

# COURSE CATALOGUE

2024-25 High School Courses Offered at Collegedale Academy

Unless otherwise indicated, credit refers to two semesters of a course.  
Classes must have a minimum of 10 students to be offered.

## CONTENT AREAS:

- ENGLISH LANGUAGE ARTS
- FINE ARTS
- FOREIGN LANGUAGE
- MATHEMATICS
- PHYSICAL EDUCATION, WELLNESS, AND SAFETY
- PRACTICAL ARTS/TECHNOLOGY
- BIBLE
- SCIENCE
- SOCIAL STUDIES

## ENGLISH LANGUAGE ARTS

### **Composition 101/102..... 1 Credit**

Advanced writing courses offered as dual credit with SAU. Only seniors with ALL four of the following may take the course:

- “B+” average in English courses
- 3.0 cum. G.P.A
- ACT English score of 23, including a writing score of at least 7 in all categories
- Strong record of attendance and recommendations of Junior teachers

\*\*2-3 Sunday writing sessions per semester that are NOT optional. If this is a scheduling issue, please consider English IV as an alternative.

\*\*AN EXTRA FEE IS REQUIRED FOR DUAL ENROLLMENT. See “Scholarships” for more information. Six hours of college credit is possible. Only dual enrollment students may take this course.

### **English I..... 1 Credit**

This freshman course includes a study of English grammar, mechanics, spelling, and vocabulary. Students develop skill in writing short compositions and study literary works of various types. A library unit is included in the course.

### **English II..... 1 Credit**

Sophomore English builds on the skills learned in English I. Students review English grammar and mechanics, practice their writing skills, and study selected literary works.

### **English III..... 1 Credit**

This course is designed to enhance students’ communication skills, and focuses on the expansion and development of English language skills through the study of grammar, vocabulary, various composition techniques, and American literature. The communication and critical thinking skills necessary for functioning effectively in a diverse society are emphasized.

### **English IV..... 1 Credit**

This course, the culmination of Collegedale Academy’s English curriculum, covers several literary genres, ACT preparation, MLA research paper format, and writing quality essays of varying styles and length in preparation for college writing. The student will develop skills necessary to produce written texts that can be read and interpreted by various audiences.

## FINE ARTS

The Fine Arts requirement may be met by taking 2 units of fine arts in any combination of the following courses offered. Students are required to take fine arts through classes at CA

### Art Courses

#### **Art Appreciation..... 1 Credit**

Project based class that focuses on a broad variety of art styles, technique, media and artists. Extra fee applies for supplies. This course is designed for freshmen/sophomores.

#### **Digital Drawing/Painting..... 1 Credit**

This class explores drawing and painting from realism to non-objective works. Technique, perspective and color theory are addressed in this class. This course is reserved for juniors/seniors. Extra fee applies for supplies.

#### **Sculpture..... 1 Credit**

Techniques and styles of art in a 3-dimensional form are studied. Students will create pieces utilizing a variety of media and styles focusing on assembled, casted, modeled, subtractive and additive techniques. This course is reserved for juniors/seniors. Extra fee applies for supplies.

### Music Courses

#### **Chamber Orchestra..... 1 Credit**

An ensemble for the mid to advanced level string player. Works studied will cover a broad range of time periods of both sacred and secular styles. This group performs and tours regularly. Admission is by audition only. A uniform is required.

#### **Choral Union..... 1 Credit**

All students who do not try out for OPUS will be assigned to this choir. This choir will have limited concert performances. A uniform is required.

#### **Concert Band..... 1 Credit**

This is an organization for those who enjoy playing band music and have had training on a band instrument. Admission is by audition only. A uniform is required. This group performs and tours regularly.

#### **Jazz Band..... .5 Credit**

Reserved for students already in Concert Band. By audition only.

#### **Opus..... 1 Credit**

This is a small, mixed chamber choir open to qualified juniors and seniors who have spent at least one year in Chorale Union or are transferring seniors with choral experience. Membership is by rigorous audition only; juniors and seniors are not automatically entitled to Opus membership. Opus will participate in an off-campus tour each year. Students auditioning for Opus should realize that Opus is a time-intensive class.

#### **Music in Western Culture..... .5 Credit**

Music in Western Culture is a semester long study in music appreciation. All kinds of music from the middle ages to the present day will be studied. Extra fee for field trips may apply. This is a dual credit class through SAU. Only seniors are eligible for dual credit. Dual enrollment requires a 3.0 GPA. AN EXTRA FEE IS REQUIRED FOR DUAL ENROLLMENT. See "Scholarships" for more information. Three hours of college credit is possible. Non dual-enrollment students may also take this course for high school credit only.

## **FOREIGN LANGUAGE**

### **FRENCH**

**French I..... 1 Credit**

Development of the basic skills of understanding, speaking, reading, and writing of French, with emphasis on French culture. Taught alternate years with French II. Upperclassmen will get preference if class size is an issue.

**French II..... 1 Credit**

Continued emphasis on the development of understanding, speaking, reading, and writing of French with attention given to the culture, customs, and practices of French-speaking people of different countries. Taught alternate years with French I.

### **SPANISH**

**Spanish I..... 1 Credit**

This course teaches the development of the basic skills of understanding, speaking, reading, and writing of Spanish, with emphasis on Hispanic culture.

**Spanish II..... 1 Credit**

Continued emphasis on the development of understanding, speaking, reading, and writing of Spanish with attention given to the culture, customs and practices of Spanish-speaking people of different countries.

# MATHEMATICS

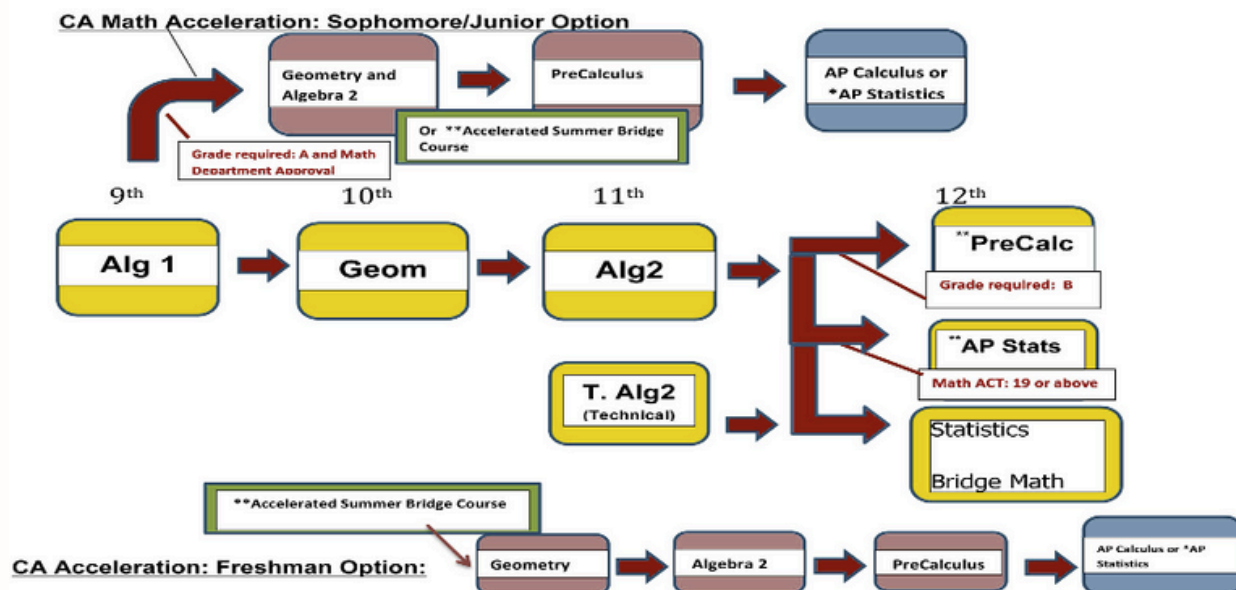
## Mathematics sequence:

- Standard Diploma: Algebra I, Geometry (Technical), Algebra II (Technical), Bridge Math or Statistics. (Pre-Cal is NOT recommended for this sequence.)
- College Preparatory: Algebra I, Geometry, Algebra II, and 4th higher math
- CA Scholars Diploma: Algebra I, Geometry, Algebra II, Pre-Calculus or AP Statistics

## Pathways to Calculus in High School (at CA): *all prerequisites must be met*

1. Compacting in Middle School—Students - Complete standards for grades 6,7,8 and Algebra 1 by the end of grade 8.
2. Doubling Up in High School—Students take 2 math courses in grade 10 (Geometry & Algebra 2)
3. Completing accredited online classes from Egeunity or Griggs University with passing grade during summer, such as Algebra 1 (before entering 9th grade) or Geometry (before entering 10th grade) or Algebra 2 (before entering 11th grade).

## Collegedale Academy Math Pathways



Students must have proof of completion (via transcripts) of online courses taken before taking any math class, such as Geometry, Algebra 2 or Precalculus.

Since Tennessee State Board of Education requires students to take a math course every year during their four years in high school, the pathway to Calculus will mandate the student to take Pre-calculus, even if plans to take AP Calculus is replaced with AP Statistics.

## MATHEMATICS

### **Algebra I..... 1 Credit**

A basic course designed to develop algebraic concepts through examples. Topics covered are simple and linear equations, systems of equations, polynomials, square roots, quadratic equations, rational expressions, and right-triangle trigonometry. Prerequisite: Acceptable performance on the Iowa Algebra Aptitude Test.

### **Algebra II..... 1 Credit**

Sets of numbers, open sentences in one variable, systems of linear open sentences, polynomials and factoring, rational numbers, relations and functions, irrational numbers and quadratic equations, quadratic relations and systems, exponential functions and logarithms, trigonometric functions and complex numbers, determinants, matrices, and series. Prerequisite: completion of Algebra I and Geometry with "C" grades or better. Those who took Technical Geometry (#30022) should take Technical Algebra II (#30023).

### **AP Calculus AB..... 1 Credit**

This is an Advanced Placement course in single variable calculus that follows the syllabus prepared by the College Board. The course builds on a rigorous treatment of topics covered in Precalculus and includes differential and integral calculus with applications. Students who successfully complete the course and AP exam during the second semester may receive credit, advanced placement, or both for a one-semester introductory college courses. Pre-requisites: Pre-Calculus with "B" in 1st and 2nd semester and teacher recommendation. College credit available by AP exam with additional fee.

### **Bridge Math..... 1 credit**

Bridge Math will review and apply key mathematical concepts and skills in order to better prepare students for college level math courses. Students in Technical Algebra 2 and Math ACT  $\leq$  16 are welcome.

### **Geometry..... 1 Credit**

Careful attention is given to logical development of deductive thinking, patterns, theorems, constructions, circle relationships, and solids. Some coverage of proofs, trigonometry, and similarity is also included. Prerequisite: A "C" grade or above in Algebra I. Technical Geometry is also offered, course #30022.

### **Pre-Calculus..... 1 Credit**

A math course designed to cover the same topics as a college Pre-Calculus course. Prerequisites: Pre-requisites: Regular Algebra 2 with "B" in 1st and 2nd semester and Math ACT  $\geq$  19 and teacher recommendation. Sophomores: teacher recommendation and Algebra II grades.

### **Statistics (CL) Dual Enrollment..... 1 credit**

This is a dual enrollment course that follows the syllabus prepared by the Math Department of Southern Adventist University. The course introduces students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data, including data exploration, probability and simulation, and statistical inference. Prerequisite: Regular Algebra 2 with "B" in 1st and 2nd semester and Math ACT  $\geq$  (greater and equal to) 19 and teacher recommendation. GPA of 3.0 for seniors and 3.5 for juniors. College credit available via SAU with additional fee.

### **Statistics..... 1 credit**

This course will introduce the student to statistics using probability theory, linear algebra and analysis. Major themes will include mathematical processes, exploring data, sampling and experimentation, anticipating patterns, and statistical inference. Pre-requisites: Regular Algebra 2 with "C" in 1st and 2nd semesters. Technical Algebra II with "A" grades in 1st and 2nd semester.

## PHYSICAL EDUCATION, WELLNESS, AND SAFETY

CA students are required to take 3.0 credits of PE, which includes Wellness that meets the Health class requirement for graduation.

All PE students are required to dress out for class. The PE dress code includes:

- Athletic shoes
- CA Athletic pants/shorts
- CA T-shirts

**Absences/illnesses in P.E.**—students requiring an individualized program in PE classes due to medical issues will be required to take the PE department’s form to their physician for proper referral. The physician will then indicate appropriate PE activities for the situation. Full medical excuse will need Leadership Team approval.

### **Acro Force..... 1 Credit**

The Acro Force team is a year-long course of a select group of gymnasts chosen to represent the school in performances. Students will be selected on the basis of skill, character, GPA, and work ethic. Attendance is extremely important in this course as team and large group routines are stressed above individual routines. Continuous participation is open to the coach’s discretion. A uniform is required.

### **Athletics..... .5 Credit**

Students that are selected to participate on an interscholastic sports team will receive academic credit for Team Sports. Note: two sports would be needed to replace the full-year Team Sports class.

### **Cardio/Strength Training..... 1 Credit**

A course designed to help students develop fundamental skill and knowledge in fitness. Proper cardio-conditioning and strength training techniques will be taught. Different cardio and strength assessments will be used to determine students’ exercise regimen.

### **Independent PE..... .1 Credit**

A course only open to those over-scheduled in need of a P.E.

### **Team Sports..... 1 Credit**

A course to instruct and aid students in physical fitness with an emphasis on skills, rules, and social play on selected team sports. Basic strength and cardio-conditioning for the selected sports will be included. Students may repeat once for credit.

### **Wellness..... .1 Credit**

A theory and activity course covering physiology, nutrition, mental health, fundamentals of personal and community health and safety education. Health knowledge and practices peculiar to the Adventist church that will specifically be covered. A semester of PE is also part of this course.

## **PRACTICAL ARTS/TECHNOLOGY**

### **Advanced Woods and Cabinetry..... .5 Credit**

This course will cover the building of furniture-type projects. The first semester the students will build a five-drawer dresser. The second semester the students will select projects and build those under the guidance of the instructor. This class is limited to juniors and seniors.

### **Computer Science I ..... .5 Credit**

In this class, students develop intermediate skills computer skills such as word processing, coding, etc.

### **Emerging Tech..... .5 Credit**

This class is a broad based look and hands-on learning with technology in our society.

### **Game Design..... .5 Credit**

This class is a project based class using technology to develop computer science skills.

### **Home Maintenance..... .5 Credit**

This class will cover skills common to the building trades including electrical, plumbing and carpentry basics.

### **Journalism..... .5 Credit**

This is a lab class in which students will develop journalistic writing skills as well as hands-on experience with electronic mediums for producing the Echolier. .25 credit per semester.

### **Life Skills..... .5 Credit**

In this class, students will explore the world of work and home management. Life Skills will cover cooking, relationships, and family values. Life Skills is a one semester course.

### **P.A.C.E..... .5 Credit**

Practical Academic and Career Education is a one semester course designed to help students prepare for standardized tests and explore various career options.

### **Personal Finance..... .5 Credit**

Personal Finance is a course designed to inform students how individual choices directly influence occupational goals and future earnings potential. Real world topics covered will include income, money management, spending and credit, as well as saving and investing. This is a one semester course required of all graduates.

### **Study Skills..... .5 Credit**

This is a course required for all freshmen. Study Skills will help new students cope with higher academic expectations, explore new study techniques, and complete homework during this one semester course.

### **Yearbook ..... .5 Credit**

In this class, student develop skills in writing, computer layout, and photography as they plan and produce the school yearbook, the Valley Echo. .25 credit per semester.

## **BIBLE**

**Bible I: ..... 1 Credit**

Topics include the reality of God, the character of God, a God worth knowing, God on earth, the Passion Week, resurrection, creation, Sabbath, grace and identity.

**Bible II:..... 1 Credit**

Choosing God: Hosea, David, Jesus. Serving God: Acts, serving today

**Bible III: Revelation, Romans, Beliefs..... 1 Credit**

This course is an intensive study of major Bible doctrines. The fundamental beliefs of the Seventh-day Adventist Church are emphasized.

**Bible IV: ..... 1 Credit**

A course designed to help students develop a personal appreciation for God's Word, especially through the study of the Book of Romans, and to probe some of life's most important issues-careers, stewardship, relationships/marriage, the study of other belief systems, and developing a Christian philosophy of life.

**Community Service: ..... 1 Credit**

Twenty hours of community service are required for each year in attendance at Collegedale Academy. Hours may be earned from June 1 to May 1 of a given school year. CAD4HOPE IS included in the yearly required hours (8 total hours will be issued for that participation). This is a graduation requirement.

## SCIENCE

### Science Sequence:

- **Standard Diploma (3 credits):** Physical Science, Biology, plus one of the following: Chemistry or Physics
- **College Prep./University Diploma:** Choose sequence A or B (3 credits):
  - A: Physical Science, Biology, plus one of the following: Chemistry or Physics
  - B: Biology, Chemistry or Physics, and one other lab science

### **Biology I..... 1 Credit**

The science of biology is the study of life, and correctly understood by using the Bible as our foundation, the science of biology consistently reveals the Creator of Life. This required course builds a solid foundation in the life sciences through the study of ecology, classification, zoology, botany, genetics, microbiology, and cytology. Regular laboratory investigations reinforce textual materials.

### **Chemistry..... 1 Credit**

An interesting course involving the student in the study of chemical laws and theories using approved laboratory techniques. Topics investigated are atomic structure, periodic table, bonding, states of matter, chemical equilibrium, oxidation-reduction, nuclear and organic chemistry. Prerequisite: A "C" grade or above in Algebra I or permission of instructor.

### **Physics..... 1 Credit**

Topics taught are Newton's laws of motion, conservation of momentum and energy, wave properties, light, static electricity, series and parallel circuits, magnetic fields and radioactivity. This is a lab course. Prerequisites: A "B" grade or above in Algebra I and Geometry or Algebra I and Algebra II, or permission of instructor.

### **Physical Science.....1 Credit**

## **SOCIAL STUDIES**

### **American Government..... .5 Credit**

A first-semester course designed to give students a comprehensive view of the American governmental system in action. Emphasis is given to an understanding of the foundations of American government, political parties and elections, the functions of the three branches of government, and comparative political systems. State and local government systems will also be covered. This is a senior-level class. Prerequisite: U.S. History.

### **AP U.S. History..... .5 Credit**

“AP U.S. History is an introductory college-level U.S. history course. Students cultivate their understanding of U.S. history from c. 1491 CE to the present through analyzing historical sources and learning to make connections and craft historical arguments as they explore concepts like American and national identity; work, exchange, and technology; geography and the environment; migration and settlement; politics and power; America in the world; American and regional culture; and social structures.”

Students are responsible for registering for the AP exam and the extra fee. Testing is in May. The exam is scored from 1-5. Some colleges accept credit based on a score of 3 or more (*SAU does not currently accept credit from this course*).

### **Economics..... .5 Credit**

A second-semester course designed to acquaint students with knowledge of basic economic principles with emphasis on factors affecting production, distribution, money and banking, business cycles, inflation, and other topics of economic importance. Other economic systems than capitalism are also briefly surveyed. This is a senior-level class. Prerequisite: American Government.

### **United States History..... 1 Credit**

A course designed to acquaint students with the heritage of our country from the days of discovery to the present time. Students joining the class second semester should be familiar with American history through Reconstruction Era.

### **World History and Geography ..... 1 Credit**

A course designed to give students up-to-date introductions to various significant cultural regions of the world. Emphasis is given to the people—how they are affected by history and geography, their political and economic standards, their education, arts, language and religion. The course will concentrate on the use of charts, graphs, tables and other source materials.