1.0 Credits (*year-long*)

This two-semester survey course uses primary and secondary sources, period movies, artwork, and music to study American History. We will review Columbus, the Revolutionary War, the Constitution, Hamilton and Jefferson, the Native Americans, and the Civil War, but will spend the majority of our time studying Reconstruction to the present.

Prerequisite:

World History and Geography

Forge Christian High School

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Honors U.S. History (HIS-205/HIS-206)

+ Grades 11-12

+ 1.0 Credits (*year-long*)

+ \$200/3.0 Credits Due to

+ \$110 AP Exam (*optional*)

CCU for Dual Credit Option



The first semester of this course covers the history and development of the United States of America beginning with its colonial origins. The nature of American social, political, and religious thought will be covered, as well as key individuals and events. The second semester broadly surveys the history of the United States from the Civil War to the end of the twentieth century. Key individuals and events will be covered, in addition to the political, social, economic, and religious aspects of the time period. Honors U.S. History is an optional course that has been audited and accepted by Colorado Christian University for two semesters (6 credit hours) of college credit.

Prerequisite:

Teacher recommendation required.

Considerations:

College-level course. 3.0 college credits will be earned if choosing the Dual Credit option.

American Government

+ Grades 11-12

+ 0.5 Credits (*semester-long*)

American Government is designed to give the student a foundational knowledge of the political views and systems across the political spectrum, and to evaluate them according to a biblical worldview. We analyze God's purpose for Government as an act of grace for humanity and our role in His plan.

Prerequisite:

World History and Geography

Considerations:

This course is usually taken the opposite semester of Economics.

Honors American Government (POL-207)

+ Grades 11-12

+ 0.5 Credits (*semester-long*)

+ \$200/3.0 Credits Due to

+ \$110 AP Exam (*optional*)

CCU for Dual Credit Option



Introduction to American Politics is about politics, its practice and its study, its universal character, and its character within the American constitutional order. Politics exists wherever man exists because man is the political animal. He alone exercises rule—and offers justifications for it. The study of politics is bound up, intrinsically, then, with the study of human nature and its place within creation.

Prerequisite:

Teacher recommendation required.

Considerations:

College-level course. 3.0 college credits will be earned if choosing the Dual Credit option.

Forge Christian High School

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Economics

+ Grades 11-12

+ 0.5 Credits (*semester-long*)

This course is an introduction to the methodology of economics and its use in the world. It will focus on core macro and microeconomic issues that influence economic choices made by families, businesses, and governments. Personal Finance, using Dave Ramsey's *Foundations in Personal Finance* curriculum is also a significant portion of the course. It will take a biblical approach to making financial decisions and prepare the student to understand life on a Godly economic level.

Prerequisite:

World History and Geography

Considerations:

This course is usually taken the opposite semester of American Government.

Honors Economics (ECO-215)

+ Grades 11-12

+ 0.5 Credits (*semester-long*)

+ \$200/3.0 Credits Due to

+ \$110 AP Exam (*optional*)

CCU for Dual Credit Option



Economics is about scarcity and choice. Students in this course study how people, firms, governments, and nations interact in alternative economic systems to make choices about allocating scarce resources. In addition, students learn to evaluate these systems, understand macroeconomic monetary and fiscal policies, and engage in policy debates.

Prerequisite:

Teacher recommendation required.

Considerations:

College-level course. 3.0 college credits will be earned if choosing the Dual Credit option.

Psychology

+ Grades 11-12

+ 1.0 Credits (*year-long elective*)

Psychology is a year-long elective where students will study the human brain and its various functions. Students will learn about human behavior as it relates to the history of psychology and developmental perspectives. Students will examine the impact of psychology on everyday life such as sleep, stress and health, personality, psychological disorders, memories, learning, and motivation.

AP Human Geography

+ Grades 10-12

+ 1.0 Credits (*year-long elective*)

AP Human Geography is an introductory college-level human geography course. Students cultivate their understanding of human geography through data and geographic analyses as they explore topics like patterns and spatial organization, human impacts and interactions with their environment, and spatial processes and societal changes.

Forge Christian High School

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World Languages Department

God originated languages and has control over man's ability to speak and understand other languages. Obedience to the commands of the Lord requires going to people of all languages. We strive to teach the importance of learning a language, to unite us and build relationships with other God-ordained people groups across the world. Additionally, our college-prep language program fully prepares students for college-level language through an interactive yet rigorous academic curriculum.

French I

✦ Grades 9-12

✦ 1.0 Credits (*year-long*)

This beginning level French class will help you become proficient in the skills of listening, speaking, reading and writing in French. Every unit includes lessons about geography and culture in addition to grammar and vocabulary lessons. By the end of the first quarter, the class will be given predominantly in French. At that time, *all students* will be expected to speak French. This includes times when you are speaking to your neighbor as well as when you are answering questions or participating in activities.

To supplement our French studies, we'll also be using DVDs, CDs, games, YouTube videos and contemporary music. There will also be group activities and projects, though I will never grade you based on whether your accent or grammar is better than someone else's. Your grades will reflect your own personal improvement in your French skills.

Prerequisite:

Ninth grade students wishing to take French I must have an 85% or higher in 8th grade English or a strong desire to learn the target language.

Considerations:

During this first introductory course, students acquire a foundation in French grammar and vocabulary. A 70% average or higher is required to advance to the next semester or next level of French.

French II

✦ Grades 10-12

✦ 1.0 Credits (*year-long*)

This intermediate level French class will help you become more proficient in the skills of listening, speaking, reading and writing in French. Every unit includes lessons about geography and culture in addition to grammar and vocabulary lessons.

By the end of the second week, the class will be given predominantly in French. At that time, *all students* will be expected to speak French. This includes times when you are speaking to your neighbor as well as when you are answering questions or participating in activities.

To supplement our French studies, we'll also be using DVDs, CDs, games, YouTube videos and contemporary music. There will also be group activities and projects, though I will never grade you based on whether your accent or grammar is better than someone else's. Your grades will reflect your own personal improvement in your French skills.

Prerequisite:

A 70% average or better in French I. Students new to Forge must have a 70% or higher on the French Placement Test.

Considerations:

A 70% average or higher is required to advance to the next semester or level of French.

Forge Christian High School

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French III

+ Grades 11-12

+ 1.0 Credits (*year-long*)

By reading and discussing short stories and short novels, students should increase their communication skills to the point at which a native could understand them. Study of the subjunctive will enable them to understand literary works and express themselves in a grammatically correct manner. Verbal proficiency is enhanced through expanded vocabulary, dialogue practice, and plays

Prerequisite:

A 70% average or better in French II by reading and discussing short stories and short novels. Students new to Forge Christian High School must have a 70% or higher on the French Placement Test.

Considerations:

A 70% average or higher is required to advance to the next semester or level of French

Spanish I

+ Grades 9-12

+ 1.0 Credits (*year-long*)

This course is designed to help the student attain proficiency in the four skills of listening, speaking, reading and writing in Spanish. The student will also learn about the geographic, ethnic, and cultural variety in the Spanish-speaking world.

Prerequisite:

Ninth grade students wishing to take Spanish I must have an 85% or higher in 8th grade English, or a strong desire to learn the target language.

Considerations:

During the first year, students acquire a foundation in Spanish grammar and vocabulary. A student must pass the Fall Semester with a 70% or better in order to continue in the Spring Semester. A 70% average or higher is required to advance to the next semester or next level of Spanish.

Spanish II

+ Grades 10-12

+ 1.0 Credits (*year-long*)

This course is designed to help the student attain proficiency in the four skills of listening, speaking, reading and writing in Spanish. The student will also learn about the geographic, ethnic, and cultural variety in the Spanish-speaking world.

Prerequisite:

A minimum of a 70% average in Spanish I. Students new to Forge must have a 70% or higher on the Spanish Placement Test.

Considerations:

A 70% average or higher is required to advance to the next semester or next level of Spanish.

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Spanish III

+ Grades 11-12

+ 1.0 Credits (year-long)

This course reviews all concepts taught in Spanish I and II. Students will continue practicing the skills of listening, speaking, and writing. By reading and discussing short stories and short novels, students should increase their communication skills to the point at which a native could understand them. Study of the subjunctive will enable them to understand literary works and express themselves in a grammatically correct manner. Verbal proficiency is enhanced through expanded vocabulary, dialogue practice, and plays.

Prerequisite:

A 70% average or better in Spanish II. Students new to Forge must have a 70% or higher on the Spanish Placement Test.

Considerations:

A 70% average or higher is required to advance to the next semester or next level of Spanish.

Fine Arts Department

Through music, drama and the visual arts, we will bring glory to God through expression in the fine arts. As students worship God through the arts, they will discover that God is the ultimate source of creativity in every art form. Students will develop an understanding of how all art forms can affect the world for Christ by revealing His Word, communicating His truth and glorifying His masterful beauty. Forge Fine Arts department strives to grow students beyond artistic techniques and talents to see them flourish in expression, communication, and servanthood.

Art I

+ Grades 9-12

+ 1.0 Credits (year-long)

The first year of high school art addresses *The Elements of Art* (line, shape, form, value, texture, space, and color) from the belief that anyone can develop themselves as a visual artist. Because the most productive learning comes from doing, students will receive guided training and practice in the mediums of graphite, charcoal, ink, colored pencils, pastels, watercolor, acrylic, and scratchboard. The most important skill for students to achieve is the ability to see what they want to create and then be able to dissect the process needed to build their artwork. "If you can see it, you can draw it." Students are taught that mistakes are a healthy part of the creative process and that honoring God with one's uniqueness and individuality is the best form of creativity.

Art II

+ Grades 10-12

+ 1.0 Credits (year-long)

The second year of high school art students focus on learning and using *The Principles of Design* (emphasis on hierarchy, pattern repetition, variety, unity, contrast, movement and rhythm, proportion and scale, balance and alignment) to strengthen their compositions. They work to refine their technique in past mediums along with adding the mediums of digital art, printmaking, oil painting, and 3-D art forms. With more artistic freedom students are stretched to consider how their personal beliefs and viewpoints can shape their art as they create self-portraits and social statement works of art.

Prerequisite:

Art I (two semesters)

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Art III

+ Grades 11-12

+ 1.0 Credits (*year-long*)

The third and fourth years of art become highly personalized as students work to create and refine a strong art portfolio. Students continue to define their artistic voice by creating other self-portraits, and social statements, and reworking classical masterpieces. Students may revisit past works with better technical skills and comprehension of *The Elements of Art* and *Principles of Design*. These efforts are followed up with the creation of an online portfolio and artist statement that is ready for college or freelance presentation.

Prerequisite:

Art II (two semesters)

Advanced Art I

+ Grade 12

+ 1.0 Credits (*year-long*)

The third and fourth years of art become highly personalized as students work to create and refine a strong art portfolio. Students continue to define their artistic voice by creating other self-portraits, and social statements, and reworking classical masterpieces. Students may revisit past works with better technical skills and comprehension of *The Elements of Art* and *Principles of Design*. These efforts are followed up with the creation of an online portfolio and artist statement that is ready for college or freelance presentation.

Prerequisite:

A minimum of 3.0 credits in Art I, II, III. Instructor approval required.

Considerations:

Class enrollment is limited. This program is open to seniors only. Advanced Art II is an option for students who have met all the prerequisites to take Advanced Art I as a junior, instructor approval required.

Pottery I

+ Grades 10-12

+ 1.0 Credits (*year-long*)

This is a beginning ceramics-pottery class for individual students who are interested in acquiring knowledge and skills in clay. Students will be introduced to all basic aspects of sculptural and functional pottery as they learn the basics of hand-building (pinch pot, coil, and slab) and wheel-throwing techniques.

Prerequisite:

Art I or Photography (one semester minimum) and instructor approval.

Considerations:

Class enrollment is limited.

Pottery II

+ Grades 11-12

+ 1.0 Credits (*year-long*)

This is an intermediate ceramics-pottery class for individual students who have firm throwing and building skills. Students will be stretched to perfect their craftsmanship and skills in the basic aspects of sculptural and functional pottery. They will also go on to create more intermediate forms with a combination of wheel and hand-throwing along with more technical difficulty in carving and glazing as they move beyond the basics of clay.

Prerequisite:

Pottery I or meeting with an instructor if a transfer student.

Considerations:

Class enrollment is limited.

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Textile Arts

- ✦ Grades 9-12 ✦ 0.5 Credits (*semester-long*)

This semester-long art elective course introduces the world of textiles, fibers, design, and use. Student projects will accompany each unit, demonstrating fundamental techniques in embroidery, hand sewing, and machine sewing along with other aspects of textile arts. At least one field trip will be planned; with possible other outings to places such as the fabric/craft store, and quilt shops. Students will also complete projects for charity.

Considerations:

Class enrollment is limited.

Advanced Textile Arts

- ✦ Grades 10-12 ✦ 0.5 Credits (*semester-long*)

This semester-long art elective allows students to continue to explore the world of textiles, fibers, design, and use. Student projects will accompany each unit, demonstrating intermediate techniques in sewing and other aspects of textile arts such as sizing and designing. There will be at least one field trip, with possible other outings to places such as the fabric/craft store, and quilt shops. Guest speakers/artists may be brought in periodically to demonstrate and discuss various aspects of textile arts. Students will also complete projects for charity.

Prerequisite:

Passing grade in Textile Arts with at least a B.

Considerations:

Class enrollment is limited.

Yearbook

- ✦ Grades 9-12 ✦ 1.0 Credits (*year-long*)

In this class students will produce a school yearbook. Using Adobe InDesign & Photoshop, and Jostens Yearbook Avenue, students will be responsible for taking and collecting photographs, organization and layout of the yearbook, and writing captions and articles for the yearbook.

Prerequisite:

Previous experience in Yearbook, and/or approval from the instructor.

Considerations:

Class enrollment is limited. Students are enrolled in this course for the full year. Mid-year drops will not be permitted due to the team nature of producing the yearbook.

Journalism (*not currently offered*)

- ✦ Grades 9-12 ✦ 0.5 Credits (*semester-long*)

Journalism students will learn important journalism skills in the areas of news writing, editing, photography, layout / design and other elements of production. Students will learn how to pitch, report, and produce photo-driven news stories. Students will demonstrate critical thinking, independence, and creativity appropriate to the role of journalism in a democratic society.

Prerequisite:

Previous experience in journalism and/or approval from the instructor.

Considerations:

Class enrollment is limited. This course requires some outside class time and high responsibility on the student's part.

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Creative Writing *(not currently offered)*

+ Grades 9-12

+ 0.5 Credits *(semester-long)*

Creative Writing students will read, critique, and compose original poetry, essays, short fiction, and creative non-fiction. Students will examine the works of published writers as well as peers to discover, expand, and refine their own skills, voice, and repertoire.

Prerequisite:

Approval from the instructor.

Considerations:

Class enrollment is limited. This course requires some outside class time and high responsibility on the student's part.

Band

+ Grades 9-12

+ 1.0 Credits *(year-long)*

+ Purchase of formal attire required.

+ Fee: Additional Trip Costs

This class focuses on the reading, interpretation and performance of instrumental music. While this class is primarily a performance group, some class time will be spent discussing music theory, music history, and style, as they relate to the music being learned. We will also spend time on sight reading as well as concert etiquette.

Concerts are usually scheduled well in advance so that arrangements can be made early. All students should expect to commit some "out of school" time for these concerts. We are also scheduled for performances away from our school as well as our in-house concerts. This typically includes performances with the 'Pep Band' for various athletic events, as well as our Christmas in Olde Towne concert.

Considerations:

Women will purchase a concert dress and men will need a 5-piece black tuxedo with BLUE bowtie and vest outfit. These are to be purchased through the school (for consistency) and will be worn at primary concerts throughout the year.

Jazz Band

+ Grades 9-12

+ 0.5 Credits *(year-long)*

+ Purchase of formal attire required.

Jazz Band is our premier instrumental ensemble. It engages with styles from Dixieland, Swing, Bebop, Blues, Funk, Rock, Latin to Modern. The focus is not only on style and interpretation, but improvisation and the theory behind it. This ensemble performs for concerts, dances, and competitions.

Prerequisite:

Audition is required.

Considerations:

This course meets during WIN.

String Ensemble

+ Grades 9-12

+ 0.5 Credits *(year-long)*

+ Purchase of formal attire required.

This ensemble focuses on music for strings, from Classical to Jazz to Modern styles. We focus on reading and interpretive skills and perform alongside the other instrumental ensembles.

Prerequisite:

Audition is required.

Considerations:

This course meets during WIN.

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Concert Choir

- + Grades 9-12
- + 1.0 Credits (*year-long*)
- + Purchase of formal attire required.
- + Fee: Additional Trip Costs

Vocal music courses are designed for singers with varying ability who desire to be exposed to a variety of music from numerous time periods and cultures. Both accompanied and acappella music will be explored, as well as various languages. This is primarily a performance group; however, some class time will be spent discussing music theory, performance and style as they relate to the music being learned. We will also spend time learning proper vocal techniques as well as concert etiquette.

Considerations:

Open to anyone who wants to sing.

Ensemble

- + Grades 10-12
- + 1.0 Credits (*year-long*)
- + Purchase of formal attire required.
- + Fee: Additional Trip Costs

Vocal music courses are designed for singers with varying ability who desire to be exposed to a variety of music from numerous time periods and cultures. Both accompanied and acappella music will be explored, as well as various languages. This is primarily a performance group; however, some class time will be spent discussing music theory, performance and style as they relate to the music being learned. We will also spend time learning proper vocal techniques as well as concert etiquette.

Prerequisite:

Must complete one year of Concert Choir. Group is chosen by audition with auditions being held in the spring of the prior school year.

Considerations:

Ensemble is a vocal group designed to challenge the more advanced vocalist. Concerts will include other local performances / competitions on top of the regularly scheduled choir concerts.

Culinary Arts

- + Grades 9-12
- + 0.5 Credits (*semester-long*)

This course will develop students' abilities and confidence in their cooking knowledge and application through proprietary methodology developed by Chef Steve Mericle, A Culinary Institute of America graduate with 40 years experience in the Hospitality industry. The methodology teaches students why they use certain procedures and techniques, and above all teaches them to challenge themselves and their thinking process.

Drama I

- + Grades 9-12
- + 0.5 Credits (*semester-long*)

This course is designed to introduce students to the discipline and art of theater. In this class, students will explore the various aspects of theater through a Christian worldview lens. Through this class, students will learn basic theater terminology, theater history, and explore the creative process for the student actor which includes character development, improvisation, movement, voice and diction. There will also be time set aside to learn about set design, makeup, and costumes. By the end of the semester, students will be able to critically analyze pieces of theater literature and live performances using their knowledge of theater, and in turn perform material in a way which seeks to magnify their Creator.

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Drama Production

+ Grades 10-12

+ 0.5 Credits (*semester-long*)

+ \$175 Course Fee

This course is the study and application of the backstage elements of a theater production, including scenic design and construction, lighting design and implementation, costume & makeup design and construction, props construction, and stage management. Students will explore their role within a theater production and how their individual gifts and talents can be used to support productions in a way which glorifies and magnifies God.

Prerequisite:

Instructor approval

Speech and Debate

+ Grades 9-12

+ 0.5 Credits (*semester-long | fall semester*)

This course will develop students' abilities and confidence in effectively communicating ideas through different speech techniques. It will strengthen independent research skills and introduce philosophies and language around competitive debate, building confidence in arguing a side of a resolution.

Technology Department

The primary purpose of Technology education is to equip students with the skills to use multiple platforms of technology. Technology provides programs and tools to allow for organization, inquiry-based learning, and problem-solving strategies. We seek to prepare students for technological expectations in both academic and professional settings. Students need to be instructed on the appropriate use of technology, and the wisdom of using technology as a positive tool. Students will be taught to avoid anything unwholesome on the internet. Rather, technology will be a vehicle that will allow the students to create and learn in accordance with the gifts that God has given them.

STEM 1.0

+ Grades 9-12

+ 1.0 Credits (*year-long*)

In STEM 1.0, students will explore computer programming, electronic embedded systems, engineering design, and applied mathematics. There is a focus on gaining 21st century skills like time management, resource allocation, teamwork, problem solving, and communications. Students will also learn about basic C programming using RobotC using a high-end simulation environment enabling students, without robots, to learn programming. And they will build a fully functional VEX Claw Bot and utilize basic engineering using Vex Robotics mechanical components.

Considerations:

Class enrollment is limited. Freshmen must be pre-approved.

STEM 2.0

+ Grades 10-12

+ 1.0 Credits (*year-long*)

In STEM 2.0 students will continue developing basic syntax and commands programming and further develop sound engineering principles and solve more complex problems using advanced programming skills. They will extend their knowledge of the programming language and platform for the Arduino Ecosystem. They will program a microprocessor for robotics-based projects. And students will gain proficiency in programming language and syntax, navigate 3D modeling and slicing software. Students will build 3D printing projects from prototype to production.

Prerequisite:

Completed STEM 1 with an average of at least 90% (and a 90% Team Score). Demonstrated project-based skills and working together with greater autonomy; capability in 3D prototyping.

Considerations:

Class enrollment is limited.

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STEM 3.0

+ Grades 11-12

+ 1.0 Credits (*year-long*)

Students continuing on to STEM 3.0 will build and compete in teams in advanced technology projects/ competitions. They will continue developing basic syntax and commands programming and further develop sound engineering principles and solve more complex problems using advanced programming skills. And they will further develop in the programming language and platform for the Arduino Ecosystem. Students will build 3D printing projects from prototype to production.

Prerequisite:

Completed STEM 2 with average of at least 90%; Demonstrated project-based skills and working together with greater autonomy; capability in 3D prototyping.

Considerations:

Class enrollment is limited.

Digital Photography I

+ Grades 9-12

+ 0.5 Credits (*semester-long*)

Students will study the fundamentals of digital photography including camera controls and functions, frame composition, digital editing, image manipulation, and finishing techniques. This class will teach the students to think creatively and learn the visual language of photography.

Considerations:

Class enrollment is limited.

Graphic Design I

+ Grades 9-12

+ 0.5 Credits (*semester-long*)

Students will use Adobe Photoshop to edit photographs, create artistic imagery, and make Web graphics. They will use Adobe Illustrator to create illustrations, logos, and Web graphics. Finally they will use Adobe InDesign to create publications such as advertisements, brochures, and books. Student's will be able to work professionally within a design team, identify numerous design careers, and evaluate designs (for audience, meaning, and effectiveness). More importantly students will know that they can glorify God through any job, and keep their identity in Christ as they produce work for others.

Considerations:

Class enrollment is limited.

Graphic Design II

+ Grades 10-12

+ 0.5 Credits (*semester-long*)

The primary purpose of this course is to equip students with the skills to move forward in the field of graphic design and marketing. Students are expected to have a basic knowledge of Adobe Photoshop, Illustrator, and Indesign. They will be pushed to explore new tools within each of the programs. Students will be given hard deadlines as they create printables for the school and school events. They will help design homecoming, spring formal, musical, and play posters. They will also help with spirit day and house announcement posters. Ultimately, by the end of the class each student will have a portfolio with a minimum of 10 items of their own work and 3-5 items of collaborative work. The portfolio will consist of both digital items as well as printed items. More importantly students will know that they can glorify God through any job, and keep their identity in Christ as they produce work for others.

Prerequisite:

Graphic Design I

Considerations:

Class enrollment is limited.

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Video Game Programming I

+ Grades 9-12

+ 0.5 Credits (*semester-long*)

This class will touch on technical and aesthetic concepts of creating video games. It will cover the basics of creating a video game including graphics, background music, and the physics inside the game. Student's skills will be refined through a series of lectures, assignments, tutorials, and projects.

Considerations:

Class enrollment is limited. Recommended to complete Art I prior to class for concepts in elements and principles of design.

Introduction to Programming: Python

+ Grades 10-12

+ 0.5 Credits (*semester-long*)

This class will introduce students to the programming language of python. We will use different projects to understand the underlying logic of functions and classes. There will be coding quizzes via paper and pencil for the syntax of Python.

Prerequisite:

Algebra I

Considerations:

Concurrently taking Algebra II is highly recommended, as many projects will require higher mathematical reasoning skills.

Video Production

+ Grades 9-12

+ 0.5 Credits (*semester-long*)

This class will touch on the technical and aesthetic concepts of shooting and editing video. It will cover the basics of creating a video from conception and scripting to out-putting a final project. This course introduces students to Adobe professional software (Adobe Premiere Pro, Adobe Audition, Adobe Photoshop, After Effects, and Adobe Character) and classic film theory concepts. Students' skills will be refined through a series of lectures, assignments, field exercises, critical evaluations of production, and composition principles, along with creating several video compositions.

Considerations:

Class enrollment is limited.

Broadcasting

+ Grades 10-12

+ 1.0 Credits (*year-long*)

Students will participate in the creation of broadcasts and videos that involve the athletic and student life of Forge Christian. All students will be involved in the video making process and will be required to produce content in regards to events that take place during the school year. Students may also participate in Live Broadcasts of athletic and musical events throughout both semesters.

Prerequisite:

Video Production

Forge Christian High School

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Physical Education Department

Physical Education is concerned with the growth, development, and the general well-being of every individual. It teaches physical motor skills, improving physical fitness, self-discipline, leadership and cooperation, enhancing self efficacy, stress reduction, and strengthening peer relationships. The focus is on healthy participation, while teaching students the basic skills needed for future fitness, athletic, and health success. It promotes long-term health and wellness by making health and fitness fun, and by incorporating lessons on the importance of movement for overall health. It provides activities where self-expression, self-confidence, and physical and mental poise can be attained through perseverance and mastery of physical, mental, and social tasks. It should impart a high regard for participating in regular physical activity, and gives students the knowledge of the benefit of and a value for the role of a healthy lifestyle.

Physical Education is a 9th grade requirement with credit being earned by participation in a PE class or a high school sport. Students who do not earn any PE credit in 9th grade are required to take PE in 10th grade. PE credits can only be completed by: a course of study at Forge (Strength & Conditioning, Athletic Training, or Sports Team Management) or participation in a sport offered at Forge. We allow CHSAA sanctioned sports (see *Sports / Athletics*) and some competitive sports participation.

Athletic Trainer

+ Grades 9-12

+ 0.25 Credits (*semester-long*)

As athletic trainers, students will learn the elements involved in setting up and managing athletic events at the high school level. Secondly, this course will prepare students to function as athletic trainers for games and practices. Participants will be scheduled to tape and provide initial treatment of injuries and support for athletes rehabilitating injuries. Students are encouraged to become first aid and CPR certified. All student trainers will be graded on attendance at games and class involvement. Students are required to attend all home games and remain until dismissed by the head trainer.

Prerequisite:

Instructor approval required.

Considerations:

Students taking Athletic Trainer may also take a Study Hall OR be an Assistant (cannot do all 3 in a semester). Students are encouraged to become first aid and CPR certified. All student trainers will be graded on attendance at games and class involvement. Students are required to attend games as assigned by the head trainer.

Strength and Conditioning

+ Grades 9-12

+ 1.0 Credits (*year-long*)

This course will introduce and teach students the proper technique and mechanics within building strength for both athletics and health and wellness. Students will learn and develop the skills within Olympic core lifts, dynamic warm-up, core strengthening and flexibility.

Sports Team Management

+ Grades 9-12

+ 0.25 Credits (*sport season-long*)

This sport-specific role is for students interested in managing an athletic team. Details of this role vary by sport and must be discussed with the Coach(es) of said sport.

Prerequisite:

Coach approval required.

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Sports / Athletics

+ Grades 9-12

+ 0.25 Credits / Sport

+ Fee: See Tuition & Fee Schedule

Sports eligibility requires students to be enrolled in a minimum of 5 courses that each earn 0.5 credit/semester. For participation in CHSSA-sanctioned sports at another high school, see the school registrar for further information.

Fall Sports

- Cheerleading (*girls, begins in June*)
- Cross Country (*boys/girls, begins mid-August*)
- Football (*boys, begins mid-August*)
- Golf (*boys, begins early August*)
- Soccer (*boys, begins mid-August*)
- Softball (*girls, begins mid-August*)
- Volleyball (*girls, begins mid-August*)

Spring Sports

- Baseball (*boys, begins mid-February*)
- Golf (*girls, begins mid-February*)
- Soccer (*girls, begins mid-February*)
- Track (*boys/girls, begins mid-February*)
- Volleyball (*boys, begins mid-February*)

Winter Sports

- Basketball (*boys/girls, begins mid-November*)
- Wrestling (*boys, begins mid-November*)
- Basketball (*boys/girls, begins mid-November*)

Miscellaneous

Senior Capstone Course

+ Grade 12

+ 1.0 Credits (*year-long with Honors option*)

- Select a topic, profession, or social problem of personal interest
- Connect their projects to community issues or problems, and to integrate outside-of-school learning experiences
- Demonstrate biblical illumination by identifying specific biblical truths with a connection to the capstone topic by referencing key Bible verses aligned with biblical themes of creation, fall, redemption, or restoration along with efficient evaluation and analysis of supporting data with a personal application.
- Utilize problem solving skills by using both critical and creative thinking, to assess, plan and solve an opportunity, challenge or problem, and finally to evaluate its overall effectiveness.
- Develop a proposal to be approved by the capstone advisory committee
- Conduct research on the subject and develop a thesis statement
- Apply skills or investigate issues across many different subject areas or domains of knowledge.
- Demonstrate collaboration, with subject matter experts or advisors, by soliciting the contribution of useful ideas, listening, and demonstrating organization along with the efficient use of time while focused on tasks to achieve the goal.
- Maintain a portfolio of findings, results and conclusions to demonstrate effective clear command of written language through organizing and developing their thoughts at a considerable depth and supported by highly relevant reason and well-chosen examples.
- Deliver an oral presentation on the final project to the capstone advisory committee who collectively evaluates the demonstration of effective oral communication using spoken words, tone of voice, body language, gestures, facial expressions, and visual aids to convey ideas.

Considerations:

A personally developed, multifaceted project, which serves as a culminating academic and intellectual experience for students. The student-directed capstone project will allow the application of problem solving/critical thinking, and developing skills such as oral communication, research, media literacy, planning, self-sufficiency, and goal setting. This experience will help prepare students for college, modern careers, and adult life.

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Assistant (Teacher or Office)

+ Grades 10-12

+ 0.25 Credits (*semester-long*)

Prerequisite:

Teacher or Office approval required.

Considerations:

The responsibilities given to student assistants will vary based on the teacher or office personnel to whom they are assigned. Assistants will be graded according to their level of performance of the tasks required by their supervising staff member.

Study Hall

+ Grades 9-12

+ 0 Credits

Considerations:

All students will automatically have a Study Hall (WIN) in combination with their lunch hour during the school week. Students may submit a request for an additional study hall period if they feel it is necessary for their academic success.

Dual Credit Course Information

Our Dual Credit courses are offered through Colorado Christian University. These courses are approved by the university and provide motivated high school students the opportunity to earn college credit and develop skills and study habits that are vital to success in college. A student's willingness to take these rigorous college-level courses is highly regarded by many colleges and universities, and distinguishes them in the college admissions process.

Forge is pleased to offer the following Dual Credit courses:

Course Title	CCU Academy Equivalencies	Credits	Category	Length
Honors New Testament Survey	BIB114 New Testament	3	Biblical Studies	FY
Honors Biblical Interpretation	BIB230 Interpreting the Bible	3	Biblical Studies	S
Honors Anatomy & Physiology S1	BIO201/211 Human Anatomy & Physiology I w/ Lab	4	Science	S
Honors Anatomy & Physiology S2	BIO202/21 Human Anatomy & Physiology II w/ Lab	4	Science	S
Honors Chemistry Lecture/Lab	CHM121/131 General Chemistry w/ Lab	5	Science	FY
Honors English 11	ENG102 English Composition	3	Communication	FY
Honors Senior Capstone	ENG106 Investigative Writing	3	Communication	FY
Honors English 12	ENG201 Introduction to Literature	3	Arts/Humanities	FY
Honors U.S. History S1	HIS205 American History	3	Social Studies	S
Honors U.S. History S2	HIS206 The Making of Modern America	3	Social Studies	S
Honors Algebra 2	MAT111 College Algebra	3	Mathematics	FY

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Course Title	CCU Academy Equivalencies	Credits	Category	Length
Honors Calculus AB	MAT141 Calculus I	4	Mathematics	FY
Honors Statistics	MAT212 Statistics and Their Application	3	Mathematics	FY
Honors/AP Calculus BC	MAT241 Calculus II	4	Mathematics	FY
Honors Worldviews & World Religions	PHIL205 Worldviews	3	Arts/Humanities	S
Honors U.S. Government & Politics	POL207 Introduction to American Politics	3	Social Studies	S
Honors Economics	ECO215 Economics	3	Social Science	S
Honors Theology in Modern Life	THE201 Introduction to Theology	3	Biblical Studies	S
AP Physics C	AP only CCU gives 5 credits for a score of 4 or 5 on an AP exam.	5	Science	FY

S = Semester Course | FY = Full Year Course

Dual Credit courses are designed to provide a more in-depth and faster-paced approach to a subject, so students can expect a greater time commitment in terms of reading, writing and analysis of class materials. There is a rigorous approach to grading in Dual Credit courses and an "A" represents exceptional work at this advanced level. These courses are also weighted (e.g., an A = 5.0 instead of 4.0).

Students are encouraged to take into consideration their expected course load and extra curricular activities for the next school year when choosing to enroll in Dual Credit classes. In our experience, students who are willing to work hard, are self-disciplined, have good organizational skills, and demonstrate ability in abstract reasoning are most successful in Dual Credit courses.

IMPORTANT | All parents/guardians and students, please read carefully:

- Student enrollment in Dual Credit courses will be contingent upon final approval by the instructor.
- Students may enroll in these courses at Forge without enrolling for Dual Credit with CCU.
- Students do not need to be planning to attend CCU for college to earn credit.
 - It will be at the discretion of the receiving post-secondary institution whether they will award college credits for these courses. It is strongly recommended that students and parents/guardians investigate the transferability of these credits to any colleges they may consider attending.
- Students in Dual Credit courses are required to take all exams for these courses.
- Excessive absences or tardies may result in dropping the weighted GPA from the transcript, loss of the "honors" designation on the transcript, and loss of Dual Credit from CCU. No refunds will be given in this situation.
- Students enrolled in Dual Credit classes must pass the course with at least a "C" in order to earn college credit (a "C" average for year-long courses).
- Students who still wish to take the AP exams can do so. We will order and administer the AP tests in the spring semester for those who chose this option. The cost is approximately \$110/per exam.