

**Gilbert Christian Schools**  
**Serving our Lord one student at a time**



**2011/2012**  
**Gilbert Christian High School**  
**Course Catalog**

# **Gilbert Christian High School Diploma Requirements**

## **Bible**

Four credits of Bible are required.

## **English**

Four credits of English are required.

## **Fine Arts**

One performing arts class is required.

## **Mathematics**

Four credits of math are required. This requirement may be fulfilled by any of the courses in the catalog. Transcripts, placement tests, and teacher recommendations will be used to place students at appropriate levels. Algebra 1, Algebra 2, Geometry, and Pre-Calculus are strongly recommended for all college-bound students.

## **Physical Education**

One year of physical education is required. There are two ways to meet this requirement: (1) The student may enroll in one year of Gilbert Christian High School PE, for which credit is given; or (2) The physical education requirement may be waived by a student's participation in a Gilbert Christian High School sports team or outside athletic organization. If a student logs and verifies 90 hours of participation in an organized sport (45 hours is a typical season), then the student has fulfilled the physical education high school diploma requirement, but no credit is given. The student-athlete who has received a waiver of the physical education requirement may select an elective of his or her choice.

## **Science**

Three credits of lab science are required (including Biology and Chemistry).

## **Social Studies**

Three credits of social studies are required (including World Geography, US History and Economics/American Government).

## **Spanish**

Two credits are required in ninth and tenth grades; however, students are strongly encouraged to take four years of Spanish in high school.

### **Credits required for graduating seniors:**

<b>Graduating Class</b>	<b>Credits Required</b>
2012	30
2013	29
2014 and beyond	28

# Bible

Four credits of Bible are required for a GCHS diploma.

## **BIBLE109 – NEW TESTAMENT LETTERS (EPISTLES)**

**PREREQUISITES: NONE**

**1 YEAR**

**1 CREDIT**

Freshman Bible students will learn of the supremacy of Christ in striking contrast to the erroneous teaching of that time period. Students will see the full scope of the Gospel of Jesus Christ as taught by Paul in Romans; they will observe another facet or view of the Gospel as taught by James to the dispersed; and they will be exposed to how the Gospel was defined to the Greeks and pictured to the Hebrews. Enrichment books may also be included.

## **BIBLE110 – INTRODUCTION TO THE BIBLE**

**PREREQUISITES: NONE**

**1 YEAR**

**1 CREDIT**

Sophomore Bible students are exposed to every book of the Bible's authors, dates, main themes and purposes. First semester introduces the Torah, Prophets, and Writings; second semester covers the New Testament, including the Gospels, Acts, the Epistles, and Revelation. Students' knowledge of each book's big idea and significant verses will be tested. Enrichment books may also be included.

## **BIBLE111 – INTRODUCTION TO THEOLOGY**

**PREREQUISITES: NONE**

**1 YEAR**

**1 CREDIT**

Junior Bible introduces students to the main ideas in each of the ten major sections of systematic theology and teaches them how to formulate and defend a theological position. First semester covers Bibliology, Theology Proper, Christology, Pneumatology, and Angelology. Second semester covers Anthropology, Hamartiology, Soteriology, Ecclesiology, and Eschatology. Enrichment books may also be included.

## **BIBLE112 - INTRODUCTION TO APOLOGETICS**

**PREREQUISITES: NONE**

**1 YEAR**

**1 CREDIT**

Senior Bible immerses students in the main characteristics of the Christian Worldview and gives them wisdom to help make some of the most important decisions of their lives. First semester provides students with the ability to think through and defend the truth against today's most controversial issues. Second semester introduces the three fastest growing religions in the West: Islam, Mormonism and the Occult. Enrichment books may also be included.

# College Preparation

Junior and senior students may enroll in Life Skills. Senior students may design an internship to prepare for college.

## **LIF102 (SENIORS) LIF103 (JUNIORS) - LIFE SKILLS (ELECTIVE)**

**PREREQUISITES: NONE**

**1 SEMESTER**

**0.5 CREDIT**

**SENIORS ONLY FIRST SEMESTER; JUNIORS ONLY SECOND SEMESTER**

This class prepares students to search and apply for colleges, review careers and degrees, sign up online for scholastic tests, write a resume and personal statements including essays for scholarship applications, write letters of requests, and more. Also included is instruction in fundamental life skills: first-aid, automobile care, banking, conducting interviews, etiquette, sewing, nutrition, and cooking. Each student will manage his own life budget, including receiving pay from a hypothetical job and paying bills.

## **LIF101 – 12TH GRADE INTERNSHIP (ELECTIVE)**

**PREREQUISITES: LIF102**

**1 SEMESTER**

**0.5 CREDIT**

### **SENIORS ONLY; SECOND SEMESTER ONLY**

This custom course is designed by the senior GCHS student and approved by administration. It enables a senior to gain work experience off campus in his or her area of interest while earning high school credit. The internship may be paid or unpaid, but an approved, cooperating agreement with an outside “employer” is required. The student may be off campus the last period of the day to complete the internship. Interested students may apply for the internship by completing the form available in the office. The deadline for a final proposal is the end of November.

## **Computers**

### **CIS111 – HIGH SCHOOL ADVANCED COMPUTING (ELECTIVE)**

**PREREQUISITES: NONE**

**1 YEAR**

**1 CREDIT**

The advanced computing course teaches students life-long skills that will enable them to understand the technological requirements for both college and the workplace. It will cover multiple areas including hardware and operating systems of modern computers (Macintosh and Windows), advanced business applications usage (word processing, spreadsheets and power point), introduction to HTML web development and server/network implementation. Students will be able to advance in the areas of knowledge that they have particular interest in.

## **English**

Four credits of English are required for a GCHS diploma.

### **ENG109 - 9TH GRADE ENGLISH**

**1 YEAR**

**1 CREDIT**

This course includes a study of well-known nineteenth and twentieth century British and American authors and a unit on Shakespeare. All novels are examined from a Christian world view. Individual attention is given to students for composition assignments, which include a research paper, various expository essays, and responses to literature. An intensive grammar study and emphasis on the six traits of writing will further develop writing skills.

### **ENG209 - 9TH GRADE HONORS ENGLISH**

**1 YEAR**

**1 CREDIT**

**PREREQUISITES: INSTRUCTOR APPROVAL**

This course begins preparing students for college-level reading and writing. There is a focus on critical thinking using methods like Socratic Seminar. Non-fiction analysis is introduced and various British and American authors are studied from a Christian worldview. Composition assignments include research writing, literary analysis, and creative writing. Students will continue to work on mechanics, writing conventions, and vocabulary that will prepare them for university as well as standardized tests such as the SAT and the ACT. This is a grade-weighted class.

**ENG110 - 10TH GRADE ENGLISH****PREREQUISITES: ENG109****1 YEAR****1 CREDIT**

This course will expose students to a variety of readings from classics of the English speaking world. Students will be provided with individual attention to help strengthen and expand their reading skills. Writing skills will also be expanded with plenty of scaffolding to enable students to go beyond summarizing to write persuasively. An emphasis on mechanics and vocabulary will move students toward a more mature writing style that is clear and persuasive.

**ENG210 - 10TH GRADE HONORS ENGLISH****PREREQUISITES: INSTRUCTOR APPROVAL****1 YEAR****1 CREDIT**

This course is designed to prepare students for college-level reading and writing by having them analyze and evaluate college-level texts and develop their own fluent and clear expression of thought. Honors students will be exposed to a wide variety of fiction and non-fiction texts from the English speaking world as well as translations of works from other areas of the world written in the past 500 years and classics from the ancient world. Students will continue to work on mechanics, writing conventions, and vocabulary that will prepare them for university as well as standardized tests such as the SAT and the ACT. This is a grade-weighted class.

**ENG111 - 11TH GRADE ENGLISH****PREREQUISITES: ENG110****1 YEAR****1 CREDIT**

This course will continue to emphasize writing in a clear, well organized, and focused fashion. Students will be taught to evaluate their own writing for clarity and learn the basics of researching and documenting their source in MLA style. Students will be assisted and encouraged to expand their writing skills to be able to communicate clearly. They will continue to expand their reading skills with a variety of readings from fiction and non fiction sources with an emphasis on vocabulary and comprehension. Support will be provided at every level to ensure progress toward skills that will enable students to read and write at a competent level.

**ENG211- 11TH GRADE HONORS ENGLISH****PREREQUISITES: INSTRUCTOR APPROVAL****1 YEAR****1 CREDIT**

Honors students in this course will continue to move out of their comfort zone with challenging fiction and non-fiction texts from Christian and secular authors. Students will move beyond summarizing to evaluating and integrating other writer's ideas through analysis and synthesis of ideas. Writing will emphasize argumentation through use of effective rhetorical skills. Students will develop their Christian worldview and be able to communicate that worldview effectively. Students will continue to develop a college-level vocabulary that will enable them to tackle university-level reading and writing. This is a grade-weighted class.

**ENG112 - 12TH GRADE ENGLISH****PREREQUISITES: ENG111****1 YEAR****1 CREDIT**

In this course students will be encouraged to read at a level that will prepare them for their post high school lives. Student will read a variety of classics from the canon as well as non-fiction pieces. Students will develop their critical thinking skills as they evaluate, analyze, and draw conclusions from their reading. Students will continue to receive support in their writing as they move toward being able to communicate in a fluent and clear style.

## **ENG101/ENG102 - FIRST YEAR COLLEGE COMPOSITION DUAL ENROLLMENT**

**PREREQUISITES: ENG111, INSTRUCTOR APPROVAL 1YEAR 1HS CREDIT/6 COLLEGE CREDITS**

**Fee: This course requires additional tuition payment to ACU at the beginning of the course. (See FAQ sheet.)**

This college-level course is offered for both high school and college credit. In this course students will be challenged to express their ideas at collegiate level for an academic audience. Emphasis will be placed on critical thinking skills that analyze, evaluate, draw conclusions, and gain insight. Response papers to academic essays will comprise a large portion of this course. Students will be required to express themselves in an engaging, thoughtful, informative, and creative style. Students will be taught how to interact with ideas they will encounter in their university experience. Students will continue to hone their skills using formats and documentation styles to be able to write effectively in academia. This course is offered as dual enrollment through Arizona Christian University for 6 credit hours. This is a grade-weighted class.

## **ENG105 – READING COMPREHENSION – COMPREHENDING CONTENT AREA TEXT**

**ENGLISH ALTERNATIVE -9TH GRADE; ELECTIVE 10TH-12TH GRADES**

**PREREQUISITES: NONE**

**1 YEAR**

**1 CREDIT**

This course is designed to be taken in conjunction with the student's grade-level English class for sophomores, juniors, and seniors. Freshmen may substitute this course for 9<sup>th</sup> Grade English (ENG109) upon teacher and administrative approval. The curriculum *Read to Achieve* is used to teach comprehension skills and strategies to increase success in textbook-based classes. Students will learn how to effectively read science and social studies texts, take notes from textbooks and classroom lectures, and utilize real world study skills and work strategies. Second semester work will focus on content-area text. Students will go through an intensive curriculum designed to help students read informational passages more effectively, take notes from textbooks and classroom lectures, and study from notes. Examples from science and history texts will be used to practice these skills and strategies. The instructional sequence progresses from strong teacher support to student independence.

## **ENG120 – INTERNATIONAL ENGLISH**

**PREREQUISITES: NONE**

**1 YEAR**

**1 CREDIT**

This class will be taken in conjunction with a grade-level English class and will subsequently serve as a resource class for the unique needs of the international student. Students will expand their knowledge of the English language through a curriculum written specifically for second language learners that includes writing, speaking, and listening skills. There is an emphasis on conversational English and learning and using English idioms and expressions. Units will also include preparation for the TOEFL and English portions of the SAT. All international students are required to enroll in this course while attending GCHS unless otherwise approved by the teacher and administration.

# Fine Arts

One performing arts class is required to earn a GCHS diploma. Visual arts are electives.

## **ART101 - INTRODUCTION TO ART AND DESIGN (ELECTIVE)**

**PREREQUISITES: NONE**

**1 YEAR**

**1 CREDIT**

Based on the premise that everyone can learn to draw well in a very short time, this class introduces five basic perceptual skills necessary for drawing: edges and contours, space (positive and negative), relationships (perspective and proportion), light and shadows, and unified composition. By the end of first semester, these beginning students will be able to see and draw “realistically” as an artist does. It explores various fundamental concepts and elements of visual art, such as line, shape, form, mass, scale, proportion, perspective, contrast, value, and space. Once the core perceptual drawing skills are learned, the class begins to explore basic drawing media, such as graphite, charcoal, and pen and ink; and mixed media during which various drawing techniques and other materials are introduced. Second semester introduces the basic concepts of color.

## **ART102 - ART I (ELECTIVE)**

**PREREQUISITES: ART101**

**1 YEAR**

**1 CREDIT**

This class expands the student’s drawing skills gained from ART101 and is designed to enable the drawing student to continue to develop the ability to see and draw as an artist does, while exploring more in-depth, prolonged drawing, painting, and mixed media projects. It includes applications of various fundamental concepts and elements of visual art, such as line, shape, form, mass, scale, proportion, perspective, contrast, value, color, and space. Students continue to explore drawing media, including graphite, charcoal, pen and ink, and mixed media during the first semester (and painting media--such as watercolor and acrylic--during the second semester). Various drawing and painting techniques are simultaneously introduced while learning the use of various media and material. As students develop artistically, they are also taught skills in sketching and preparing their art portfolio for presentation. Some elements of art history are incorporated into the introduction of certain art projects.

## **ART202 - ART II (ELECTIVE)**

**PREREQUISITES: ART102**

**1 YEAR**

**1 CREDIT**

This class further develops the students’ drawing and painting skills gained from Art I. It is designed to enable the drawing students to develop their individual artistic expression and personal artistic “vocabulary” in the creation of new works of art. More advanced, prolonged drawing, painting, and mixed media projects of various subjects are explored with an emphasis on perfecting various skills and techniques while applying previously introduced fundamental concepts and elements of visual art. The course includes drawing with graphite, charcoal, pen and ink, and mixed media; painting with watercolor and acrylic on paper, wood panel, and canvas; and printmaking. The use of color will be further explored and emphasized in various projects. As students continue to develop artistically, various new subjects and opportunities will be introduced in order to prepare the student’s art portfolio for presentation. Various elements of art history are incorporated into the introduction of certain art projects. Students are taught to use sketch books regularly to develop ideas.

**ART103 - JOURNALISM (ELECTIVE)****PREREQUISITES: NONE****1 YEAR****1 CREDIT****Placement is based on interview and teacher approval.**

This course will cover the basics of reporting, writing, layout and design, photography and business management for the production and sale of the GCHS yearbook. Students will be an integral part of the yearbook team; therefore, a one-year commitment to this course is required. Students must be proficient in writing, grammar (heavy vocabulary) and computer skills. The book is produced using eDesign, an online publishing program.

**ART104 - INTRODUCTION TO CREATIVE DESIGN (ELECTIVE)****PREREQUISITES: NONE****1 YEAR****1 CREDIT**

This art class is a basic guide to visual fundamentals and introduces the students to two-dimensional design and three-dimensional creative design. First semester introduces students to 2-D design by learning six foundational design concepts and elements of visual art found in the design of nature itself: light/darkness, space, shape/form/mass, line, pattern, and color. This class is designed to enable the beginning art student to develop the ability to grasp basic, abstract design concepts and elements and employ them comprehensively in the creative process. First semester alludes to parts of the Biblical Creation account in Genesis as a guide and inspiration to a series of themed compositions and design projects. Working in black and white initially (before later integrating color in design), students apply the fundamental visual design principles as they create multiple mixed-media compositions using such material as matte medium, torn and cut paper, collage elements, and paint on wood panel and paper. Second semester introduces 3-D design, beginning with an introduction to Ceramics and followed by a number of mixed-media sculpture projects using wood, metal, paint, paper, pencil, and other material. An introduction to making creative, handmade books may also be explored. Some elements of art history are lightly incorporated into class lessons.

**MUP109 - GILBERT CHRISTIAN SINGERS****PREREQUISITES: NONE****9TH GRADE STUDENTS ONLY****1 YEAR****1 CREDIT**

The Gilbert Christian Singers is a non-auditioned, full-year, mixed chorus of ninth-grade students. The goals of this course will be age appropriate and are as follows: Students will develop proper vocal technique, learn to read music, sing a varied repertoire of vocal literature, and learn performance technique through a variety of performance experiences. Students will strive for excellence in both musical endeavors and personal character. Designated performance apparel is required. There is designated performance apparel. There will be three concerts during the year. With the approval of the director, students will have the opportunity to compete in events such as Solo-Ensemble Contest.

**MUP110 - CHORALE****PREREQUISITES: NONE****10TH - 12TH GRADE STUDENTS ONLY****1 YEAR****1 CREDIT**

The Chorale is a non-auditioned, full-year, mixed chorus of tenth through twelfth-grade students. The goals of this course will be age-appropriate and are as follows: Students will develop proper vocal technique, learn to read music, sing a varied repertoire of vocal literature, and learn performance technique through a variety of performance experiences. Students will strive for excellence in both musical endeavors and personal character. Designated performance apparel is required. There is designated performance apparel. There will be three concerts during the year, as well as performances in the community. With the approval of the director, students will have the opportunity to compete in events such as Solo-Ensemble Contest, Central Regional Choir, and Arizona All State Choir.

**THE109 - DRAMA (ELECTIVE)****PREREQUISITES: NONE****1 YEAR****1 CREDIT**

This class is open only to sophomores, juniors, and seniors. This course is an introduction to basic acting, utilizing the book *Acting for Life* as the primary text. Units are taught on subjects such as acting skills, techniques in character development, performance, and script work. Written quizzes and individual and group exercises are used to practice and evaluate progress. This is a performance-based course, and several in-class individual and group performances are required. Attendance at two community performances is required as well. Students taking this class are strongly encouraged, though not required, to participate in the two extra-curricular, full-length productions.

**STR109 – CONCERT STRINGS****PREREQUISITES: NONE****1 YEAR****1 CREDIT**

This class includes students who are new to our school or have never played a stringed instrument. It will involve individualized teaching, changing to a group approach by the first concert. The second semester will be an orchestral atmosphere as each student's level of proficiency increases. There are opportunities for solo and small ensemble performances as well. Some outside practice will be required. A one-year commitment is required for this course.

**STR110 - SINFONIA (STRINGS)****PREREQUISITES: NONE****1 YEAR****1 CREDIT**

This class includes students who have played a stringed instrument at the intermediate level. It will involve individualized teaching, changing to a group approach by the first concert. The second semester will be an orchestral atmosphere as each student's level of proficiency increases. There are opportunities for solo and small ensemble performances as well. Some outside practice will be required. A one-year commitment is required for this course.

**STR112 – CHAMBER (STRINGS)****PREREQUISITES: NONE****1 YEAR****1 CREDIT**

Placement is based on audition and teacher approval.

This class will be limited to 30 players, and students will be required to audition. Students should be able to read music, have a teachable attitude, and a desire to work hard and play more advanced music. More advanced techniques will be emphasized, and practice outside of school hours is required. The instruction will be primarily as an orchestra, and all students will be heard individually several times throughout the year. There are opportunities for solo and small ensemble performances as well. A one-year commitment is required for this course. Subject to enrollment.

# Mathematics

Four credits of mathematics are required and must be taken each year. This requirement may be fulfilled by any course listed in the catalog. Transcripts, placement tests and teacher recommendations will be used to place students at appropriate levels. Algebra I, Geometry and Algebra II is required for all students unless waived by administration for graduation. As a minimum in each course, the student must complete the required topics in the specified school semester(s) to receive one full credit for the course.

**MAT110 - ALGEBRA I** **1 YEAR** **1 CREDIT**

**PREREQUISITES: Teacher recommendation and/or placement exam**

This a course which develops the foundations for Algebra. It includes topics of solving equations and inequalities, systems of equations and inequalities, and an introduction of functions - in particular linear, exponential and quadratic. It also includes an introduction to probability and statistics.

**MAT111 - GEOMETRY** **1 YEAR** **1 CREDIT**

**PREREQUISITES: MAT110/MAT140 and/or placement exam**

This is a course which develops the tools of geometry. It includes topics of reasoning and proof, parallel and perpendicular lines, relationships of triangles - in particular congruency, similarity, and right triangles, properties of polygons and quadrilaterals, area, volume and surface area.

**MAT141 - GEOMETRY HONORS** **1 YEAR** **1 CREDIT**

**PREREQUISITES: MAT110/MAT140, teacher recommendation and/or placement exam**

This course covers those topics discussed in MAT111 listed above but is much more comprehensive in each of the topics. Therefore, this is a grade-weighted class. This class will only be offered based on a minimum of 12 students enrolled in the course.

**MAT112 - ALGEBRA II** **1 YEAR** **1 CREDIT**

**PREREQUISITES: MAT111/MAT141 and/or placement exam**

This course continues to develop the foundations of Algebra. It delves into the topics of functions and their graphs including: linear, absolute value, quadratic, polynomial, radical, exponential, logarithmic, and rational. It also includes an introduction to sequences and series, conic sections, probability and statistics, and matrices.

**MAT126 - ALGEBRA II/TRIGONOMETRY** **1 YEAR** **1 CREDIT**

**PREREQUISITES: MAT111/MAT141, teacher recommendation and/or placement exam**

This course completes the foundations of Algebra listed in MAT112 above but includes the trigonometric function and their identities. Upon completion of this class, the student with teacher recommendation may enroll directly in Calculus. This is a grade-weighted class.

**MAT128 – TRIGONOMETRY/PRE-CALCULUS** **1 YEAR** **1 CREDIT**

**PREREQUISITES: MAT111/MAT141, teacher recommendation and/or placement exam**

This course continues to cover those functions discussed in MAT112 above but is much more comprehensive in each of the topics. It also delves into the trigonometric functions, including their inverses and graphs, trigonometric identities and laws, vectors, polar coordinates, and the natural exponential and logarithmic functions. This is a grade-weighted class.

**MAT113 – PRE-CALCULUS** **1 YEAR** **1 CREDIT**

**PREREQUISITES: MAT112 and/or placement exam**

This course continues to cover those functions discussed in MAT112 but are much comprehensive in each of the topics. It also delves into the trigonometric functions, including their inverses and graphs, trigonometric identities and laws, vectors, polar coordinates, and an introduction into limits in preparation for Calculus.

**MAT114 – PRE-CALCULUS DUAL ENROLLMENT** **1 YEAR** **1 CREDIT**

**PREREQUISITES: MAT112 and ACU assessment exam**

**Fee: This course requires additional tuition payment to ACU at the beginning of the course. (See FAQ sheet.)**

This course is identical in scope and offered in the same classroom as MAT113 listed above. The only difference is that this course is offered as dual enrollment through Arizona Christian University for 3 credit hours.

**MAT115 - CALCULUS I** **1 YEAR** **1 CREDIT**

**PREREQUISITES: MAT126/MAT129/MAT142/MAT143/MAT113/MAT114 or equivalent**

This course includes topics from analytical geometry with special emphasis on inequalities and absolute value expressions, limits, continuity, the fundamental principles and formulae for differential and integral calculus, along with their applications to geometry and mechanics, the mean value theorem, and the fundamental theorem of calculus. This is a grade-weighted class.

**MAT116 - CALCULUS I DUAL ENROLLMENT (SEM)** **1 SEMESTER** **1 CREDIT**

**PREREQUISITES: MAT126/MAT129/MAT142/MAT143/MAT113/MAT114 or equivalent and CGCC assessment exam**

**Fee: This course requires additional tuition payment to CGCC at the beginning of the course. (See FAQ sheet.)**

This course is identical in scope as MAT115 listed above except it is completed in one school semester. Therefore, this is a grade-weighted class. The only difference is that this course is offered as dual enrollment through Chandler-Gilbert Community College for 4 credit hours. This class will only be offered based on a minimum of 12 students enrolled in the course.

**MAT117 - CALCULUS I DUAL ENROLLMENT (YR)** **1 YEAR** **1 CREDIT**

**PREREQUISITES: MAT126/MAT129/MAT142/MAT143/MAT113/MAT114 or equivalent and CGCC assessment exam**

**Fee: This course requires additional tuition payment to CGCC at the beginning of the course. (See FAQ sheet.)**

This course is identical in scope and offered in the same classroom as MAT115 listed above. Therefore, this is a grade-weighted class. The only difference is that this course is offered as dual enrollment through Chandler-Gilbert Community College for 4 credit hours.

**MAT118 - CALCULUS II** **1 YEAR** **1 CREDIT**

**PREREQUISITES: MAT115/MAT116/MAT117**

This course includes techniques of integration for both proper and improper integrals, with applications to the physical and social sciences, elements of analytical geometry, the analysis of sequences and series, and vector functions. This is a grade-weighted class.

**MAT119 - CALCULUS II DUAL ENROLLMENT (SEM)      1 SEMESTER      1 CREDIT**

**PREREQUISITES: MAT116/MAT117**

**Fee: This course requires additional tuition payment to CGCC at the beginning of the course. (See FAQ sheet.)**

This course is identical in scope as MAT118 listed above except it is completed in one school semester. Therefore, this is a grade-weighted class. The only difference is that this course is offered as dual enrollment through Chandler-Gilbert Community College for 4 credit hours. This class will only be offered based on a minimum of 12 students enrolled in the course.

**MAT120 - CALCULUS II DUAL ENROLLMENT (YR)      1 YEAR      1 CREDIT**

**PREREQUISITES: MAT116/MAT117**

**Fee: This course requires additional tuition payment to CGCC at the beginning of the course. (See FAQ sheet.)**

This course is identical in scope and offered in the same classroom as MAT118 listed above. Therefore, this is a grade-weighted class. The only difference is that this course is offered as dual enrollment through Chandler-Gilbert Community College for 4 credit hours.

**MAT121 - CALCULUS III      1 YEAR      1 CREDIT**

**PREREQUISITES: MAT118/MAT119/MAT120**

This course is in multivariate calculus including vectors, vector-valued functions, partial differentiation, multiple integration, and an introduction to vector fields. This is a grade-weighted class.

**MAT122 - CALCULUS III DUAL ENROLLMENT      1 YEAR      1 CREDIT**

**PREREQUISITES: MAT118/MAT119/MAT120 and CGCC assessment exam**

**Fee: This course requires additional tuition payment to CGCC at the beginning of the course. (See FAQ sheet.)**

This course is identical in scope and offered in the same classroom as MAT121 listed above. Therefore, this is a grade-weighted class. The only difference is that this course is offered as dual enrollment through Chandler-Gilbert Community College for 4 credit hours.

**MAT127 - AP CALCULUS      1 YEAR      1 CREDIT**

**PREREQUISITES: MAT126/MAT129/MAT142/MAT143/MAT113/MAT114 or equivalent**

**Fee: This course requires AP exam fee during spring semester.**

This course includes topics from analytical geometry with special emphasis on inequalities and absolute value expressions, limits, continuity, the fundamental principles and formulae for differential and integral calculus, along with their applications to geometry and mechanics, the mean value theorem, and the fundamental theorem of calculus. This course has been approved by the College Board. Secular textbooks are included in the required readings. This is a grade-weighted class. All students are required to take the AP exam before receiving credit for this class. This class will only be offered based on a minimum of 12 students enrolled in the course.

**MAT123 - COLLEGE MATHEMATICS      1 YEAR      1 CREDIT**

**PREREQUISITES: MAT112 or equivalent. Seniors Only.**

This course is designed to provide working knowledge of college-level mathematics and its applications to real-life problems. Emphasis is on understanding mathematical concepts and their applications. Topics include set theory, probability, statistics, finance, and geometry.



**PPE110 - LIFETIME SPORTS - WOMEN****PREREQUISITES: NONE****1 YEAR****1 CREDIT**

Christ-centered physical education emphasizes stewardship of the body as the temple of the Holy Spirit, teamwork, encouragement & leadership opportunities. Program goals include the development of a healthy, active lifestyle in order to prepare students to be lifetime exercisers who are “Fit to Serve”. A basic understanding and development of fitness are integrated to form a foundation against which sports and movement-related opportunities are provided for student success. Units that promote skill development in soccer, volleyball, floor hockey, basketball, mush ball, kickball, flag football, aerobics, stunts/pyramids, dance and gym games are incorporated.

**PPE111 - STRENGTH TRAINING - MEN****PREREQUISITES: NONE****1 YEAR****1 CREDIT**

This class is designed to maximize the strength/conditioning opportunities for GCHS athletes, as efforts are coordinated with coaching staff to improve training. Students will receive advanced specialized training in weight lifting, speed training, nutrition and general health. Biblical principles provide a foundation upon which health components are integrated to expand student knowledge and understanding for success in all areas of spiritual/physical/emotional/mental/social health and wellbeing.

**PPE112 - STRENGTH TRAINING - WOMEN****PREREQUISITES: NONE****1 YEAR****1 CREDIT**

This class is designed to introduce new students to the principles and benefits of strength training, while enhancing and maximizing the opportunities for our GCHS athletes to train and prepare for their sport. Sports-specific exercises and challenges will be integrated into workouts for the experienced athlete. All students will focus on proper use of weight training equipment, accurate execution, Injury prevention, flexibility, cardio respiratory fitness, muscular strength and endurance. Biblical principles provide a foundation upon which health components are integrated to expand student knowledge and understanding for success in all areas of their health and wellbeing.

**PPE115 – SKILL DEVELOPMENT – COED****PREREQUISITES: NONE****1 YEAR****1 CREDIT**

Students involved in freshman through varsity sports will have the opportunity to improve, develop and enhance specific skills required for their chosen sport(s). The class is designed to improve/develop aerobic, anaerobic levels, as well as speed and agility specifically required for a wide range of sports. Other skills such as shooting, dribbling, agility, and form running are also included.

# Science

At least one high school-level lab science course is required each year as a freshman, sophomore, and junior. Three credits of lab science are required to earn a GCHS diploma (including Biology and Chemistry).

## **BIO101 - BIOLOGY LAB**

**PREREQUISITES: NONE**

**1 YEAR**

**1 CREDIT**

This biology lab course is a college-prep biology course that provides a detailed introduction to the methods and concepts of general biology. Heavily emphasizing the vocabulary of biology, it provides the student with a strong background in the scientific method, the five-kingdom classification scheme, microscopy, biochemistry, cellular biology, molecular and mendelian genetics, evolution, dissection, and ecosystems. It also provides a complete survey of the five kingdoms in creation along with discussion of the proposed changes to the standard system of taxonomy. **This course is required for graduation.**

## **BIO102 - HUMAN ANATOMY AND PHYSIOLOGY LAB**

**PREREQUISITES: BIO101**

**1 YEAR**

**1 CREDIT**

Placement is based on teacher approval if in 10th grade.

This anatomy lab course covers both the anatomy and the physiology of the human body's 11 organ systems in detail. Class work includes fetal pig dissection and takes a trip to a cadaver lab. This course is a prerequisite for BIO103 and BIO180/181 and can be taken concurrently with CHM101 or PHY101.

## **BIO140/BIO141 – FIRST YEAR COLLEGE BIOLOGY LAB**

**PREREQUISITES: BIO102, CHM101**

**1 YEAR**

**1 CREDIT**

Placement is based on teacher approval.

This advanced biology lab course (which also introduces students to true pre-med knowledge formerly offered in the Advanced Human Anatomy and Physiology course) is designed to provide a framework for lab experience and to help the student learn how to understand problems, develop hypotheses, design and implement controlled experiments, identify independent and dependent variables, analyze data, draw conclusions, think analytically, and communicate results with appropriate data tables and graphs. First semester topics include biological chemistry, cell structure and function, energy transformation, molecular genetics, heredity, evolution, plant structure and physiology, animal structure and physiology, behavior, and ecology. Second semester includes a thematic introduction to plants and animals with emphasis on their distribution, adaptation, behavior, and ecology. Secular textbooks are included in the required readings. This is a grade-weighted class.

## **BIO142/BIO143 – FIRST YEAR COLLEGE BIOLOGY LAB DUAL ENROLLMENT**

**PREREQUISITES: BIO102, CHM101**

**1 YEAR**

**1 HS CREDIT/ 8 COLLEGE CREDITS**

Placement is based on teacher approval.

**Fee: This course requires additional tuition payment to ACU at the beginning of the course. (See FAQ sheet.)**

This course is identical in scope and offered in the same classroom as BIO140/BIO141 listed above. Therefore, this is a grade-weighted class. The only difference is that this course is offered as dual enrollment through Arizona Christian University for 8 credit hours.

### **CHM101 - CHEMISTRY LAB**

**PREREQUISITES: BIO101, (MAT112 helpful!)**

**1 YEAR**

**1 CREDIT**

This chemistry lab course gives the student a rigorous foundation in chemistry in order to prepare the student for a college-level course. The course covers significant figures, units, classification, the mole concept, stoichiometry, thermochemistry, thermodynamics, kinetics, acids and bases, redox reactions, solutions, atomic structure, Lewis structures, molecular geometry, the gas laws, and equilibrium. **This course is required for graduation.**

### **CHM102 - ADVANCED CHEMISTRY LAB**

**PREREQUISITES: CHM101**

**1 YEAR**

**1 CREDIT**

Placement is based on teacher approval.

This chemistry lab course is designed to be the second-year high school chemistry course that a student takes. The course covers detailed descriptions of limiting-reagent stoichiometry, atomic and molecular orbitals, intermolecular forces, solutions, equilibria, acids and bases, redox reactions, nuclear chemistry, and organic chemistry. This course can be taken concurrently with BIO102.

### **CHM140/CHM141 – FIRST YEAR COLLEGE CHEMISTRY LAB**

**PREREQUISITES: CHM102**

**1 YEAR**

**1 CREDIT**

Placement is based on teacher approval.

This advanced chemistry lab course covers detailed descriptions of limiting-reagent stoichiometry, atomic and molecular orbitals, intermolecular forces, solutions, equilibria, acids and bases, redox reactions, nuclear chemistry, and organic chemistry. Second semester includes solution properties, acids and bases, ionic equations, oxidation-reduction, equilibrium, kinetics, descriptive chemistry of the elements, nuclear chemistry, and an introduction to organic chemistry. Secular textbooks are included in the required readings. This course can be taken concurrently with BIO102. This is a grade-weighted class.

### **CHM142/CHM143 – FIRST YEAR COLLEGE CHEMISTRY LAB DUAL ENROLLMENT**

**PREREQUISITES: CHM102**

**1 YEAR**

**1 HS CREDIT/8 COLLEGE CREDITS**

Placement is based on teacher approval.

**Fee: This course requires additional tuition payment to ACU at the beginning of the course. (See FAQ sheet.)**

This course is identical in scope and offered in the same classroom as CHM140/CHM141 listed above.

Therefore, this is a grade-weighted class. The only difference is that this course is offered as dual enrollment through Arizona Christian University for 8 credit hours.

### **PHY101 - PHYSICS LAB**

**PREREQUISITES: CHM101, MAT111 OR MAT112**

**1 YEAR**

**1 CREDIT**

Placement is based on teacher approval.

The physics lab course is an introductory level course covering the concepts of Newton's laws, statics, dynamics, optics, DC circuits, waves, electromagnetism, two-dimensional vectors, gravity, work, and energy. Lab work is included in the course. Grade is based on daily assignments, lab work, and exams.

## **PHY140/PHY141 – FIRST YEAR COLLEGE PHYSICS LAB**

**PREREQUISITES: PHY101, MAT113**

**1 YEAR**

**1 CREDIT**

Placement is based on teacher approval.

This advanced physics lab course is the equivalent of a college freshman course and explores many of the topics in the first year of physics study, but at a greatly accelerated pace. Materials and labs for this course are 50 percent Newtonian Mechanics and 50 percent Electricity and Magnetism. Wave motion, thermal physics, optics, and special relativity are also observed. Second semester includes sound waves, electric fields, electric circuits, magnetic fields, optics, and modern physics. Secular textbooks are included in the required readings. This course can be taken concurrently with BIO102. This is a grade-weighted class.

## **PHY142/PHY143 – FIRST YEAR COLLEGE PHYSICS LAB DUAL ENROLLMENT**

**PREREQUISITES: PHY101, MAT113**

**1 YEAR**

**1 HS CREDIT/8 COLLEGE CREDITS**

Placement is based on teacher approval.

**Fee: This course requires additional tuition payment to ACU at the beginning of the course. (See FAQ sheet.)**

This course is identical in scope and offered in the same classroom as PHY140/PHY141 listed above.

Therefore, this is a grade-weighted class. The only difference is that this course is offered as dual enrollment through Arizona Christian University for 8 credit hours.

## **Social Studies**

Three credits of social studies are required to earn a GCHS diploma (including World Geography, US History, and Economics/American Government).

### **HIS109 - UNITED STATES HISTORY**

**PREREQUISITES: NONE**

**1 YEAR**

**1 CREDIT**

This course examines the major issues in American history from pre-colonial exploration and settlement to the present. It discusses the underlying causes, issues, context, and key people behind significant events in the nation's development. The course emphasizes religion's vital contribution to American heritage, the Constitution, and the framework and operation of our government systems. It uses a variety of media, reference works, and supplemental reading assignments to evaluate both American foundational events, as well as the country's position, role, and influence in the modern-world economy and culture. **This course is required for graduation.**

### **HIS110A - ECONOMICS**

**PREREQUISITES: NONE**

**SPRING SEMESTER ONLY**

**0.5 CREDIT**

This course surveys basic economic principles and how these principles work in business firms, financial markets, and government. Student teams participate in the Stock Market simulation challenge sponsored by the Arizona Council on Economic Education, and the Junior Achievement Exploring Economics and Stock Market Challenge programs. The course stresses free market ideals and Christian economic values throughout. **This course is required for graduation.**

## **HIS110B - AMERICAN GOVERNMENT**

**PREREQUISITES: NONE**

**FALL SEMESTER ONLY**

**0.5 CREDIT**

This course traces the foundational ideas, philosophies, religious doctrines, and cultural events that culminated in a historically unique governmental proposition – the U.S. Constitution. It underscores the responsibilities of Christian citizenship within society. The course emphasizes Biblical governmental principles, the functions and interactions of the branches and levels, political parties, elections, pressure groups, citizenship, economics, and current events. The student attains a thorough, detailed understanding of the original intent of the framers for our government and contrasts it to modern interpretation and application. **This course is required for graduation.**

## **HIS111 - WORLD GEOGRAPHY AND CULTURES**

**PREREQUISITES: NONE**

**1 YEAR**

**1 CREDIT**

This course is designed to provide a solid foundation in world geography. When completed, the student will be able to understand how the geography and climate of an area affects its culture, read thematic maps, research information about any nation on earth, draw detailed maps of the world and continents/regions from memory, and gain knowledge of the complexity, precision, and beauty of the systems God created to sustain life on this earth, as well as advances in scientific discovery and understanding of industrial development on the ecology. The course utilizes a variety of media and reference sources. **This course is required for graduation.**

## **HIS112 - CURRENT EVENTS (ELECTIVE)**

**PREREQUISITES: NONE**

**1 SEMESTER**

**0.5 CREDIT**

This class is for juniors and seniors only. Through the use of daily newspapers, news magazines, the internet, and supplemental reading, students will do in-depth research and analyses to develop, articulate, and defend a Christian world-view of current events. Format will include group discussion, debate, quarterly essay, and Keynote presentations. Students may take up to two semesters of the course.

## **HIS105 - AP® UNITED STATES HISTORY (ELECTIVE)**

**PREREQUISITES: HIS109**

**1 YEAR**

**1 CREDIT**

Placement is based on teacher approval.

**Fee: This course requires AP exam fee during spring semester.**

AP United States History is a rigorous, college-equivalent course certified by the College Board. The objectives of the course are two-fold: (1) to provide the student with exposure to the events, implications, and interpretation of American history at a significantly deeper extent than a normal college-prep high school course and (2) to prepare the student to score at a 4/5 level on the College Board's AP US History exam. All students are required to take the AP exam in May in order to receive credit for the class. This is a grade-weighted class.

The course is designed for individual, independent study with an intensive reading and research workload. Students are required to keep a rigorous reading pace of 75-100 pages per week. Opportunity is given for students to prepare for the AP exam with both online practice tests and practice essay writing, including document-based assignments. Weekly assessments measuring progress encourage continuous review. Students participate in a Discussion Board process where they are required to (1) respond to document-based questions of at least five sources in essay form and (2) critique responses submitted by their student peers.

Each quarter, AP US History students are required to present a 15-minute lecture on a teacher-assigned subject from different historical periods. Incorporated into this assignment is a student-created assessment administered to the audience at the conclusion of the presentation.

AP US History students participate in a spring trip to the nation's capital to have first-hand experience visiting Williamsburg, the Capitol Building, the White House, Arlington National Cemetery, the Library of Congress, and the National Archives Museum. The trip is guided and planned by students as they showcase their knowledge of America's history.

### **HIS115 – SPEECH AND DEBATE (ELECTIVE)**

**PREREQUISITES: NONE**

**1 YEAR**

**1 CREDIT**

The basic skills needed to construct and deliver a variety of speeches to a live audience are introduced in this class. Students will give speeches to inform, to persuade, entertain, demonstrate, motivate, and share the Gospel. They will learn how to develop and deliver persuasive arguments using various forms of support such as statistics, quotes from experts, analogy, and personal examples as well as appeals to logic and emotion. A one-year commitment is required.

### **POS105 – STUDENT GOVERNMENT (ELECTIVE)**

**PREREQUISITES: ELECTED TO OFFICE**

**1 YEAR**

**1 CREDIT**

Elected council members: 2 Freshman representatives, 2 Sophomore representatives, 2 Junior representatives, 2 Senior representatives, Student Body President (Senior), Vice President (Junior), and Secretary (Sophomore, Junior, or Senior)

The Gilbert Christian High School Student Council consists of elected students representing their class to promote leadership and student participation through school activities conducted on campus. This class teaches the fundamentals of student government, which includes learning about running special events, campaigns, and voting, including marketing and funding for such events. Students also learn the operations of a constitution, term of office, bylaws, etc. In addition, students focus on the different characteristics of God and how they can be applied in student council and everyday life, as well as having a servant heart for others. Students also serve as mentors for new students at Gilbert Christian High School.

## **Spanish**

Two credits are required in ninth and tenth grades. Students are encouraged to take four years in high school.

### **SPA109- ESPANOL I**

**PREREQUISITES: NONE**

**1 YEAR**

**1 CREDIT**

This course continues the development of the four language skills: listening, speaking, reading, and writing. At this level, the student expands his/her capacity to express himself/herself and to understand spoken and written communication. Special emphasis is placed on learning the grammar and vocabulary of the language.

### **SPA110- ESPANOL II**

**PREREQUISITES: SPA109**

**1 YEAR**

**1 CREDIT**

In this course, the student consolidates and practices previously acquired language materials and gains more control of the four skills of listening, reading, speaking, and writing. Grammatical structures are reviewed and practiced extensively. Readings include Bible passages, newspapers, and simple literary works.

**SPA111- ESPANOL III (ELECTIVE)**

**PREREQUISITES: SPA110**

**1 YEAR**

**1 CREDIT**

This course covers a variety of topics, including the history and culture of Spain and Latin America, culture, and literature. Expansion of vocabulary and conversational practice are stressed through frequent Bible reading, class discussion, and short compositions. Oral daily practice is required. This is a grade-weighted class.

**SPA112- ESPANOL IV (ELECTIVE)**

**PREREQUISITES: SPA111**

**1 YEAR**

**1 CREDIT**

Through the reading of media, literary, and biblical selections, students increase their vocabulary and gain fluency in all linguistic skills. The core of this course is conversational time. Students will engage in oral presentations and oral translation. Spanish immersion is required. This is a grade-weighted class.

# Gilbert Christian Schools Governing Policy



## Topic: Weighted Grades Courses

Weighted grades will be applied to the courses listed below beginning in the 2009-10 school year (unless otherwise noted).

Weighted courses transferred from accredited high schools will be awarded weighted credit only if Gilbert Christian Schools also weights that class. **Weighted grades are only granted when the student completes the entire course; otherwise, no weighted grade point value is applied.**

Courses taken at universities, community colleges, correspondence schools, and other institutions that are not accredited high schools will not receive an additional grade point weight. It is not assumed that a community college or university course is of greater rigor and thus should carry weighted credit.

The following is a list of weighted courses currently recognized by Gilbert Christian Schools.

<b>Course Number</b>	<b>Course Title</b>
ENG 209	9 <sup>th</sup> Grade Honors English
ENG 210	10 <sup>th</sup> Grade Honors English
ENG 211	11 <sup>th</sup> Grade Honors English
ENG 101/102	First-Year College Composition Dual Enrollment
MAT 115	Calculus I (starting 2010-11)
MAT 116	Calculus I Dual Enrollment (semester)
MAT 117	Calculus I Dual Enrollment (year)
MAT 118	Calculus II
MAT 119	Calculus II Dual Enrollment (semester)
MAT 120	Calculus II Dual Enrollment (year)
MAT 121	Calculus III
MAT 122	Calculus III Dual Enrollment (year)
MAT 126	Algebra II/Trigonometry (starting 2010-11)
MAT 127	AP Calculus (starting 2010-11)
MAT 128	Trigonometry/Precalculus (starting 2010-11)
MAT 141	Geometry Honors
STP 101	Statistics (starting 2010-11)
STP 102	Statistics Dual Enrollment (year) (starting 2010-11)
STP 103	Statistics Dual Enrollment (semester) (starting 2010-11)
BIO 140/141	First-Year College Biology Lab
BIO 142/143	First-Year College Biology Lab Dual Enrollment
CHM 140/141	First-Year College Chemistry Lab
CHM 142/143	First-Year College Chemistry Lab Dual Enrollment
PHY 140/141	First-Year College Physics Lab
PHY 142/143	First-Year College Physics Lab Dual Enrollment
HIS 105	AP United States History
SPA 111	Spanish 3
SPA 112	Spanish 4

### Weighted Quarter Grades:

A+	5.3
A	5.0
A-	4.7
B+	4.3
B	4.0
B-	3.7
C+	3.3
C	3.0

### Weighted Semester Grades:

A	5.0
B	4.0
C	3.0

Adopted: December 17, 2009

Revised: September 6, 2011