



Christian Academy

English Station 2023-2024

High School Course Description Catalog

700 S. English Station Road Louisville, KY 40245 (502) 244-3225

To: Students
From: Counselors

This booklet has been prepared to assist you in developing a program of study to meet your individual needs and educational goals.

CAL offers academic programs to prepare students to earn one of three types of diplomas: Standard, College Prep, or Honors. The Standard Program provides a basic traditional education. The College Prep Program is more intense and includes course work required by major colleges and universities. The Honors Program provides a challenging course of study for top students and includes courses that offer the opportunity to earn college credit while at CAL. Students are not restricted to taking courses in one program. They may take courses from a combination of programs as long as they are qualified.

Approach the course selection process seriously. You are urged to carefully examine the course offerings in this booklet and complete your Four-Year Plan so you can be sure to fulfill the requirements to graduate with the diploma you have chosen. With the assistance of teachers, counselors and parents, give careful consideration to all available options. Strive to develop a program to explore and challenge your individual abilities and talents.

Scheduling Courses

Plan Ahead

1. **READ** the course description **BEFORE** selecting a subject to

be sure that it fits your needs and interests.

2. **CONSULT** with teachers in specific subject areas for more detailed information, including recommendations for placement in honors courses.
3. **BALANCE** your course selections. Avoid crowding all of your academic courses into your sophomore and junior years. Allow yourself the freedom to take elective subjects each year—they are a valuable part of your total education.
4. **REMEMBER** to make certain you have satisfied the prerequisites for taking a particular course.
5. **SELECT** alternate courses in case it is impossible to get your first choice.
6. **BE SURE** to take courses which will give you the best possible preparation for your future plans. Take advantage of the offerings available to you.

Know the Requirements

1. Know your graduation requirements before you start planning.
2. If you have questions about credits for graduation or college or career entrance, see your counselor.

How to Register

Current students will register for their classes online through the FACTS Family Portal.

Current 8th grade students and high school students must register online in March, watch for an email.

1. Please be sure you have a working log-on and password before these dates. If you do not have a log-on and password, please contact the high school office. During the registration dates, you may go online and make changes to your requests. After these dates, changes can only be made by contacting the high school office.

2. New students to CAL must register using a Course Request Form. These forms will be mailed to all newly accepted students (or can be picked up from the high school office) and should be returned to the high school office as soon as possible upon acceptance.

Adding/Dropping

A student may add and drop classes if there is an opening in the class the student wishes to enter. Requests for schedule changes should be directed to the counselor. Note the potential penalty involved in dropping classes:

✓ 1st week of the 1st Semester—May add or drop with no penalty. Any fees paid will be refunded.

✓ 2nd—6th week of 1st Semester—Students may be withdrawn passing (WP) or withdrawn failing (WF). Students may or may not be allowed to add a course at this time. This *does not* affect student's GPA. If a fee was paid for the class, no fee will be refunded.

✓ After the 9th week of the semester students may be withdrawn with special permission from the principal. If a fee was paid for the class, no fee will be refunded.

BIBLE DEPARTMENT

Foundations of Faith ½ credit – 1st semester

Grade 9

Regular Grading Scale

This class will focus on inviting students to build a solid foundation of faith in the gospel of Jesus Christ. Students will examine the Christ-centered theistic worldview in comparison to other major worldviews and gain an understanding of what it means to apply God's invitation to love Him with all of our heart, soul, and mind. Students will be challenged to apply the definitions of faith and truth in their examination of the Bible's claim to be God's collected book of inerrant revelation.

The Gospel Story ½ credit – 2nd semester

Grade 9

Regular Grading Scale

This class will focus on inviting students to build a solid foundation of faith in the gospel of Jesus Christ. The course will provide the opportunity to gain an understanding of the whole of Scripture in view of the mission of God and the gospel of Jesus Christ.

Life of Christ ½ credit – 1st semester

Grade 10

Regular Grading Scale

This class will focus on inviting students to a maturing faith in the gospel of Jesus Christ. Students will examine and apply the concept of Christ's role as our prophet, priest, and king. Students will gain an understanding of Jesus as the fulfillment of prophecy and will not only understand His place in history, but also His relevance to our lives today. Ultimately, the hope is that Jesus' life and gospel message will transform students' lives as they gain a greater understanding of who Christ is in their individual lives and personalize their response to Him.

The Church ½ credit – 2nd semester

Grade 10

Regular Grading Scale

This class will focus on inviting students to a maturing faith by exploring the Church's role in advancing the gospel of Jesus Christ throughout the world. Students will gain an understanding of how Christians, empowered by the Holy Spirit, have continued the mission of Christ from the early church into the

contemporary church through a study of the Acts of the Apostles, the Epistles, and church history. Students will be challenged to understand the need to be an integral member of Christ's Church today.

Spiritual Formation ½ credit – 1st semester

Grade 11

Regular Grading Scale

This class will focus on inviting students to a maturing faith through exploring the traditional Christian disciplines and God's mission throughout the world. Students will examine what God is doing in our world with an emphasis on God's heart and mission as recorded throughout Scripture. Ultimately, the student will be challenged to apply the gospel in their own life through the spiritual disciplines and participate in proclaiming the gospel throughout the world.

Worldviews ½ credit – 2nd semester

Grade 11

Regular Grading Scale

This class will focus on inviting students to a maturing faith by employing wisdom in forming and defending a Christian worldview based on how the gospel of Jesus Christ responds to life's ultimate questions. Students will be challenged to respond to logical obstacles to faith with a reasonable and respectful defense.

Contemporary Issues 1 ½ credit – 1st semester

Grade 12

Regular Grading Scale

This class will focus on inviting students to a maturing faith by examining and discussing major social and cultural issues in light of the gospel. In this semester, students will be challenged to examine and live out a Christian worldview in the following areas: identity, pornography, abortion, human trafficking, and personalities.

Contemporary Issues 2 ½ credit – 2nd semester

Grade 12

Regular Grading Scale

This class will focus on inviting students to a maturing faith by examining and discussing major social and cultural issues in light of the gospel. In this semester, students will be challenged to examine and live out a Christian worldview in the following areas: Self-harm, marriage, dating, divorce,

singleness, racism, homosexuality, and gender.



The School of Spiritual Formation represents an advanced pathway for Christian Academy of Louisville high school students who desire a more rigorous discipleship experience. The school equips and empowers students through unique, curated spiritual experiences, courses, and projects to grow as spiritual leaders who bring the kingdom of God to their present and future callings. An application and interview process are necessary to be accepted in The School of Spiritual Formation.

+Growing Wise

School of Spiritual Formations (SSF)

½ credit – 1st semester

Grade 9,10,11,12

Regular Grading Scale

Prerequisite: Pathway application accepted. Limit 15 students

This course will equip students with a biblical understanding of wisdom and empower them to order their lives by it. Students will examine, analyze, discuss, and apply to their lives key biblical texts, the Apostles Creed, and themes on wisdom from contemporary authors. Through seminar discussion, rich projects, a curated class field trip, consistent rhythms of spiritual disciplines, and memorization challenges students will evaluate how we safely glean wisdom from the church and from worldly culture. Finally, students will synthesize and demonstrate their learning by creating and implementing a plan for growing wise during high school. This course is only available for students in the School of Spiritual Formation. A fee is charged for this course.

+Diving Deep Into Scripture

School of Spiritual Formations (SSF)

½ credit – 2nd semester

Grade 9,10,11,12

Regular Grading Scale

Prerequisite: Pathway application accepted. Limit 15 students

This course will equip students with a deeper understanding of how to study the Bible and empower them to teach others to do so as well. Through repeated guided practice, students will take on various roles in reading,

studying, and discussing books from both the Old and New Testaments. Finally, students will synthesize their learning by designing a Bible study on a section of a biblical book of their choosing. This course is only available for students in the School of Spiritual Formation. A fee is charged for this course.

+Taking the Lead

School of Spiritual Formations (SSF)
½ credit – 1st semester

Grade 10,11,12

Regular Grading Scale

Prerequisite: *Growing Wise, Diving Deep into Scripture. Limit 15 students.* This course will equip students with a biblical understanding of Christian leadership and empower them to take the spiritual lead in whatever circles they enter. Students will examine, analyze, discuss, and apply to their lives key biblical texts including the book of Daniel, the 10 Commandments, and contemporary Christian texts. Through seminar discussions, rich projects, a curated class trip to the Gethsemane monastery, consistent rhythms of spiritual disciplines, and memorization challenges students will learn to “take the lead.” Finally, students will demonstrate their learning by proactively planning a local mission and leadership experience to implement in their remaining time at CAL. This course is only available for students in the School of Spiritual Formation. A fee is charged for this course.

+Expanding God’s Kingdom

School of Spiritual Formations (SSF)
½ credit – 2nd semester

Grade 10,11,12

Regular Grading Scale

Prerequisite: *Growing Wise, Diving Deep into Scripture. Limit 15 students.* This course will equip students with a theological understanding of the kingdom of God and empower them to radically live it out in a broken world. Students will examine, analyze, discuss, and apply to their lives key biblical texts and contemporary authors on the kingdom of God. Through seminar discussions, rich projects, guest speakers, a challenging class service trip to a college campus, consistent rhythms of spiritual disciplines, and memorization challenges students will explore how the kingdom of God can bring truth, beauty, and goodness to even the most broken places of our world. This course is only available for students in the

School of Spiritual Formation. A fee is charged for this course.

BUSINESS & COMPUTER DEPARTMENT

+ACT Prep Course / Study Hall

½ credit

Grades 11, 12

Regular Grading Scale

Prerequisites: *Algebra II or taken concurrently*

This course covers the mechanics, concepts, and strategies of the ACT. Students will practice test questions illustrating concepts of timing, pacing, guessing and test-taking strategies.

This is a full year course consisting of a semester of ACT prep and a semester of study hall.

+Computer Science 1

1 credit

Grades 10 – 12

Regular Grading Scale

This course is a computer programming class that will be taught online by the computer teacher at our CAI campus. Powerpoint lessons and videos will be posted in Canvas. The programming language used is Java and the application to program is Eclipse. Students learn how to solve problems through the design, creation and implementation of programs. Students learn the benefits of studying computer programming and possible career opportunities. The teacher is available by phone, email, and Canvas messaging.

+AP Computer Science A

1 credit

Grades 11, 12

AP Grading Scale

This course will be taught online by the computer teacher at our CAI campus. This course is equivalent to the first semester of a college-level computer science course. It involves developing the skills to write programs to solve specific problems. The course emphasizes the design issues that make programs understandable, adaptable, and reusable. The development of useful computer programs is used as a context for introducing other important concepts in computer science, including the development and analysis of algorithms, fundamental data

structures, and the study of standard algorithms and typical applications. An understanding of the basic hardware and software components of computer systems and the use of these systems are integral parts of this course. A testing fee is charged for this course.

+AP Computer Science Principles

1 credit

Grade: 10, 11, 12

AP Grading Scale

This course will be taught online by the computer teacher at our CAI campus. Students will learn the essential ideas of computer science and show how computing and technology can influence the world around us. Students will creatively address real-world issues and concerns while using the same processes and tools as artists, writers, computer scientists, and engineers to bring ideas to life. Students are provided with a “futureproof” foundation in computing principles so they are adequately prepared with the knowledge and skills to participate in our increasingly digital society. A testing fee is charged for this course.

+Intro to Business

1 credit

Grades 11, 12

Regular Grading Scale

This course is designed for students who have a genuine interest in business. Introduction to Business is a college level elective that provides an introduction to many of the business courses that students will take in college. The course establishes basic foundations for the exploration and further study in business courses and inquiry of possible career choices by utilizing an experienced based curriculum. Many universities require this course for the freshman year of a business curriculum. The fall semester is a study of the business environment, ethics, communication, and an introduction to the stock market. The spring semester will focus on financing a business. Finance and accounting, marketing, management, and entrepreneurship are example topics. Students will also explore career options in these areas. Students will learn about the stock market. A testing fee is charged for this course.

+Dual Credit / Dual Enrollment Online

1 credit

Grade 11, 12

Prerequisite: *3.00 GPA or as determined by the college*
Juniors and seniors have the opportunity to earn college credit in a

variety of courses with numerous colleges and universities. Students will have a study hall to complete on-line course work. Students may apply for the Dual Credit Scholarship with the Kentucky Higher Education Authority (KHEAA) for two courses, at approved colleges in state. If the course operates on an eight-week term, students will be required to complete two courses per semester. If the course operates on a sixteen-week term, students will be required to complete one course per semester. The college or university will provide the grade to CAL for the course. Students need to have courses approved by their counselor. Courses must be compatible with Chromebooks. These courses will not replace a CAL course. Families will be responsible for all fees and materials associated with these courses.

+Dual Credit / Dual Enrollment Off Campus

**1 credit
Grade 12**

Prerequisite: 3.00 GPA or as determined by the college

Seniors have the opportunity to earn college credit in a variety of courses with numerous colleges and universities. Students will attend a class off campus, and may leave school for up to two blocks. Students can apply for the Dual Credit Scholarship with the Kentucky Higher Education Authority (KHEAA) for two courses, at approved colleges in state. If the college course operates on an eight-week term, students will be required to complete two courses per semester. If the course operates on a sixteen-week term, students will be required to complete one course per semester. The college or university will provide the grade to CAL for the course. Students need to have courses approved by their counselor. These courses will not replace a CAL course. Families will be responsible for all fees and materials associated with these courses.

+Internship

**1 credit
Grade 12**

Regular Grading Scale

Prerequisite: By teacher approval and/or recommendation

Limited by available space

This program is open to senior students who are considering a career in elementary education, middle school education, physical education, library science or medical fields. It is designed to offer the student exposure to and experience in elementary or middle school classrooms, physical education,

media center, athletics or Providence School..

+Senior Co-Op

1 credit

Grade 12

Regular Grading Scale

Prerequisite: By teacher approval and/or recommendation; good attendance and behavioral record

The Senior Cooperative Education program is designed to provide seniors with the opportunity to bridge the gap between education and employment. By stepping outside the classroom environment, the student experiences the culture of other organizations and real-life expectations in the workplace. Grades are determined in part by evaluations from the employer/supervisor. Students must supply their own transportation and place of employment or supervision.

vocabulary, and mass media. Students will keep organized notes, perform basic research, complete at least one formal composition per quarter, in addition to informal writing assignments, and write a variety of expository essays.

☛Honors English II

1 credit

Grade 10

Honors Grading Scale

Prerequisites: "A" or "B" in previous English I class; teacher recommendation, placement exam, and acceptable stanine/percentile on a nationally recognized achievement test

Students will study the same content areas as CP English II with additional requirements in literature and composition.

☛College Prep English III

1 credit

Grade 11

Regular Grading Scale

Prerequisites: English II

Students will study the following content areas: grammar, composition, literature, research, study skills, vocabulary, and mass media. Students will keep organized notes and compose a literary analysis research paper in addition to other requirements in literature and composition.

☛Honors English III

1 credit

Grade 11

Honors Grading Scale

Prerequisites: "A" or "B" in previous English II class; teacher recommendation, placement exam, and acceptable stanine/percentile on a nationally recognized achievement test

Students will study the same content areas as CP English III with additional requirements in literature and composition, including a literary analysis paper.

☛AP English Language and Composition

1 credit

Grade 11

AP Grading Scale

Prerequisites: Teacher recommendation, placement exam, acceptable PSAT and national test scores

Students will learn to write in a variety of forms—narration, exposition, satire, and argumentation—and on a variety of subjects. Students will learn how to use grammatical conventions to develop stylistic maturity in their prose. Students will analyze both fiction and non-fiction for style, theme, and voice in order to identify writers' strategies and

ENGLISH DEPARTMENT

☛College Prep English I

1 credit

Grade 9

Regular Grading Scale

Students will study the following content areas: grammar, composition, literature, research, study skills, vocabulary, and mass media. Students will keep organized notes, perform basic research, and complete at least one formal composition per quarter in addition to informal writing assignments.

☛Honors English I

1 credit

Grade 9

Honors Grading Scale

Prerequisites: "A" or "B" in previous English class; teacher recommendation, placement exam, and acceptable stanine/percentile on a nationally recognized achievement test

Students will study the same content areas as CP English I with additional requirements in literature and composition.

☛College Prep English II

1 credit

Grade 10

Regular Grading Scale

Prerequisites: English I

Students will study the following content areas: grammar, composition, literature, research, study skills,

then practice them. AP exam strategies will also be taught, and, near the completion of the course, students will take the AP exam to qualify for college credit. A testing fee is charged for this course.

↳ College Prep English IV

1 credit

Grade 12

Regular Grading Scale

Prerequisites: *English III*

Students will study the following content areas: grammar, composition, British literature, research, study skills and vocabulary. Students will keep organized notes, perform library research, and compose a literary analysis in addition to studying selected Shakespearean works.

↳ Honors English IV

1 credit

Grade 12

Honors Grading Scale

Prerequisites: “A” or “B” in previous *English III* class; teacher recommendation, placement exam, and acceptable stanine/percentile on nationally recognized achievement test

Students will study the same areas of content as CP English IV with an accelerated approach and greater depth and intensity. Students will read one work of literature outside of class each quarter.

↳ AP English Literature and Composition

1 credit

Grade 12

AP Grading Scale

Prerequisites: Teacher recommendation, placement exam, acceptable PSAT and national test scores

Students will study selections from both British and world literature in a concentrated manner with additional emphasis on literary analysis. AP exam strategies will also be taught. Near the completion of this course, students will take the AP exam to qualify for college credit. A testing fee is charged for this course.

↳+Creative Writing

1 credit

Grades 10, 11, 12

Regular Grading Scale

Prerequisites: A/B average in English, teacher approval

This course is designed for 12th grade students who have a solid foundation in grammar and wish to improve their writing skills. Students will be challenged with sharpening their skills through a variety of writing experiences—studies in character,

mood, plot, dialogue, theme and audience. Writers may participate in several writing contests and will develop their own portfolio. This course does NOT take the place of the required English course.

+Mass Media

1 credit

Grades 9, 10, 11, 12

Regular Grading Scale

Prerequisites: None

Students who enroll in this elective class will study the various mediums of communication: print journalism, with an emphasis on news reporting and article and editorial column writing; broadcast journalism (radio and television), with an emphasis on the oral presentation of news stories and a study of biased versus objective journalism; speech, with an emphasis on the Toastmaster techniques of effective public speaking and the opportunity to participate in oral contests; and advertising, with an emphasis on creating effective print and visual advertisements and a study of the persuasive techniques used by ad agencies to entice consumers to buy products. This does NOT take the place of the required English class.

↳+Mythology

1 credit

Grades 9, 10, 11, 12

Regular grading scale

Prerequisites: None

The content of this academic elective course will introduce students to mythologies around the world, particularly Greek, Roman, Norse, Egyptian, Native American, and Chinese mythologies. Students will have opportunities to demonstrate their learning through writing assignments, presentations, and a number of creative projects. This is a course for those students who have a serious interest in learning about other cultures and their influence on our art and literature. Please note: This course is an elective and does NOT replace a student's required English class.

+Yearbook

1 credit

Grades 10, 11, 12

Regular Grading Scale

Prerequisites: Approval of advisor based on application, English/Art teacher recommendation, and current Yearbook Staff input

Content includes writing, editing, and proofreading. The course affords the students the opportunity to incorporate journalistic elements into the planning and production of the school's yearbook. Students will become involved in all aspects of yearbook production: writing, editing, photography, layout and design, computer, and sales.

FINE ARTS DEPARTMENT



+Fundamentals of Art

1 credit

Regular Grading Scale

Fundamentals of Art explores the basics of drawing, painting, ceramics, and print making while satisfying the state required art credit. Projects will focus on these mediums while incorporating art history and practical hands-on application of art theories and procedures. A fee is charged for this course.

+Visual Arts Foundations

(Visual Arts Track)

1 credit

Regular Grading Scale

Prerequisite: Portfolio and teacher recommendation required

Visual Arts Foundations is structured like the Fundamentals of Art, but is developed for those students pursuing the Visual Arts Diploma and/or desire a more advanced pace. 8th graders pursuing the Visual Arts Track for high school will work with the middle school art teacher prior to scheduling. Current high school freshman can submit a portfolio to the High School Department Chair for approval. A fee is charged for this course.

+Advanced Drawing & Painting

1 credit

Honors Grading Scale

Prerequisite: Visual Arts Foundations, or portfolio submission and teacher

recommendation from Fundamentals of Art

Advanced Drawing and Painting is an in depth investigation of advanced drawing and painting techniques and mediums. Various artists and historical movements will be incorporated. Students will explore new mediums while learning to incorporate concept, developing work that is self-expressive. In depth multi-process work will be a focus as students begin to build their portfolios. The course is taught in a studio type setting. A fee is charged for this course.

+Ceramics & Sculpture

1 credit

Regular Grading Scale

Prerequisite: *Fundamentals of Art*

This class is taught in a studio setting and designed for students interested in 3D exploration. Students will build upon skills learned in Fundamentals or Visual Art Foundations to increase their level of mastery in additive and subtractive sculptural techniques. Ceramics work will include handbuilding and wheel-throwing. Other materials used may include, but are not limited to: wire, plaster, wood, and found objects/recycled materials. Students will create a variety of functional and conceptual pieces that will develop a strong 3D portfolio for use in competitions, AP, and/or college portfolios. A fee is charged for this course.

+Mixed Media Studio

1 credit

Regular Grading Scale

Prerequisite: *Fundamentals of Art or Visual Arts Foundations*

This class is taught in a studio setting and is designed for students who want to explore a variety of materials and experience a wide range of art-making processes. Students will follow multi-step processes and learn to unify various materials for purposeful concept and design. Experiences may include, but are not limited to: fabric dyeing, printmaking, embroidery, drawing, painting, and assemblage. The work students produce will serve to increase variety in portfolios submitted to competitions, the AP exam, and/or colleges. A fee is charged for this course.

+AP Studio Drawing

1 credit

AP Grading Scale

Prerequisites: *Fundamentals of Art or Visual Arts Foundations, AND Advanced Drawing and Painting*

**Completion of Summer Homework is required for admission*

AP Studio Drawing is taught in a studio setting at the college level. Students will work toward mastery of skills while exploring advanced media and mark-making techniques. Students will apply concept, meaning, and intent as they build their portfolios. Students will submit a portfolio to the College Board to qualify for college credit in the spring. A supply and testing fee is charged for this course.

+AP 3D Design

1 credit

AP Grading Scale

Prerequisites: *Fundamentals of Art or Visual Arts Foundations AND Ceramics & Sculpture* **Recommended:** *Mixed Media Studio* * *Completion of Summer Homework is required for admission*

This class is taught at the college level in a studio setting. AP 3D explores the elements and principles of design as they pertain to building form and shaping space. Students will master previous building techniques and explore advanced processes including, but not limited to: casting, glass fusing, and installation, while applying concept, meaning, and intent in Portfolio development. Students will submit a portfolio to the College Board to qualify for college credit in the spring. A supply and testing fee will be charged for this course.

+AP 2D Design:

Drawing/Painting-based

1 credit

AP Grading Scale

Prerequisites: *Fundamentals of Art or Visual Arts Foundations AND Advanced Drawing & Painting.*

Recommended: *AP Studio Drawing*

**Completion of Summer Homework is required for Admission*

AP 2-D Design is taught in a studio setting at the college level. AP 2-D Design explores the use of the elements and principles of art as they define composition. Drawing, painting and other mark-making medium skills are expected to combine with concept to create higher level process art. Students will submit a portfolio to the College Board to qualify for college credit in the spring. A supply and testing fee will be charged for this course.

+AP 2D Design: Digital

1 credit

AP Grading Scale

Prerequisites: *Fundamentals of Art or Visual Arts Foundations AND Digital Photography* **Recommended:** *Graphic*

**Completion of Summer Homework is required for Admission*

AP 2-D Design is taught in a studio setting at the college level. AP 2-D Design Digital explores the use of the elements and principles of art as they define composition. Digital art, photography, mixed media, and other design media will combine with concept to create higher level process art. Students will submit a portfolio to the College Board to qualify for college credit in the spring. A supply and testing fee will be charged for this course.

+Digital Photography

1 credit

Regular Grading Scale

Prerequisite: *Fundamentals of Art or Visual Arts Foundations*

This course provides a thorough investigation of photography as an art form. Students will learn about the history of photography, DSLR camera functions and fundamentals, various photographic techniques and composition skills, and post-production editing using Photoshop CC. Students will have several opportunities to practice camera skills and techniques during class, but will work independently outside of class time on shoot assignments. Time management and development of good work ethics is crucial to using lab time effectively to meet project deadlines. **Equipment required:** Students are responsible for providing their own DSLR camera, and SD card. A fee is charged for this course.

+Graphic Design

1 credit

Regular Grading Scale

Prerequisite: *Fundamentals of Art or Visual Arts Foundations*

This course provides a comprehensive overview of visual design using digital media. Students will use the Adobe Creative Cloud to create graphics suitable for print and web applications. Students will learn how graphics in advertising are used to promote ideas through project-based assignments, as well as the tools and techniques needed to build a fully functioning website. Time management and development of good work ethics is crucial to using lab time effectively to meet project deadlines. A fee is charged for this course.

+Film

1 credit

Grades 10, 11, 12

Regular Grading Scale

Prerequisite: *Fundamentals of Art or Visual Arts Foundations*

The Film curriculum is under revision. It will be available for the 2024-2025 school year.

+Portfolio Studio

1 Credit

Regular Grading Scale

Prerequisite: CONCURRENTLY taken with an AP Art Class or, for a Senior Visual Art student who has completed 2 AP Art Classes

Portfolio Studio is offered only to students who are currently taking an AP Art Class or to a Senior who has already taken 2 AP classes and wishes to develop their portfolio for college admission and/or scholarship opportunities such as Scholastic Arts. A fee is charged for this course.

+Honors Chorale

1 credit

Grades 9, 10, 11, 12

Honors Grading Scale

Prerequisite: audition required and Director Approval

Chorale is an auditioned, elite group specializing in small-ensemble and a cappella works, including madrigals and contemporary/pop literature. This ensemble will perform regularly in the school and community setting as the flagship choral ensemble of Christian Academy. Grades consist of regular participation, written and group assignments, sight singing exams, and performances. Participation outside of the regular school day is required and will be graded. A music fee of \$50 will be assessed during the 1st semester. Auditions for Chorale will be held after registration for the current school year has closed.

+Men's Choir

1 credit

Grades 9, 10, 11, 12

Regular Grading Scale

Men's Choir is a non-prerequisite class for young men, of all singing experience levels. This ensemble emphasizes the basic fundamental choral skills, which include music literacy, sight reading, vocal technique, and introductory music theory. They perform a variety of accompanied and a cappella standard choral literature for the male voice, and will also combine with the Women's choir during concerts. Grades consist of daily participation, individual sight singing and rhythm quizzes, performances, and written assignments. Participation outside of the regular school day is required and will be graded. A music fee of \$50 will be assessed during the 1st semester.

+Women's Choir

1 credit

Grades 9, 10, 11, 12

Regular Grading Scale

Women's Choir is a non-prerequisite class for young women, of all singing experience levels. It is an introductory to intermediate level group, building on the basic fundamental choral skills which include music literacy, sight reading, vocal technique, and introductory music theory. This group performs a variety of accompanied and a cappella standard choral literature for the female voice at varying levels of difficulty, and will also combine with the Men's Choir during concerts. Students will perform regularly throughout the semester in the school and community setting. Grades consist of daily participation, sight singing and rhythm quizzes, performances and written assignments. Participation outside of the regular school day is required and will be graded. A music fee of \$50 will be assessed during the 1st semester.

+Show Choir

1 credit

Grades 10, 11, 12

Regular Grading Scale

Prerequisite: High School Women's Choir or Chorale, audition and Director Approval required, maximum 30 students

Show Choir is an auditioned, performance-based group specializing in Broadway, pop, musical theater repertoire. Students will have the opportunity to perform and compete in local and regional festivals and contests throughout the school year. Grades consist of daily participation, sight singing, choreography exams, rhythm quizzes, and performances. Participation outside of the regular school day is required and will be graded. A uniform rental fee will be collected at the beginning of the year for ladies dresses. Uniform dance shoes are required. Participation in this ensemble requires students to purchase dance shoes and ladies uniform dance tights. All uniforms and accessories will be rented and purchased through the choral department. A music fee of \$50 will be assessed during the 1st semester. Auditions for Show Choir will be held after registration for the current school year has closed.

+Percussion Ensemble

1 credit

Grades 9,10,11,12

Regular grading scale

Prerequisite: Must be enrolled in a primary music ensemble, Director approval

Percussion Ensemble is an instrumental music-performing group that is meant to further the development of playing techniques for marching, percussion, mallet, and auxiliary instruments. Participation by playing either a prepared solo or ensemble is a requirement for this course as well as performing at a concert at the end of the each semester..

+Concert Band

1 credit

Grades 9

Regular Grading Scale

Prerequisite: Director Approval

The Concert Band is an instrumental music-performing group that will participate in concerts, chapel programs, music festivals, contests, and other school or community events. Participation outside of the regular school day is required and will be part of the grade. Pep band is required by selected members of the Concert Band and they will be expected to perform at selected home football and basketball events. A music fee of \$50 will be assessed during the 1st semester.

+Symphonic Band

1 credit

Grades 10, 11, 12

Regular Grading Scale

Prerequisite: Director Approval

This is a focused music-performing ensemble developing excellence through performance. They will participate in concerts, chapel programs, music festivals, contests, and other school or community events. Participation outside of the regular school day is required and will be part of the grade. Incoming 9th graders who were in Concert Band as an 8th grader have the opportunity to audition into this ensemble. A music fee of \$50 will be assessed during the 1st semester.

+Honors Wind Ensemble

1 credit

Grades 9, 10, 11, 12

Honors Grading Scale

Prerequisites: Audition only

This is a focused and intense music-performing ensemble developing excellence in performance. They will participate in concerts, chapel programs, music festivals, contests, and other school or community events. Participation outside of the regular school day is required and will be part of the grade. A music fee of \$50 will be assessed during the 1st semester.

+Concert Orchestra**1 credit****Grades 9 (includes MS 8th grade)****Regular Grading Scale**

Concert orchestra is an intermediate string ensemble for eighth and ninth grade students. As part of this class students will continue to develop intonation skills while learning more complex rhythmic patterns, time signatures, and multiple new key signatures. Students will also be introduced to higher positions (III position, IV position for cello), shifting, harmonics, and beginning vibrato. Concert orchestra performs at the KMEA large ensemble festival at the grade 3 level. A music fee of \$50 will be assessed during the 1st semester.

+Serenade Orchestra**1 credit****Grades 10, 11, 12****Regular Grading Scale**

Serenade orchestra is an advancing string ensemble for tenth through twelfth grade students. Ninth grade students who study privately may audition for placement in this group. As part of this class students will begin to refine intonation in various keys. Students at this level are comfortable playing in and shifting to III position (IV position and extensions for cello) and are beginning to apply that knowledge in more advanced concert literature. Serenade orchestra performs at the KMEA large ensemble festival at the grade 4 level. A music fee of \$50 will be assessed during the 1st semester.

+Honors Chamber Orchestra**1 credit****Grades 10, 11, 12****Honors Grading Scale**

Prerequisite: Audition only and Director Approval

Honors Chamber orchestra is an advanced string ensemble for tenth through twelfth grades. Students are admitted into Chamber Orchestra through audition and director approval. Students at this level are comfortable with III and V position (III IV cello) and basses play across strings in addition to higher shifting. These students have developed a polished vibrato and display flexibility in right wrist and fingers allowing for more advanced bow techniques such as spiccato and legato. Honors Chamber orchestra performs at the KMEA large ensemble festival at the grade 5-6 level. A music fee of \$50 will be assessed during the 1st semester.

+Conducting**1 credit****Grades 11, 12****Regular Grading Scale**

Prerequisites: Band, Choir or Orchestra

The course is designed to expand and define the mechanical skills developed, particularly baton technique, usage of the left hand in conducting, and a deeper understanding of the musical score. In addition, attention is given to score preparation, to the understanding of transposition, rehearsal techniques, interpretation, and to the entire process of non-verbal communication necessary for successful communication as a conductor.

+Group Piano**1 credit****Grades 9,10,11,12****Regular Grading Scale**

Prerequisite: Must be enrolled in the School of the Arts and in a primary music ensemble, Director Approval

Group Piano is an opportunity for students within the School of the Arts to learn basic piano, music theory and performance skills. This course is meant to allow students the opportunity to prepare for group piano requirements as a college music major.

+Jazz Band**1/2 credit****Grades 9, 10, 11, 12****Regular Grading Scale**

Prerequisites: Director Approval

The Jazz Band is an instrumental music group that meets before school on Tuesday and Thursday. The group will be expected to play in concerts, chapel programs, music festivals, contests, and other school or community events. Participation outside of regular school day will be required and graded.

This course does not meet during the regular school day, but before school two mornings a week and cannot be selected during online registration. Students will be scheduled manually after auditions.

+Honors Jazz Band**1/2 credit****Grades 11, 12****Honors Grading Scale**

Prerequisites: Audition and Director Approval

The Honors Jazz Band will be the elite instrumental music group that meets before school on Monday, Wednesday and Friday. The group will be expected to play in concerts, chapel programs, music festivals, contests, and other school or community events. Participation outside of regular school

day will be required and graded. A paper covering course topics such as jazz theory, improvisation, history and transformation of jazz will be required.

This course does not meet during the regular school day, but before school to three mornings a week and cannot be selected during online registration. Students will be scheduled manually after auditions.

+Music History**1 credit****Grades 9, 10, 11, 12****Regular Grading Scale**

Students will be engaged in a walk through musical history. Starting with early music B.C. all the way to today's most popular hits. The course aims to widen the musical horizons and receptiveness of the standard listener, making him/her a more understanding listener to radio, television, and professional concerts. Dual Credit Opportunity.

+AP Music Theory**1 credit****Grades 11, 12****AP Grading Scale**

Prerequisites: A or B in Music Theory and History or teacher approval

AP Music Theory is an in-depth look into ways of understanding and making music on a collegiate level. In this class we will review the basics of reading music and take an integrated approach to harmony, ear training, and compositional techniques which will better prepare students for not only the AP college exam but also the entrance exam for any college music department. A testing fee is charged for this course.

+Intro to Theatre Arts**1 credit****Grades 9, 10, 11, 12****Regular Grading Scale**

This course offers a study of the foundations of theatre performance and production. Topics include an introduction to classic and contemporary theatre as well as acting, staging, costuming, etc. Participation outside of class time is required and is part of the grade.

+Advanced Theatre Arts**1 credit****Grades 10, 11, 12****Regular Grading Scale**

Prerequisites: 1 of the following: 100 hours in theatre experience, International Thespian Society membership or Intro to Theatre Arts

This course offers intermediate to advanced drama students an

opportunity to grow in skill and production within performance. Topics include a study in monologues, character analysis, audition skills, and career reparation. Participation outside of class time is required and is part of the grade.

HEALTH, PHYSICAL EDUCATION & HOME ECONOMICS DEPARTMENT

Health

1/2 credit

Grade 9

Regular Grading Scale

The purpose of this class is to present the Bible as the foundation for a healthy lifestyle. This class will deal with the integration of the physical, emotional, mental, social, and spiritual dimensions.

Physical Education

1/2 credit

Grade 9

Regular Grading Scale

Ninth grade physical education deals with the development of team sports skills such as basketball, soccer, softball, volleyball, floor hockey, as well as some of the individual activities such as weight training and aerobics. Calisthenics and physical fitness exercises are a part of each day's activities. A CAL physical education uniform is required.

+Advanced Physical Education (Boys)

1 credit

Grades 10, 11, 12

Regular Grading Scale

Prerequisites: *Physical Education, Health, teacher recommendation.*

Students will engage in and explore a variety of advanced fitness activities. This course is designed to help students build and apply their own personal exercise programs by incorporating fitness with other activities not done on a normal basis. Fitness tests and activity logs are all part of this program. A fee is charged for this course.

+Advanced Wellness (Girls)

1 credit

Grades 10, 11, 12

Regular Grading Scale

Prerequisites: *Physical Education, Health, Teacher recommendation. Priority will be given to 12th graders, followed by 11th graders and 10th graders until the class is full.*

Students will engage in and explore a variety of advanced fitness (strength, cardiovascular, aerobic) activities and indoor and outdoor adventure activities, sports and games. This course is designed to help students build and apply their own personal exercise/activity program by incorporating fitness with other activities not done on a normal basis. Fitness tests and activity logs are a part of this program. A fee is charged for this class.

+Home Economics

1 credit

Grades 9, 10, 11, 12

Regular Grading Scale

This course is designed to teach basic knowledge in each of the five major subject matters in Home Economics: Foods and Nutrition, Human Growth and Development, Housing and Home Furnishings, Clothing and Textiles, and Financial Management and Consumerism. Students will experience hands-on learning through the use of labs. This course may be taken only once. A fee will be charged for consumables.

+Clothing & Textiles

1 credit

Grades 10, 11, 12

Regular Grading Scale

Prerequisites: *Home Economics*

This course will emphasize the elements and principles of design and application in clothing construction. Students will be taught to construct garments. A fee will be charged and students will be responsible for providing fabric for garments.

+Culinary Arts

1 credit

Grade 12

Regular Grading Scale

Prerequisites: *Home Economics and teacher approval*

This course is designed to continue with the cooking skills introduced in Home Economics. Students will learn more advanced skills necessary for planning and preparing nutritious meals and catering. Students will experience hands-on learning through the use of labs. Participation outside class time is required and will be part of the grade. A fee will be charged for consumables.

MATHEMATICS DEPARTMENT

Note: Students may only move from non-honors courses to honors courses with departmental permission and an acceptable score on a placement test. Students who wish to take Geometry and Algebra II in the same year must take both courses at the honors level if they wish to take Honors Precalculus and must obtain departmental approval before registering.

College Prep Algebra I

1 credit

Grades 9, 10

Regular Grading Scale

This is the first course of higher-level math and is the basis for all math courses taught at the high school level. Topics of study include solving equations, graphing equations, solving systems of equations, solving and graphing inequalities, properties of exponents, introduction to polynomial equations and factoring, rational equations, and properties of radicals.

Honors Algebra I

1 credit

Grades 9, 10

Honors Grading Scale

Prerequisite: *Teacher recommendation and test scores*
The content is the same as that of Algebra I, but is covered in greater depth. There is also an emphasis on problem solving and higher-level thinking.

College Prep Geometry

1 credit

Grades 9, 10, 11

Regular Grading Scale

Prerequisites: *Algebra I*

Geometry introduces the students to proofs and deductive reasoning. Topics of study include proofs, congruence of triangles, parallel lines, properties of various quadrilaterals, properties of right triangles, special right triangles, circles, areas, volumes, coordinate geometry, transformations, and preparation for college entrance examinations.

Honors Geometry

1 credit

Grades 9, 10, 11

Honors Grading Scale

Prerequisites: *An average of B or higher in Honors Algebra I or 8th grade Algebra and teacher recommendation*

The student is introduced to proofs, inductive and deductive reasoning, and

indirect proofs with analytical thinking processes and challenging problem solving. Topics of study include proofs, congruence of triangles, parallel lines, properties of various quadrilaterals, properties of right triangles, special right triangles, circles, areas, volumes, coordinate geometry, transformations, and preparation for college entrance examinations.

College Prep Algebra II

1 credit

Grades 10, 11, 12

Regular Grading Scale

Prerequisites: *Algebra I and Geometry* Algebra II is the second year of Algebra taught at the secondary level. This course extends the students' knowledge of concepts learned in the first Algebra course and covers solving systems of equations, matrices, quadratic equations, functions, exponents, and sequences and series.

Honors Algebra II

1 credit

Grades 10, 11, 12

Honors Grading Scale

Prerequisites: *Honors Algebra I, an average of B or higher in Honors Geometry and teacher recommendation*

This course stresses the methods of mathematical problem-solving with emphasis on patterns, relationships, and problem-solving strategies. Higher order equations and transcendental functions are covered. The graphing calculator is used as a tool of discovery and for checking work. It is the goal of this course to strengthen the students' critical thinking skills and to show how mathematical thinking can be applied in all disciplines.

College Prep Precalculus

1 credit

Grades 11, 12

Regular Grading Scale

Prerequisites: *Algebra I, Geometry and Algebra II and teacher recommendation*

Precalculus includes the study of polynomials and their zeros, rational functions, functions that involve radicals, the trigonometric functions, including analytic trigonometry and applications of trigonometric functions, logarithmic and exponential functions, including the applications and graphs of each. Solving systems of linear equations, sequences, series, and applications of probability are also covered.

Honors Precalculus

1 credit

Grades 11, 12

Honors Grading Scale

Prerequisites: *Honors Algebra I, Honors Geometry, an average of B or higher in Honors Algebra II and teacher recommendation*

Honors Precalculus includes the topics covered in Precalculus, but they are covered in greater detail. Also, higher-level reasoning is stressed. Dual Credit Opportunity, see page 15.

College Prep Statistics/Survey of Modern Mathematics

1 credit

Grade 12

Regular Grading Scale

Prerequisite: *Precalculus and teacher recommendation, only seniors may take this course*

Statistics includes the study of frequency distributions, the normal distribution, collecting and interpreting data, and communicating information. Survey is an overview of the application of mathematics in the areas of social choice, management science, and technology. Topics include voting methods, fair division, compound interest, and investing.

College Prep Consumer Math

1 credit

Grade 12

Regular Grading Scale

Prerequisites: *Algebra II and teacher recommendation. Students who have completed Precalculus are not eligible for this class.*

This course covers the practical applications of mathematics in business including taxes, inflation, compound interest and depreciation.

Honors Calculus

1 credit

Grade 12

Honors Grading Scale

Prerequisites: *A or B in Precalculus and teacher recommendation*

Calculus is the branch of mathematics that deals with change. It includes the study of limits, maximum and minimum values, functions and their graphs, the area under a curve, velocity, speed, and other rates of change. Students who choose the Dual Credit option will receive credit for Elementary Calculus (Business Calculus) not Calculus 1. Dual Credit Opportunity, see page 15.

AP Calculus

1 credit

Grade 12

AP Grading Scale

Prerequisites: *An average of B+ or higher in Honors Precalculus and teacher recommendation*

Calculus is the branch of mathematics that deals with change. It includes the study of limits, maximum and minimum values, functions and their graphs, the area under a curve, velocity, speed, and other rates of change. Near the completion of this course, students will take the AP exam to qualify for college credit. A testing fee is charged for this course.

AP Statistics

1 credit

Grade 11, 12

AP Grading Scale

Prerequisites: *A or B in Honors Algebra II and teacher recommendation*

AP Statistics is equivalent to an introductory, non-calculus-based college course in statistics. The course introduces students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Near the completion of this course, students will take the AP exam to qualify for college credit. A testing fee is charged for this course.

SCIENCE DEPARTMENT

College Prep Anatomy & Physiology

1 credit

Grades 11, 12

Regular Grading Scale

Prerequisites: *Biology and Chemistry* Anatomy students will focus on the anatomical systems of the human body with an introduction to the physiological processes seen in humans. Dissections will be utilized throughout the year to stress each system being studied. Students who register for the class MUST participate in the dissection process.

Honors Anatomy and Physiology

1 credit

Grades 11, 12

Honors Grading Scale

Prerequisites: *"A" or "B" in Honors Chemistry and teacher recommendation*

Students will focus on the systems of Anatomy and Physiology and investigate, through dissection, an in-

depth examination of each system. An emphasis is also made on the application of acquired knowledge to case studies of real-life situations. Critical-thinking skills will be utilized throughout the year for a deeper study of the human body. Students who register for this class MUST participate in the dissection process.

College Prep Biology

1 credit

Grades 9, 10

Regular Grading Scale

Biology students will focus on basic cell structure, cell function, genetics, photosynthesis, ecology, classification, and evolution/creation. Students will have an overview of some of the body systems. Application of scientific method and problem-solving techniques will be taught along with proper laboratory techniques.

Honors Biology

1 credit

Grades 9, 10

Honors Grading Scale

Prerequisites: Teacher recommendation and acceptable standardized test scores

Honors Biology students will focus on basic cell structure, cell function, genetics, photosynthesis, ecology, classification and evolution/creation. Students will learn an overview of some of the basic body systems. Application of scientific method and problem-solving techniques will be taught along with proper laboratory method. Students in this fast-paced course are encouraged to focus on higher learning skills through the integration and application of concepts and will be encouraged to strengthen their investigative and critical thinking skills.

Principles of Biomedical Science with Biology

1 credit

Grades 9, 10

Honors Grading Scale

Prerequisites: Teacher recommendation and acceptable standardized test scores

This course is for students who are interested in taking Principles of Biomedical Science as their Honors Biology credit. Additional Biology topics will be covered in addition to the Principles of Biomedical Science curriculum. In this introductory course of the Biomedical Science program, students explore concepts of biology and medicine to determine factors that led to the death of a fictitious person. While investigating the case, students examine autopsy reports, investigate

medical history, examine ecological impacts, and explore medical treatments that might have prolonged the person's life. In this course, students will also propose treatment for patients in a family medical clinic, stabilize a patient during an emergency, and collaborate with others to design solutions to local and global medical problems. These activities and projects introduce students to human physiology, biology, medicine and research processes and allow students to design experiments to solve problems. A fee will be charged for this course. Dual Credit Opportunity, see page 15

AP Biology

1 credit

Grades 11, 12

AP Grading Scale

Prerequisites: Honors Chemistry, Honors Biology, and teacher recommendation

Students will expand on concepts learned in Honors Biology. Special focus will be given to the relationship between these concepts and their application through problem solving. Topics include: cell biology, genetics, DNA biology, biotechnology and ecology. AP exam strategies will also be taught. This is a rigorous course designed to prepare students for success on the Advanced Placement College Board exam. A testing fee is charged for this course.

College Prep Chemistry

1 credit

Grades 10, 11

Regular Grading Scale

Prerequisites: Biology, Algebra I

Chemistry students will be taught proper laboratory techniques and continue to develop problem-solving skills. The student will apply information both quantitatively and qualitatively and incorporate accumulated knowledge with new information. Specific topics studied will be matter and energy, chemical formulas and equations and their mathematical application, gas laws, chemical bonding, the periodic table, atomic structure and space science.

Honors Chemistry

1 credit

Grades 10, 11

Honors Grading Scale

Prerequisites: "A" or "B" in Honors Biology and Honors Math and Honors math/science teacher recommendation

This is a physical science course designed to introduce students to laboratory equipment and proper

laboratory technique. Students will develop problem solving skills through class work and laboratory activities. Topics studied include matter and energy, chemical formulas and equations, the mathematical application of these equations, gas laws, chemical bonding, solutions, space science and the periodic table.

AP Chemistry

1 credit

Grades 11, 12

AP Grading Scale

Prerequisites: "A" or "B+" average in Honors Chemistry, Honors Biology, Honors Algebra II and Honors math/science teacher recommendation

Students will expand on the important chemical concepts covered in Honors Chemistry. These concepts include stoichiometry, states of matter, the structure of matter, and descriptive chemistry. Through problem solving, special focus will be given to the relationships between concepts and their applications. The topics of chemical equilibria, acid base chemistry, kinetics, thermodynamics, and electrochemistry will be introduced. Laboratory experiments will be conducted to reinforce the material studies. Students will develop the skills of data interpretation and error analysis through laboratory work. AP exam strategies will also be taught. This is a rigorous course designed to prepare students for success on the required Advanced Placement College Board exam. A testing fee is charged for this course.

Conceptual Physics

1 credit

Grades 11, 12

Regular Grading Scale

Prerequisites: Algebra II must be taken prior to or concurrently with Conceptual Physics

The student's study of science will enable him/her to better appreciate nature by learning nature's basic rules of physics. Concepts from six branches of physics will be addressed: mechanics, thermodynamics, wave phenomena, light/optics, electromagnetism and relativity. Students will study energy, the forces that move matter, and connections will be made with earth and space science. Students will perform experiments, solve problems, participate in hands-on activities, analyze and interpret data, and use technology. Proper lab techniques will also be practiced.

+Honors Physics

1 credit

Grades 11, 12

Honors Grading Scale

Prerequisites: Algebra II must have already been taken or must be taken concurrently with Honors Physics, math admissions test and teacher recommendation.

Students will study the areas of mechanics, waves, and thermal physics. These topics will be covered in depth and do require higher-learning skills. Students will also use their algebra and geometry backgrounds to solve expressions dealing with the laws of physics. A strong understanding of these math skills is critical for success in this course. Honors Physics will cover more topics and will therefore move at a faster pace than the regular physics course. Proper lab techniques and problem-solving will be practiced. This course may be offered on-line, during school hours.



+Engineering Essentials

Project Lead the Way (PLTW)

1 credit

Grades 9, 10, 11, 12

Regular Grading Scale

Engineering Essentials (EE) is a foundation course in the PLTW Engineering Pathway. Students explore how engineers make a difference and improve lives, while using modern engineering tools, such as geographic information systems with ArcGIS, 3-D solid modeling software, and prototyping equipment. Students solve rigorous and relevant design problems using engineering design concepts in independent projects and also part as a collaborative team to develop solutions to community and global challenges that the next generation of engineers will face. Students discover how they fulfill a special place within God's Creation Mandate; to subdue the earth while extracting and making use of its resources to benefit people everywhere. Dual Credit Opportunity. A fee will be charged for this course.

+Introduction to Engineering Design

Project Lead the Way (PLTW)

1 credit

Grades 10,11,12

Regular Grading Scale

Prerequisites: Algebra I and Engineering Essentials

Introduction to Engineering Design (IED) is a foundation course in the PLTW Engineering Pathway that

introduces students to the role, impact, and practice of engineering and how they fulfill a special place within God's Creation Mandate; to subdue the earth while extracting and making use of its resources to benefit people everywhere. In this activity-project-problem-based classroom students will explore ways to love their neighbor and make the world a better place, implementing the four fundamental disciplines of the engineering profession. Students will be introduced to the design process, will improve product design, assess design solutions, and justify design decisions. This course implements sketching, computer modeling software used to create CAD models to represent simple objects in a virtual 3D environment including printing, measurement and statistics, visual design elements, and functional analysis as students assemble, disassemble, and test manufacturing of various products. Hands-on, structured activities are implemented to solve open-ended projects and problems for students to learn proper planning, effective documentation, communication, and other professional skills required in the field of engineering. This course will be offered according to student interest and staff availability. Dual Credit Opportunity. A fee will be charged for this course.

+Principles of Engineering

Project Lead the Way (PLTW)

1 credit

Grades 11, 12

Regular Grading Scale

Prerequisites: Engineering Essentials and Introduction to Engineering Design Principles of Engineering (POE) is the third foundation course in the PLTW Engineering Pathway where students will develop in the practice of engineering and fulfill a special place within God's Creation Mandate; to subdue the earth while extracting and making use of its resources to benefit people everywhere. The course exposes students to some of the major concepts that they will encounter in the post-secondary engineering course of study: design mechanisms, the strength of materials and structures, automation, and motion. Students have an opportunity to investigate engineering and high tech careers. POE gives students the opportunity to develop skills and understanding of course concepts through activity-, project-, and problem-based (APB)

learning. Through problems that engage and challenge, students 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.

+Principles of Biomedical Science

Project Lead the Way (PLTW)

1 credit

Grades 9, 10, 11, 12

Honors Grading Scale

Prerequisites: none

In this introductory course of the Biomedical Science program, students explore concepts of biology and medicine to determine factors that led to the death of a fictitious person. While investigating the case, students examine autopsy reports, investigate medical history, examine ecological impacts, and explore medical treatments that might have prolonged the person's life. In this course, students will also propose treatment for patients in a family medical clinic, stabilize a patient during an emergency, and collaborate with others to design solutions to local and global medical problems. These activities and projects introduce students to human physiology, biology, medicine and research processes and allow students to design experiments to solve problems. Dual Credit Opportunity. A fee will be charged for this course.

+Human Body Systems

Project Lead the Way (PLTW)

1 credit

Grades 10, 11, 12

Honors Grading Scale

Prerequisite: Principles of Biomedical Science or Teacher Approval

Students examine the interactions of human body systems as they explore identity, power, movement, protection, and homeostasis. Exploring science in action, students build organs and tissues on a skeletal Manikin®; use data acquisition software to monitor body functions such as muscle movement, reflex and voluntary action, and respiration; and take on the roles of biomedical professionals to solve real-world medical cases. A fee will be charged for this course. Dual Credit Opportunity, see page 15.

+Medical Interventions

Project Lead the Way (PLTW)

1 credit

Grades 10, 11, 12

Honors Grading Scale

Prerequisites: *Principles of Biomedical Science, Human Body Systems or teacher approval*

Students follow the life of a fictitious family as they investigate how to prevent, diagnose, and treat disease. Students explore how to detect and fight infection; screen and evaluate the code in human DNA; evaluate cancer treatment options; and prevail when the organs of the body begin to fail. Through real-world cases, students are exposed to a range of interventions related to immunology, surgery, genetics, pharmacology, medical devices, and diagnostics. A fee will be charged for this course. Dual Credit Opportunity, see page 15.

#Biomedical Innovation Project Lead the Way (PLTW)

**1 credit
Grade 12**

Honors Grading Scale

Prerequisites: *"B" or better in at least two of the following PLTW courses: Principles of Biomedical Science, or Human Body Systems and Medical Interventions and teacher recommendation*

In the final course of the PLTW Biomedical Science sequence, students build on the knowledge and skills gained from previous courses to design innovative solutions for the most pressing health challenges of the 21st century. Students address topics ranging from public health and environmental health to emergency room design and physiology. Students will have the opportunity to participate in an internship in their field of interest. Medical Interventions and Biomedical Innovation may be taken concurrently with special permission. A fee will be charged for this course. Dual Credit Opportunity, see page 15.

SOCIAL STUDIES DEPARTMENT

College Prep World Civilization

**1 credit
Grade 10**

Regular Grading Scale

The World Civilizations student will study the history and culture of the modern world. The primary study will focus on the time period from the Renaissance through present world situations. Special emphasis will be given to viewing historical events through a biblical worldview.

Honors World Civilization

**1 credit
Grade 10**

Honors Grading Scale

Prerequisites: *"B+" or above in Honors English or "A-" or above in CP English, English teacher recommendation, and 85 stanine/percentile score on nationally recognized achievement test*

The Honors World Civilizations student will study the history and culture of the modern world. The primary study will focus on the time period from the Renaissance through present world situations. The student will be involved in critical reading of primary and secondary sources and in individual research. High levels of learning, critical thinking, and decision-making will be required of the successful honors student. Special emphasis will be given to viewing historical events through a biblical worldview.

AP World History

**1 credit
Grade 10**

AP Grading Scale

Prerequisites: *Recommend Honors English receiving B+ or higher or B or higher in AP Human Geography, teacher recommendation and/or 85 stanine/percentile score on reading comp achievement test*

The AP World History course content is structured around the investigation of six course themes and nineteen key concepts divided into chronological periods, from approximately 1200 to the present with emphasis placed on viewing historical events through a biblical worldview. The key concepts help teachers and their students understand, organize, and prioritize historical developments within each of the chronological periods. The course will require solid reading and writing skills, along with a willingness to devote considerable time to homework and study. Emphasis is placed on historical reasoning skills, essay writing, and interpretation of primary and secondary sources. Near the completion of this course, students will take the AP exam to qualify for college credit. A testing fee is charged for this course.

College Prep U.S. History

**1 credit
Grade 11**

Regular Grading Scale

Prerequisites: *World Civilization*

The U.S. History student will study the history and culture of the United States of America. The primary scope of the course will pick up during the Reconstruction period and conclude in

the Present-day. The successful student of this course will conduct critical research using primary and secondary sources; practice historical inquiry; complete challenging essays; and direct their own mastery. Special emphasis will be given to how Biblical themes illuminate historical events in the United States.

Honors U.S. History

**1 credit
Grade 11**

Honors Grading Scale

Prerequisites: *"B" or higher in Honors World Civilization or an "A-" or higher in CP World History, teacher recommendation and 85 stanine/percentile score on nationally recognized achievement test*

The Honors U.S. History student will study the history and culture of the United States of America. The primary scope of the course will begin in the Reconstruction period and conclude in the Present-day. The successful student of this course will conduct critical research using primary and secondary sources; practice historical inquiry; engage in academic essay writing; and accomplish high standards of self-directed learning and thinking. This course will proceed at an accelerated pace. Special emphasis will be given to viewing historical events through a biblical worldview.

AP U.S. History

**1 credit
Grade 11**

AP Grading Scale

Prerequisites: *Recommend Honors World Civilization receiving B+ or higher or B or higher in AP World History, teacher recommendation and/or 85 stanine/percentile score on reading comp achievement test*

AP U.S. History is a challenging course that is meant to be the equivalent of a college survey course. The course encompasses American history from the age of exploration to the present with emphasis placed on God's hand at work in the course of history. The course will require solid reading and writing skills, along with a willingness to devote considerable time to homework and study. Emphasis is placed on critical thinking skills, essay writing and interpretation of primary and secondary sources. Near the completion of this course, students will take the AP exam to qualify for college credit. A testing fee is charged for this course.

College Prep Economics

1/2 credit (offered 2nd semester only)

Grade 12

Regular Grading Scale

This course encompasses the major theories and the work of recognized experts in the field. The course also covers paycheck management, simple banking procedures, various aspects of the taxation process and consumerism using Dave Ramsey's Financial Peace curriculum.

Honors Economics

1/2 credit (offered 2nd semester only)

Grade 12

Honors Grading Scale

Prerequisites: "B+" or above in Honors or an "A-" or above AP U.S. History, teacher recommendation and 85 stanine/percentile score on nationally recognized achievement test
The Honors Economics student will be exposed to a course of study that encompasses major theories and the work of some recognized experts in the field. This course also covers paycheck management, simple banking procedures, various aspects of the taxation process, and consumerism using Dave Ramsey's Financial Peace curriculum. Both micro- and macroeconomics will be explored and special emphasis will be given to the Christian's view of stewardship.

AP Microeconomics

1/2 credit (offered 2nd semester only)

Grade 12

AP Grading Scale

Prerequisites: Recommend "B" or higher in AP US History or "B+" or higher in Honors US History, teacher recommendation and/or 85 stanine/percentile score on nationally recognized achievement test

The purpose of the AP course in microeconomics is to give students a thorough understanding of the principles of economics that apply to the functions of individual decision makers, both consumers and producers, within the economic system. It places primary emphasis on the nature and functions of product markets and includes the study of factor markets and of the role of government in promoting greater efficiency and equity in the economy. The course will require solid reading and writing skills, along with a willingness to devote considerable time to homework and study. This class will be taught as a second semester class. Students will take the AP exam towards the end of the semester to qualify for college credit. A testing fee is charged for this course.

College Prep U.S. Government

1/2 credit (offered 1st semester only)

Grade 12

Regular Grading Scale

This course introduces students to a study of the foundations of American government, encourages and equips them to take an active role in the governmental process.

Honors U.S. Government

1/2 credit (offered 1st semester only)

Grade 12

Honors Grading Scale

Prerequisites: "B" or higher in Honors or "B+" or higher in CP U.S. History and teacher recommendation and/or 85 stanine/percentile score on nationally recognized achievement test

The Honors U.S. Government student will be exposed to a detailed study of the foundations of American government. The composition and workings of the three branches of our government will be explored as well as several landmark Supreme Court cases. Honors students will be encouraged and equipped to take an active role in the governmental process. Special emphasis will be given to God's hand in the founding of our nation.

AP Government and Politics

1/2 credit (offered 1st semester only)

Grade 12

AP Grading Scale

Prerequisites: Recommend "B" or above in AP US History or B+ or higher in Honors US History, teacher recommendation and/or 85 stanine/percentile score on nationally recognized achievement test

An introductory college course in United States government and politics that will provide the students an analytical perspective on government and politics in the United States. This course includes both the study of general concepts used to interpret U.S. government and politics and the analysis of specific examples. It will also require familiarity with the various institutions, groups, beliefs, and ideas that constitute U.S. government and politics. Students will be expected to learn important patterns of political processes and behavior and their consequences including explaining and justifying various government structures and procedures and the political effects of these structures and procedures. The course will require solid reading and writing skills, along with a willingness to devote considerable time to homework and study. This class will be taught as a first semester class. Students will take the AP exam towards the end of second

semester to qualify for college credit. A testing fee is charged for this course.

+Introduction to Psychology

1 credit

Grades 11, 12

Regular Grading Scale

Students will study the science of the mind and human behavior. Topics will include the history of psychology, learning and memory, theories of human development, research methods, theories of personality, and social interaction. Special emphasis will be given to the biblical worldview of these topics.

AP Psychology

1 credit

Grade 12

AP Grading Scale

Prerequisites: Recommend "A" or "B" in AP US History or B+ or higher in Honors US History, teacher recommendation and/or 85 stanine/percentile score on nationally recognized achievement test

The AP Psychology course is designed to mirror an entry-level college course, requiring students to accept higher academic challenges, greater time commitment, and a larger number of reading selections. Students will cultivate their understanding of the systematic and scientific study of human behavior and mental processes through inquiry-based investigations as they explore concepts like the biological bases of behavior, sensation and perception, learning and cognition, motivation, developmental psychology, testing and individual differences, treatment of abnormal behavior, and social psychology. Students will examine how each of these topics are enhanced by a biblical worldview. AP Psychology students must take the AP Psychology exam near the end of the second semester. A testing fee is charged for this course.

+AP Human Geography

1 credit

Grade 9, 10, 11, 12

AP Grading Scale

Prerequisites: 85 stanine/percentile score on reading comp achievement test and/or teacher recommendation

The AP Human Geography course is designed to introduce students to the systematic study of patterns and processes that have shaped human understanding, use, and alteration of the Earth's surface. Students employ spatial concepts and landscape analysis to examine human social organization and its environmental consequences. They also learn about

the tools and methods geographers use in science and practice. Near the completion of this course, students will take the AP exam to qualify for college credit. A testing fee is charged for this course.

WORLD LANGUAGES DEPARTMENT

Latin I

1 credit

Grades 9, 10, 11, 12

Regular Grading Scale

This course is taught through the Memoria Press curriculum. This introductory course will guide the student through a formalized study of the Latin language with an emphasis in grammar and vocabulary. Students will learn to apply correct grammar to basic translation and memorize over 200 Latin words with derivatives. Students will study a wide range of topics such as Roman Mythology and ancient Roman culture as they prepare for the National Latin Exam which is offered in March. The student will be taught to compare, contrast and analyze what they are learning in the context of a Biblical world view.

Latin II

1 credit

Grades 9, 10, 11, 12

Regular Grading Scale

Prerequisites: Latin I

This course is taught through the Memoria Press curriculum. In this second year of in-depth, formal Latin study students will continue their mastery of additional aspects of Latin grammar and will practice translation skills. This course is designed to increase vocabulary and derivative knowledge, as well as reading proficiency. Cultural and historic excerpts from original Roman authors aids students as they prepare for the National Latin Exam. The student will be taught to compare, contrast and analyze what they are learning in the context of a Biblical world view.

Spanish I

1 credit

Grades 9, 10, 11

Regular Grading Scale

Spanish I introduces basics of the language, vocabulary acquisition, grammar/structure, and pronunciation, in order to build linguistic ability.

Students will develop listening, speaking, reading, and writing skills.

Honors Spanish I

1 credit

Grades 9, 10, 11

Honors Grading Scale

Prerequisites: "A" in Middle School English or Spanish and teacher recommendation

Honors Spanish I is a program for highly-motivated students with previous exposure to basic Spanish vocabulary and grammar. Students will develop proficiency in reading, listening, writing and speaking skills in a fast-paced learning environment while preparing them for Honors/AP Spanish.

Spanish II

1 credit

Grades 9, 10, 11, 12

Regular Grading Scale

Prerequisites: Spanish I

This course builds on the foundation of Spanish I. Students learn extensive vocabulary and more complex grammar structures. Reading, writing, speaking, and listening skills are central to the course.

Honors Spanish II

1 credit

Grades 9, 10, 11, 12

Honors Grading Scale

Prerequisites: "A" in Spanish I or in Honors Spanish I, and teacher recommendation

This is an accelerated program for highly motivated students. Students will be challenged in a fast-paced learning environment with advanced projects to enhance verbal communication, reading, writing and listening skills while preparing them for higher level Spanish.

Honors Spanish III

1 credit

Grades 10, 11, 12

Honors Grading Scale

Prerequisites: "A" in Spanish II and teacher recommendation

This course builds on and adds to the grammar and vocabulary concepts learned in Spanish II, while focusing on increased fluency in written and oral communication, as well as interpretation of the language through listening and reading. Students will develop confidence in communicative ability through situational experiences while being prepared for the rigor of Spanish AP/IV.

AP Spanish Language

1 credit

Grades 11, 12

AP Grading Scale

Prerequisites: "A" in Spanish III and teacher recommendation

This class parallels a third-year college course in advanced Spanish writing and conversation. It encompasses oral skills, reading comprehension, grammar, and composition. This course emphasizes the use of Spanish for active communication, and focuses on the following objectives; 1) the ability to comprehend formal and informal spoken Spanish; 2) the acquisition of vocabulary and a grasp of structure to allow the easy, accurate reading of newspaper and magazine articles, as well as of modern literature in Spanish; 3) the ability to compose expository passages; and 4) the ability to express ideas orally with accuracy and fluency. Near the completion of this course, students will take the AP exam to qualify for college credit. A testing fee is charged for this course.

LEGEND

+ An elective course does not take the place of a required course.

Denotes core classes at CAL approved by the Eligibility Center.

College bound student athletes - the NCAA has approved courses for use in establishing the initial eligibility certification status of student athletes. Students hoping to play sports in college for a Division I school must complete 16 core classes in high school. To play Division II you must complete 14 core classes in high school. Division III does not use the Eligibility Center.

On-Line Courses described in this Course Description Catalog, CAL will pay for the course, but if the student drops after the drop date set by the on-line institution, the parents will need to reimburse CAL for all costs incurred. Prices vary per institution and course.

Dual Credit Opportunity Students may take classes at CAL and earn college credit while they are earning high school credit. This includes on-line courses with numerous colleges. Your counselor will have additional details on each course and the specific requirements for each institution. There is an additional cost that is paid to the college,

Diploma Programs

The **Standard Program** provides a basic traditional education.

General Requirements:

1. The student shall attend eight semesters, grades 9-12.
2. The student shall complete a minimum of 22 credits including one credit of Bible for each year of attendance at CAL.
3. The student shall complete 15 hours of community service per year, grades 9-12. Half of the hours **may** be completed in a church setting, and half **must** be served in a community setting. Students are encouraged to complete 15 hours each year they are at CAL rather than large projects that cover multiple years.

Specific Requirements:

- Bible—4 credits (or 1 credit for each year at CAL)
- English—4 credits
- Mathematics—4 credits
- Science—3 credits
- Social Studies—3 credits
- Physical Education—1/2 credit
- Health Education—1/2 credit
- Fine Arts—1 credit
- Electives—2 credits

The **College Preparatory Program** is more intense and includes course work required by major colleges and universities.

General Requirements:

1. The student shall attend eight semesters, grades 9-12.
2. The student shall complete a minimum of 24 credits including one credit of Bible for each year of attendance at CAL.
3. The student shall achieve a minimum cumulative weighted grade point average of 3.0.
4. The student shall complete 15 hours of community service per year, grades 9-12. Half of the hours **may** be completed in a church setting, and half **must** be served in a community setting. Students are encouraged to complete 15 hours each year they are at CAL rather than large projects that cover multiple years.

Specific Requirements:

- Bible—4 credits (or 1 credit for each year at CAL)
- English—4 credits
- Mathematics—4 credits
- Science—3 credits
- Social Studies—3 credits
- World Languages—2 credits
- Physical Education—1/2 credit
- Health Education—1/2 credit
- Fine Arts—1 credit
- Electives—2 credits

The **Honors Program** provides a challenging course of study for top students and includes courses that offer the opportunity to earn college credit while at CAL.

General Requirements:

1. The student shall attend eight semesters, grades 9-12.
2. The student shall complete a minimum of 24 credits including 1 credit of Bible for each year of attendance at CAL.
3. The student shall achieve a minimum cumulative weighted grade point average of 3.5.
4. The student shall follow the specified honors track in two of the following subjects: English, Math, Science, Social Studies or World Languages and must have gained three credits in each of the two subject areas chosen.
5. The student shall complete 15 hours of community service per year, grades 9-12. Half of the hours **may** be completed in a church setting, and half **must** be served in a community setting. Students are encouraged to complete 15 hours each year they are at CAL rather than large projects that cover multiple years.

Specific Requirements:

Same as College Preparatory

Diploma Distinctions

- Biomedical Science
caschools.us/school-of-biomedical-science
- Fine Arts
caschools.us/school-of-the-arts
- Spiritual Formation
caschools.us/school-of-spiritual-formation

Honors & AP Courses

Business and Computer

AP Computer Science A
AP Computer Science Principles

English

Honors English I-IV
AP English Literature & Comp
AP English Language & Com

Fine Arts

Honors Chamber Orchestra
Honors Chorale
Honors Jazz Band
Honors Wind Ensemble
Advanced Ceramics & Sculpture
Advanced Drawing & Painting
AP Art Studio Drawing
AP 2-D Design
AP 3-D Design
AP Music Theory

Math

Honors Algebra I-II
Honors Calculus
AP Calculus AB
Honors Geometry
Honors Precalculus
AP Statistics

Science

Honors Anatomy & Physiology
Honors Biology
Honors Biology/Principles of Biomedical Science
Honors Physics
AP Biology
Honors Chemistry
AP Chemistry
Biomedical Innovation
Human Body Systems and Health Education
Medical Interventions
Principles of Biomedical Science

Social Studies

Honors U.S. Government/Econ
Honors U.S. History
AP U.S. History
Honors World Civilization
AP Government and Politics
AP Human Geography
AP Microeconomics
AP Psychology
AP World History

World Languages

Honors Spanish I, II, III
AP Spanish Language

Four-Year Planner

9th Grade

Bible I (S1) _____
Bible I (S2) _____
English 1 _____
Health and P.E. _____
Math _____
Science _____
Elective _____
Elective _____
Elective _____

11th Grade

Bible III (S1) _____
Bible III (S2) _____
English III _____
U.S. History _____
Math _____
Science _____
Elective _____
Elective _____
Elective _____

10th Grade

Bible II (S1) _____
Bible II (S2) _____
English II _____
World Civilization _____
Math _____
Science _____
Elective _____
Elective _____
Elective _____

12th Grade

Bible IV (S1) _____
Bible IV(S2) _____
English IV _____
Math _____
U.S.Gov & Economics _____
Elective _____
Elective _____
Elective _____
Elective _____

NOTES

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