



# **Grace Brethren Schools**

## **Senior High School Curriculum Guide 2019-2020**

# BIBLE

**Graduation Requirements: Enrolled in a Bible Course every Semester**

## **9<sup>TH</sup> GRADE BIBLE:**

### **BIB109 - EARLY HEBREW HISTORY**

UC APPROVED: “g” Elective

PRE-REQUISITES OR CO-REQUISITES: None

COURSE CONTENT: A survey of each book of the Old Testament will be undertaken. Students will learn the theme for each book, the major figures and the geography of the Old Testament. In the process they will discuss how God revealed Himself to men, how the Israelites fared in their relationship with God, and how individual men and women lived in relationship with God.

## **10TH GRADE BIBLE:**

### **BIB110 - NEW TESTAMENT SURVEY**

PRE-REQUISITES OR CO-REQUISITES: None

COURSE CONTENT: The year begins with a study of the synoptic Gospels and Jesus’ discourse at the Last Supper in the book of John. While studying Romans, a theological platform will be built which will frame the examination of the rest of the New Testament. Students will survey early church history in Acts and learn the location and background of the key cities of the Epistles they will be studying. Students will be encouraged to apply biblical truths that are reiterated throughout Paul’s writings as well as those of the other New Testament authors.

## **11<sup>TH</sup> GRADE BIBLE:**

### **BIB111 - FOUNDATIONS OF CHRISTIAN THOUGHT I**

PRE-REQUISITES OR CO-REQUISITES: None

COURSE CONTENT: Students will have a general understanding of God and His attributes as well as how God reveals Himself in general and special revelation. An emphasis will be placed on arguments for the existence of God and for the reliability of Scripture. After understanding the trustworthiness of Scripture, students will learn how to interpret the Bible the way it was meant to be read. Students will also study God’s special creation, humans. Our students will learn a biblical case as well as a logical case for why human lives are sacred regardless of age, gender or abilities.

## **12<sup>TH</sup> GRADE BIBLE:**

### **BIB112 - FOUNDATIONS OF CHRISTIAN THOUGHT 2**

PRE-REQUISITES OR CO-REQUISITES: None

COURSE CONTENT: This course continues the previous year’s model and students will discuss spiritual warfare, dating and man’s sinfulness. They will then learn who Jesus is as the perfect God-Man and discuss salvation and the many aspects of Jesus’ work for us. The responsibility for members of Christ’s body to the church will also be highlighted and students will contrast biblical Christianity with other religions.

## **BIB113 - BEHAVIORAL STUDIES A/B**

UC APPROVED: "g" Elective

\*\*Behavioral Studies B is a UC approved elective (not Behavioral Studies A).

GRADE LEVEL AT WHICH COURSE IS OFFERED: 11<sup>th</sup> & 12<sup>th</sup> grades

PRE-REQUISITES OR CO-REQUISITES: Behavioral Studies A is a pre-requisite for Behavioral Studies B.

COURSE CONTENT: Course Content: This course will seek to teach the concepts of behavioral science from a biblical perspective. At the conclusion of this course, each student will be able to articulate the foundational concepts of psychology (Intro to Psychology: 2<sup>nd</sup> Semester) and its contrast to Scripture (Intro to Biblical Counseling 1<sup>st</sup> Semester). God's Word is the ultimate rule and authority in the study of human behavior and the study of the human soul. The concepts of Biblical Counseling will be taught throughout this course and will be used to help students gain discernment as they study a secular field that too often, in our world supersedes the authority of God's Word. Scripture must be the ultimate authority in a believer's life and this truth will not be compromised as this class is taught. This course is an elective and does not replace the 11<sup>th</sup> and 12<sup>th</sup> grade Bible required coursework.

## **BIB114 – BIBLE FOUNDATIONS**

GRADE LEVEL AT WHICH COURSE IS OFFERED: 9<sup>th</sup> - 12<sup>th</sup> grades

PRE-REQUISITES OR CO-REQUISITES: Students for this class must be assigned and approved by administration.

COURSE CONTENT: Bible Foundations is designed to introduce students to the basic principles of knowing God and the Bible. Foundations will equip students with a solid biblical underpinning allowing them to be successfully integrated into the remainder of GBHS Bible classes; grades 9<sup>th</sup> – 12<sup>th</sup>. Bible Foundations will cover the names, main theme, key events for each of the 66 books of the Bible, the Gospel, and basic elements the GBHS statement of faith.

# COMPUTER SCIENCE

## **COMPED101 - COMPUTER GRAPHICS**

GRADE LEVEL AT WHICH COURSE IS OFFERED: 9<sup>th</sup> - 12<sup>th</sup> grade

PRE-REQUISITES OR CO-REQUISITES: Students must be adept at Microsoft applications.

COURSE CONTENT: This course seeks to prepare the student for entrance into a world of visual communication. Students will learn the basics of essential programs that have become the industry standard for design. Adobe's Photoshop and Illustrator will become a tool of communication as they learn to wield their nuances. The course will engage in the production of graphic artwork within the context of its use in the professional environment.

## **COMPED201AP – AP COMPUTER SCIENCE PRINCIPLES**

GRADE LEVEL AT WHICH COURSE IS OFFERED: 9<sup>th</sup> - 12<sup>th</sup> grades

UC APPROVED: “g” Elective (Pending)

PRE-REQUISITES: C or better in Algebra I

COURSE CONTENT: AP Computer Science Principles introduces students to the foundational concepts of computer science and challenges them to explore how computing and technology can impact the world. With a unique focus on creative problem solving and real-world applications, working with data, understanding the Internet, cybersecurity, and programming. AP Computer Science Principles prepares students for college and career.

# ENGLISH

**Graduation Requirements: (9 Semesters, 45 credits)**  
**Literature and Writing Classes (8 Semesters, 40 credits)**  
**Critical Thinking and Composition (1 Semester, 5 credits)**

## **ENG109 - FUNDAMENTALS OF LITERATURE**

UC APPROVED: “b” English

GRADE LEVEL AT WHICH THE COURSE IS OFFERED: 9<sup>th</sup> grade

PRE-REQUISITES OR CO-REQUISITES: None

COURSE CONTENT: Literature for this class includes the structure of prose and poetry, conflict, characterization, theme and moral, point of view, and drama. The Excellence in Writing program reviews and builds upon the principles of grammar and composition learned in junior high with an emphasis on content. Classes include lessons in literature fundamentals along with vocabulary lessons and various writing assignments.

## **ENG109H - FUNDAMENTALS OF LITERATURE (HONORS)**

UC APPROVED: “b” English

GRADE LEVEL AT WHICH THE COURSE IS OFFERED: 9<sup>th</sup> grade

PRE-REQUISITES OR CO-REQUISITES: A *B* or better in the previous year of Honors English or an *A* or better in 8<sup>th</sup> grade English and/or teacher/departments chair approval.

COURSE CONTENT: Class literature includes the structure of prose and poetry, conflict, characterization, theme and moral, point of view, and drama. The Excellence in Writing program builds upon the principles of grammar and composition learned in junior high with an emphasis on content. Students are expected to achieve a mastery of writing on a ninth grade level. Classes include lessons in literature fundamentals along with vocabulary lessons and various writing assignments.

## **ENG110 - AMERICAN LITERATURE**

UC APPROVED: “b” English

GRADE LEVEL AT WHICH THE COURSE IS OFFERED: 10<sup>th</sup> grade

PRE-REQUISITES OR CO-REQUISITES: None

COURSE CONTENT: This course includes the study of American literature from the 1600s to the 20<sup>th</sup> century. This survey is studied with an understanding of the times and circumstances of each period as well how each work reflects its author. Elements of prose and poetry learned in the 9<sup>th</sup> grade are reviewed and used in evaluating each work along with additional literary devices introduced by the text. Classes include lessons on American authors along with vocabulary lessons and various writing assignments.

## **ENG110H - AMERICAN LITERATURE (HONORS)**

UC APPROVED: “b” English

GRADE LEVEL AT WHICH THE COURSE IS OFFERED: 10<sup>th</sup> grade

PRE-REQUISITES OR CO-REQUISITES: A *B* or better in the previous year of Honors English or an *A* or better in 9<sup>th</sup> grade English and/or teacher/department chair approval.

COURSE CONTENT: This class studies American literature from the 1600s to the 20<sup>th</sup> century. This survey is studied with an understanding of the times and circumstances of each period as well how each work reflects its author. Elements of prose and poetry learned in the 9<sup>th</sup> grade are mastered and used in evaluating each work along with additional literary devices introduced by the text. Argumentative writing is introduced and developed. Classes include lessons on American authors along with vocabulary lessons, periodic AP test preparation, and various writing assignments.

## **ENG112 - BRITISH LITERATURE**

UC APPROVED: “b” English

GRADE LEVEL AT WHICH THE COURSE IS OFFERED: 11<sup>th</sup> grade

PRE-REQUISITES OR CO-REQUISITES: None

COURSE CONTENT: The literature for this class includes the study of British literature from the Anglo Saxon period to the 20<sup>th</sup> century. This survey is studied with an understanding of the times and circumstances of each period as well how each work reflects its author. The curriculum incorporates literature and vocabulary study into the development of writing skills as well as incorporating formal grammar and composition as a means of developing style. This course stresses development beyond the five paragraph essay into individually thought out arguments and persuasive essays in response to thorough analysis of advanced literary texts. Classes are comprised of lessons on British writers along with vocabulary lessons and various writing assignments.

## **ENG112 - BRITISH LITERATURE (HONORS)**

UC APPROVED: “b” English

GRADE LEVEL AT WHICH THE COURSE IS OFFERED: 11<sup>th</sup> grade

PRE-REQUISITES OR CO-REQUISITES: A *B* or better in the previous year of Honors English or an *A* or better in 10<sup>th</sup> grade English and/or teacher/department chair approval.

COURSE CONTENT: Class studies include an in-depth study of British literature from the Anglo Saxon period to the 20<sup>th</sup> century. This survey is studied with an understanding of the times and circumstances of each period as well how each work reflects its author. The curriculum incorporates literature and vocabulary study into the development of writing skills as well as incorporating formal grammar and composition as a means of developing style. This course stresses development beyond the five paragraph essay into individually thought out arguments and persuasive essays in response to thorough analysis of advanced literary texts. Classes are comprised of lessons on British writers along with vocabulary lessons and various writing assignments which include various essays.

## **ENG115 – MAJOR THEMES IN LITERATURE**

UC APPROVED: “b” English

GRADE LEVEL AT WHICH THE COURSE IS OFFERED: 12<sup>th</sup> grade

PRE-REQUISITES OR CO-REQUISITES: None

COURSE CONTENT: This class will include novels, short stories, essays and poems from a variety of major genres which display major themes in literature. Themes and genres will include Redemption in Literature, Portrayals of Good/Evil, The Tragic Hero, Multiculturalism and Modernism/Postmodernism. The purpose of this course is to build a clear understanding of how these themes and genres appear in literature, examining how they reflect major aspects of the human condition.

## **ENG112AP - AP LANGUAGE AND COMPOSITION**

UC APPROVED: “b” English

GRADE LEVEL AT WHICH THE COURSE IS OFFERED: 11<sup>th</sup> - 12<sup>th</sup> grade

PRE-REQUISITES OR CO-REQUISITES: 11<sup>th</sup> or 12<sup>th</sup> grade, a *B* or better in the previous year of Honors or AP English or an *A* or better in the previous year of English and/or teacher/department chair approval.

COURSE CONTENT: The class is the equivalent of a college composition course emphasizing expository, analytical, and argumentative writing that forms the basis of academic and professional communication as well as the personal and reflective writing. This is in response to both selected readings and personal experience and observation. Classes include daily lessons on weekly vocabulary lessons, periodic AP test preparation, daily reading, daily writing in response to the readings, and various writing assignments.

## **ENG114AP - AP LITERATURE AND COMPOSITION**

UC APPROVED: “b” English

GRADE LEVEL AT WHICH THE COURSE IS OFFERED: 12<sup>th</sup> grade

PRE-REQUISITES OR CO-REQUISITES: 12<sup>th</sup> grade, a *B* or better in the previous year of AP English or an *A* or better in the previous year of English and/or teacher/department chair approval.

COURSE CONTENT: In this course, students will participate in the close reading of a variety of literary texts throughout the course. Texts range in genre from poetry, short fiction, drama and novels and span from the 1700's to modern day. The goal is to expose students to a variety of texts including both American and British literature. As they read, students will participate in class discussion and various types of writing activities about the literature as well as other class activities and projects that assist in their understanding of the text as a work of literature. The main objective is to prepare students for taking the AP Literature and Composition test at the end of the year as well as to prepare students for advanced college work. They are expected to master the various elements of literature learned in ninth and tenth grade reflecting content, structure and style in order to evaluate stories and poems. At this level, they are held to a more collegiate level standard in their knowledge and use of grammar, vocabulary and literature as learned in the Excellence in Writing.

## **ENG104 - CRITICAL THINKING AND COMPOSITION (1 Semester)**

UC APPROVED: "b" English

GRADE LEVEL AT WHICH THE COURSE IS OFFERED: 11<sup>th</sup> & 12<sup>th</sup> grades

PRE-REQUISITES OR CO-REQUISITES: None

COURSE CONTENT: Students will read and critically evaluate collegiate level material from a variety of sources. Students will be able to distinguish between fact, opinion, belief and prejudice, identify formal and informal logical fallacies, practice research and develop their own reading, writing, and thinking process.

## **ENG113 – JOURNALISM**

UC APPROVED: "g" Elective

GRADE LEVEL AT WHICH THE COURSE IS OFFERED: 9<sup>th</sup> -12<sup>th</sup> grades

PRE-REQUISITES OR CO-REQUISITES: None

COURSE CONTENT: This class includes discussion of strategies for analyzing audience including choosing, developing, organizing and formatting content as accessibly as possible. Course assignments will include writing articles for the school paper, writing weekly 'Current Events' evaluations of news articles, writing newspaper columns about various topics, peer evaluation and submitting story ideas.

## **ENG119 – YEARBOOK**

GRADE LEVEL(S) AT WHICH COURSE IS OFFERED: 8<sup>th</sup> -12<sup>th</sup> grades

PRE-REQUISITES OR CO-REQUISITES: None

COURSE CONTENT: Students are taught the elements of InDesign using the Herff Jones curriculum manual. InDesign is an industry standard lay-out, desk top publishing tool. Students design and utilize templates to complete spreads made up of texts, photos, and graphic designs. Students learn basic photography skills necessary to be able to take candid photos of school sporting events and activities. Interviewing techniques are introduced so students are able to accurately gather information for publication. Each student has equal opportunity and responsibility as part of the yearbook staff to attend specifically assigned GBS activities or sporting events after school hours to take photos and gather information vital to the successful completion of their yearbook pages. The annual publication, the GBHS Yearbook, showcases all the skills that the students have practiced and learned throughout the year. It is distributed to all students at the end of each school year.



# FOREIGN LANGUAGE DEPARTMENT

Graduation Requirement: 4 Semesters (20 Credits)

6 Semesters recommended

## FLD101 - SPANISH I

UC APPROVED: “e” Language other than English

GRADE LEVEL(S) at which course is offered: 9<sup>th</sup> – 12<sup>th</sup> grade

PRE-REQUISITES OR CO-REQUISITES: None

COURSE CONTENT: Students will recognize and employ a basic written and spoken vocabulary of the Spanish language as well as be able to perform grammatical functions. Students will learn conjugation of regular verbs in present, present progressive, definite and indefinite articles, noun-adjective agreement, conjugation of selected irregular verbs, formation of negative sentences, possessive adjectives, and compare and contrast Hispanic and USA cultures and customs. Students will be using a textbook and readers to acquire language. Most classroom interactions are in Spanish with the exception of grammatical explanations.

## FLD102 - SPANISH II

UC APPROVED: “e” Language other than English

GRADE LEVEL(S) at which course is offered: 9<sup>th</sup> – 12<sup>th</sup> grade

PRE-REQUISITES OR CO-REQUISITES: Spanish I with a C- or higher (both semesters).

COURSE CONTENT: This course includes review of correct conjugation of regular and irregular verbs; conjugation of regular and irregular verbs in present, preterit and imperfect; formation of present progressive tense; formal and informal commands and use of direct and indirect object pronouns, and reflexive verbs. The grammar studied in the classroom will enable students to communicate beyond that learned in Spanish I. A textbook and various Spanish II level readers are used to acquire language. All classroom interactions are in Spanish with the exception of grammatical explanations.

## FLD103 - SPANISH III

UC APPROVED: “e” Language other than English

GRADE LEVEL(S) at which course is offered: 10<sup>th</sup> – 12<sup>th</sup> grade

PRE-REQUISITES OR CO-REQUISITES: Spanish II with a grade of C- or better (both semesters).

COURSE CONTENT: This course includes a review of correct conjugation of regular and irregular verbs in the present, preterit, imperfect, future and conditional tenses, correct use of commands, formal and informal, correct use of reflexive verbs, direct and indirect object pronouns and proper use of *por* vs. *para* and *pero* vs. *sino*. Novel reading, essay writing, dramatization and role playing will also be employed. All classroom interaction is in Spanish.

## **FLD104 - SPANISH IV**

UC APPROVED: “e” Language other than English

GRADE LEVEL(S) AT WHICH COURSE IS OFFERED: 11<sup>th</sup> – 12<sup>th</sup> grade

PRE-REQUISITES OR CO-REQUISITES: Spanish III with a grade of *B-* or better or teacher/department approval.

COURSE CONTENT: Classroom instruction and interaction are solely in Spanish and will include extensive oral and written composition. Students will be required to read the Bible, literature, periodicals and newspaper in Spanish for comprehension. Participation in dramatization, role playing, speeches, games, and oral reports are required.

## **FLD105AP – AP SPANISH LANGUAGE**

UC APPROVED: “e” Language other than English

GRADE LEVEL(S) AT WHICH COURSE IS OFFERED: 12<sup>th</sup> grade

PRE-REQUISITES OR CO-REQUISITES: Spanish IV with a grade of *B+* or better and/or teacher/department chair approval.

COURSE CONTENT: Classroom instruction and interaction are solely in Spanish and will include extensive oral and written composition. Students will be required to read the Bible, literature, periodicals and newspaper in Spanish for comprehension. Participation in dramatization, role playing, speeches, games, and oral reports are required.

# MATHEMATICS

**Graduation Requirement: 6 Semesters (30 credits)**

**Must complete through Algebra II**

## **MATH111 - ALGEBRA I**

UC APPROVED: “c” Mathematics

GRADE LEVEL(S) AT WHICH COURSE IS OFFERED: 8<sup>th</sup> & 9<sup>th</sup> grades

PRE-REQUISITES OR CO-REQUISITES: Placement testing, previous math grades and previous teacher recommendation

COURSE CONTENT: Students will be introduced to and become adept in using algebraic procedures and apply these concepts in mathematical problem solving. Concept recognition and skill application of algebraic properties and techniques will allow students to solve problems at a more abstract, higher cognitive level than simple arithmetic procedures used before. Students will be prepared for Geometry, Algebra II, and computer programming/computer applications that are predicated on the knowledge of algebra.

## **MATH111H - HONORS ALGEBRA I**

UC APPROVED: “c” Mathematics

GRADE LEVEL(S) AT WHICH COURSE IS OFFERED: 8<sup>th</sup> & 9<sup>th</sup> grades

PRE-REQUISITES OR CO-REQUISITES: Placement testing, a *B* or better in Pre-Algebra and teacher recommendation.

COURSE CONTENT: Students will be enriched in and become adept in using algebraic procedures and apply these concepts in mathematical problem solving and projects. Concept recognition and skill application of algebraic properties and techniques will allow students to solve problems at a more abstract, higher cognitive level than simple arithmetic procedures used before. Students will be prepared for Honors Geometry, Honors Algebra II, and computer programming/computer applications re are predicated on the knowledge of algebra by moving directly to understanding various functions, and have a greater level of mastery in graphing functions.

## **MATH113 - GEOMETRY**

UC APPROVED: “c” Mathematics

GRADE LEVEL(S) AT WHICH COURSE IS OFFERED: 9<sup>th</sup> & 10<sup>th</sup> grades

PRE-REQUISITES OR CO-REQUISITES: Algebra I with a *C-* or higher (both semesters).

COURSE CONTENT: The study of Geometry includes points, lines, planes, angles, parallel lines and planes, congruent triangles and using congruent triangles in proofs, similar polygons, right triangles, the trigonometric functions (including the Law of Sines and the Law of Cosines), the Pythagorean Theorem, circles, constructions (if time permits) and loci, areas of plane figures, area and volumes of solids, coordinate geometry, and a brief look at transformations.

## **MATH113H – HONORS GEOMETRY**

UC APPROVED: “c” Mathematics

GRADE LEVEL(S) AT WHICH COURSE IS OFFERED: 9<sup>th</sup> & 10<sup>th</sup> grades

PRE-REQUISITES OR CO-REQUISITES: An *A* or better in and a *B* or better in Honors Algebra I, and/or teacher/department chair approval.

COURSE CONTENT: The study of geometry includes points, lines, planes and angles, deductive and inductive reasoning, parallel and perpendicular lines, geometric ideas and principles, congruent and similar polygons, right triangle trigonometry, and circles. Students will complete geometric proofs and rehearse algebra skills in challenging problems. Students will relate and apply geometric concepts to various other areas of mathematics such as algebra, logic, probability, and constructions.

## **MATH112 - ALGEBRA II**

UC APPROVED: “c” Mathematics

GRADE LEVEL(S) AT WHICH COURSE IS OFFERED: 9<sup>th</sup> – 11<sup>th</sup> grades

PRE-REQUISITES OR CO-REQUISITES: Geometry with a *C-* or higher (both semesters).

COURSE CONTENT: This course includes the following: a review of basic algebra, linear equations, systems of linear equations and inequalities, matrices and determinants, quadratic equations and parabolas, functions, powers, roots and radicals, exponential and logarithmic functions, polynomials and polynomial functions, rational functions, quadratic relations, sequences and series, trigonometric graphs, identities and equations, and probability and statistics.

## **MATH112H – HONORS ALGEBRA II/TRIGONOMETRY**

UC APPROVED: “c” Mathematics

GRADE LEVEL(S) AT WHICH COURSE IS OFFERED: 9<sup>th</sup> – 11<sup>th</sup> grades

PRE-REQUISITES OR CO-REQUISITES: An *A* or better in Algebra I or a *B* or better in Honors Algebra I, and/or teacher/department chair approval. Summer enhancement work is required for this class.

COURSE CONTENT: This course includes the following: Linear, quadratic and polynomial equations and their graphs, inequalities, polynomials, rational and exponential and logarithmic expressions and equations, irrational and complex numbers, conic sections, sequences and series, triangle trigonometry, trigonometric graphs, identities, equations, and applications. Graphing calculator required.

## **MATH122 – TRIGONOMETRY/DISCRETE MATH**

UC APPROVED: “c” Mathematics

GRADE LEVEL(S) AT WHICH COURSE IS OFFERED: 11<sup>th</sup> – 12<sup>th</sup> grades

PRE-REQUISITES OR CO-REQUISITES: Algebra II with a C- or higher (both semesters).

COURSE CONTENT: The course begins with the study of trigonometry, including, but not limited to: angles and similar triangles, trigonometric functions, Pythagorean Identities and the quotient identities, Right Triangle trigonometry, the Law of Sines (including the Ambiguous Case), and the Law of Cosines. Problem solving in each of the cases is stressed. The remainder of the course will focus on topics from Discrete Math, including Problem solving and critical thinking, Set Theory, Logic, Number Representation and Calculation, Number Theory, and the Real Number System. We will also review some of the basics from algebra and geometry. Additional topics of interest are Consumer Mathematics and Financial Management, Measurement, Counting Methods and Probability Theory, Statistics (basic). As time permits: Mathematical Systems, Voting and Apportionment, and Graph Theory.

## **MATH114 - PRE-CALCULUS**

UC APPROVED: “c” Mathematics

GRADE LEVEL(S) AT WHICH COURSE IS OFFERED: 10<sup>th</sup> – 12<sup>th</sup> grades

PRE-REQUISITES OR CO-REQUISITES: Algebra II with a C- or higher (both semesters).

COURSE CONTENT: In this class, students will gain competency in functions and their graphs, polynomials, exponential and logarithmic functions, solving linear, polynomial, rational, exponential, logarithmic and trigonometric equations, complex numbers, trigonometry, conic sections, analytic geometry, data modeling, and regression curves. Students will apply the mathematical concepts learned while solving problems over a wide range of disciplines such as physics, chemistry, the social sciences, biology, business, and art.

## **MATH114H - PRE-CALCULUS (HONORS)**

UC APPROVED: “c” Mathematics

GRADE LEVEL(S) AT WHICH COURSE IS OFFERED: 10<sup>th</sup> – 12<sup>th</sup> grades

PRE-REQUISITES OR CO-REQUISITES: An A or better in Algebra II and/or teacher/department chair approval.

COURSE CONTENT: This course is a college preparatory math course. The pace of the course is more rapid than the regular Pre-Calculus course. Trigonometry, math analysis and some of the basics from calculus are included in the course. If taken and passed by an 11<sup>th</sup> grade student, that student would be allowed to take AP Calculus BC during their senior year.

## **MATH116AP – AP CALCULUS AB**

UC APPROVED: “c” Mathematics

GRADE LEVEL(S) AT WHICH COURSE IS OFFERED: 11<sup>th</sup> – 12<sup>th</sup> grades

PRE-REQUISITES OR CO-REQUISITES: A grade of *B* or better in Honors Pre-Calculus or an *A* or better in Pre-Calculus and/or teacher/department chair approval.

COURSE CONTENT: The course starts with a review of the basic concepts necessary for the study of calculus. The limit is then introduced along with strategies for finding limits such as the rationalization technique and the Squeeze Theorem. Differentiation and integration along with their applications are studied in depth including integration by parts and simple partial fractions. We also study the area between two curves and the solids of revolution using the disc, washer, and shell methods of evaluation. Parametric, polar, and vector functions are studied including their derivatives. Improper integrals, numerical solution of differential equations using Euler’s method, L’Hopital’s Rule including its use in determining limits and convergence of improper integrals and series. The final topics of study include polynomial approximations and series, the Taylor polynomial approximation and the general Taylor and the Maclaurin series are studied. Functions defined by power series and radius and interval of convergence of power series are included. The final topics are Lagrange error bound for Taylor polynomials.

## **MATH123AP – AP CALCULUS BC**

UC APPROVAL: “c” Mathematics

GRADE LEVEL(S) AT WHICH COURSE IS OFFERED: 12<sup>th</sup> grade

PRE-REQUISITES OR CO-REQUISITES: Advanced Placement Calculus AB and teacher/department chair approval.

COURSE CONTENT: Students explore in depth various integration techniques, work, infinite series (convergent, divergent, power, Maclaurin and Taylor series), parametric equations and polar coordinates. Other topics could include centroids, moments of inertia, vectors and surfaces, vector-valued functions, an introduction to partial differential equations, and the Calculus of Variations.

## **MATH117 – STATISTICS**

UC APPROVED: “c” Mathematics

GRADE LEVEL(S) AT WHICH COURSE IS OFFERED: 11<sup>th</sup> – 12<sup>th</sup> grades

PRE-REQUISITES OR CO-REQUISITES: Algebra II with a *C-* or higher (both semesters).

COURSE CONTENT: In this course, students will explore data by observing patterns and departures from patterns, planning a study and deciding what and how to measure, anticipating patterns by producing models using probability and simulation and statistical inference by confirming models.

## **MATH117AP – AP STATISTICS**

UC APPROVED: “c” Mathematics

GRADE LEVEL(S) AT WHICH COURSE IS OFFERED: 11<sup>th</sup> – 12<sup>th</sup> grades

PRE-REQUISITES OR CO-REQUISITES: A grade of *B* or better in Honors Algebra II, an *A* in Algebra II and/or teacher/department chair approval.

COURSE CONTENT: In this course, students will explore data by observing patterns and departures from patterns, planning a study and deciding what and how to measure, anticipating patterns by producing models using probability and simulation, and statistical inference by confirming models. The course’s tangible objective is to prepare the student for the Advanced Placement examination in May.

# **PHYSICAL EDUCATION**

## **Graduation Requirement: 2 Semesters (10 credits)**

**\*\*Note: This graduation requirement may be waived if students participate in two seasons of any sport in their years at Grace. Other waivers will be considered on a case-by-case basis.**

### **PED140 – FITNESS AND HEALTH FOR LIFE**

GRADE LEVELS AT WHICH COURSE IS OFFERED: 9<sup>th</sup> - 12<sup>th</sup> grades

PRE-REQUISITES OR CO-REQUISITES: None

COURSE CONTENT: The Fitness For Life curriculum will include a basic introduction to fitness, health, and nutrition. This course is designed for the less active high school student who would like to attain certain health and fitness goals with a non-threatening environment. Open to both boys and girls.

### **PED145 –CONDITIONING AND HEALTH FOR HS ATHLETES**

GRADE LEVELS AT WHICH COURSE IS OFFERED: 9<sup>th</sup> - 12<sup>th</sup> grades

PRE-REQUISITES OR CO-REQUISITES: None

COURSE CONTENT: All Grace Brethren athletes, male and female, in any sport, are highly encouraged to take this course. In addition to utilizing this time for target sport practice, each student athlete will be given an individualized training plan incorporating core strength activities, weights, and Vertimax training. Health curriculum is taught as part of this Physical Education class.

# SCIENCE

## Graduation Requirement: 6 Semesters (30 credits)

### **SCI119 - CONCEPTUAL PHYSICS**

UC APPROVED: “d” Laboratory Science

GRADE LEVEL AT WHICH COURSE IS OFFERED: 9<sup>th</sup> grade

PRE-REQUISITE: None

COURSE CONTENT: This course will cover common themes of physics such as mechanics, properties of matter, heat, sound and light, electricity and magnetism, and atomic and nuclear physics. Most importantly, this course will teach students how to think. Students will discover that they can comprehend complex material while refining their math skills in a practical way. In addition, this course will build the student’s competency in the process of scientific investigation and in his or her ability to distinguish between “good science” and “bad science”. Also, students will increase their laboratory safety and experimentation skills through conducting and observing various laboratory experiments. Ultimately, each student’s understanding of the Maker of our universe will be strengthened as we view His creation through the eyes of science.

### **SCI119H - CONCEPTUAL PHYSICS HONORS**

UC APPROVED: “d” Laboratory Science

GRADE LEVEL AT WHICH COURSE IS OFFERED: 9<sup>th</sup> grade

PRE-REQUISITE: A B+ or better in the previous year of Science and/or teacher/department chair approval.

COURSE CONTENT: This course will cover common themes of physics such as mechanics, properties of matter, heat, sound and light, electricity and magnetism, and atomic and nuclear physics. Most importantly, this course will teach students how to think. Students will discover that they can comprehend complex material while refining their math skills in a practical way. In addition, this course will build the student’s competency in the process of scientific investigation and in his or her ability to distinguish between “good science” and “bad science”. Also, students will increase their laboratory safety and experimentation skills through conducting and observing various laboratory experiments. Ultimately, each student’s understanding of the Maker of our universe will be strengthened as we view His creation through the eyes of science.

### **SCI111 - CHEMISTRY**

UC APPROVED: “d” Laboratory Science

GRADE LEVEL(S) AT WHICH COURSE IS OFFERED: 10<sup>th</sup> -12<sup>th</sup> grades

PRE-REQUISITES OR CO-REQUISITES: Algebra I with a C- or better (both semesters).

COURSE CONTENT: The course begins with an introduction to chemistry and the concepts on matter and change. The periodic table is studied in relation to the following concepts: atomic structure, models of the atom, organization and classification of elements, bonding, chemical names and formulas as well as chemical reactions. Stoichiometric problems are dealt with followed by studies on the states of matter, behavior of gases, water and aqueous solutions, solutions, thermochemistry, reaction rates and equilibrium, acids and bases, redox reactions, electrochemistry, organic chemistry and nuclear chemistry.



## **SCI111H – CHEMISTRY HONORS**

UC APPROVED: “d” Laboratory Science

GRADE LEVEL(S) AT WHICH COURSE IS TAUGHT: 10<sup>th</sup> -12<sup>th</sup> grades

PREREQUISITES OR CO-REQUISITES: Algebra I with a *B* or better (both semesters), a *B* or better in the previous year of Honors Conceptual Physics or a *B+* or better in the previous year of Conceptual Physics and/or teacher/department chair approval. Algebra II is a co-requisite.

COURSE CONTENT: The students in this course will learn the basic principles covered in a college general chemistry course. The first six chapters give a largely macroscopic, phenomenological view of chemistry. The next seven chapters deal with electronic structure and bonding, states of matter and solutions. The following seven chapters examine the factors that determine the speed and extent of chemical reactions: kinetics and equilibria. The topics on electrochemistry, nuclear chemistry and organic chemistry are discussed in the last chapters of the course.

## **SCI111AP – AP CHEMISTRY**

UC APPROVAL: “d” Laboratory Science

GRADE LEVEL AT WHICH COURSE IS OFFERED: 11<sup>th</sup> -12<sup>th</sup> grades PRE-REQUISITE: A *B* or better in the previous year of Honors Chemistry or a 92% or better in the previous year of Chemistry and/or teacher/department chair approval.

PRE-REQUISITE: The AP Chemistry course is designed to be taken only after the successful completion of a first course in high school chemistry. In addition, the recommended mathematics prerequisite for an AP Chemistry class is the successful completion of Algebra II.

COURSE CONTENT: The AP Chemistry course is designed to be the equivalent of the general chemistry course usually taken during the first college year. Students in such a course will attain a depth of understanding of fundamentals and a reasonable competence in dealing with chemical problems. The course will contribute to the development of the students’ abilities to think clearly and to express their ideas, orally and in writing, with clarity and logic.

## **SCI110 - BIOLOGY**

UC APPROVED: “d” Laboratory Science

GRADE LEVEL AT WHICH COURSE IS OFFERED: 11<sup>th</sup> -12<sup>th</sup> grades

PRE-REQUISITE: None

COURSE CONTENT: Biology begins with a review of the scientific method and biblical principles pertaining to the study of life. Students then study in sequence the chemistry of life, the anatomy and physiology of cells, genetics and the Creation/Evolution debate. During second semester, students are introduced to themes in ecology, survey the diversity of life, from bacteria to mammals and finally will investigate the systems of the human body.

## **SCI110H – BIOLOGY HONORS**

UC APPROVED: “d” Laboratory Science

GRADE LEVEL AT WHICH COURSE IS OFFERED: 11<sup>th</sup> -12<sup>th</sup> grades

PRE-REQUISITE: A *B* or better in the previous year of Honors Chemistry or a *B+* or better in the previous year of Chemistry and/or teacher/department chair approval.

COURSE CONTENT: Honors Biology begins with a review of the scientific method and Biblical principles pertaining to the study of life. Students then study in sequence the chemistry of life, the anatomy and physiology of cells, genetics, biotechnology, and the Creation/Evolution debate. Special emphasis is placed on recent developments by proponents of intelligent design. During the second semester, students are introduced to themes in ecology, survey the diversity of life, from bacteria to mammals, and finally will investigate the systems of the human body.

## **SCI110AP – AP BIOLOGY**

UC APPROVAL: “d” Laboratory Science

GRADE LEVEL AT WHICH COURSE IS OFFERED: 11<sup>th</sup> -12<sup>th</sup> grades

PRE-REQUISITE: A *B* or better in the previous year of Honors Chemistry or a 92% or better in the previous year of Chemistry and/or teacher/department chair approval.

COURSE CONTENT: This advanced Biology class will provide a comprehensive, college-level exposure to the Biological Sciences. This course will demand extra time on the part of the student, including some Saturday labs and summer preparation.

## **SCI121AP – AP PHYSICS I**

UC APPROVED: “d” Laboratory Science

GRADE LEVEL(S) AT WHICH COURSE IS OFFERED: 12<sup>th</sup> grade

PRE-REQUISITES OR CO-REQUISITES: A *B* or better in the previous year of Honors or AP science or an *A* or better in the previous non-Honors science and/or teacher/department chair approval. Successful completion of Geometry.

COURSE CONTENT: The AP Physics I course is the first year of introductory physics. AP Physics I encompasses core scientific principles and theories including: Kinematics, Newton's laws, Circular motion, Universal law of gravitation, Simple Harmonic Motion, Work, Energy, Rotational Motion, Electrostatics, DC Circuits, Mechanical Waves, and Sound. In AP Physics I, content and reasoning are equally important.

## **SCI122AP – AP PHYSICS 2**

UC APPROVED: “d” Laboratory Science

GRADE LEVEL(S) AT WHICH COURSE IS OFFERED: 12<sup>th</sup> grade

PRE-REQUISITES OR CO-REQUISITES: A *B* or better in the previous year of Honors or AP science or an *A* or better in the previous non-Honors science and/or teacher/department chair approval. Successful completion of Geometry.

COURSE CONTENT: AP Physics 2 is an algebra-based, introductory college-level physics course. Students cultivate their understanding of Physics through inquiry-based investigations as they explore topics such as fluid statics and dynamics; thermodynamics with kinetic theory; PV diagrams and probability; electrostatics; electrical circuits with capacitors; magnetic fields; electromagnetism; physical and geometric optics; and quantum, atomic, and nuclear physics.

## **SCI113 - ANATOMY AND PHYSIOLOGY**

UC APPROVED: “d” Laboratory Science

GRADE LEVEL AT WHICH COURSE IS OFFERED: 12<sup>th</sup> grade

PRE-REQUISITES OR CO-REQUISITES: Biology and Chemistry with a C- or better.

COURSE CONTENT: The course begins with a review of the basic concepts necessary for the study of anatomy and physiology such as language of anatomy, chemistry, and cytology. Histology will then be introduced followed by the different systems of the human body which are placed in four different units: (1) covering, support and movement of the human body, (2) regulation and integration of the body (3) maintenance of the body, and (4) continuity.

## **SCI117 - FORENSIC SCIENCE**

UC APPROVED: “g” Elective

GRADE LEVEL AT WHICH COURSE IS OFFERED: 12<sup>th</sup> grade

PRE-REQUISITES OR CO-REQUISITES: Biology & Chemistry with a C- or better.

COURSE CONTENT: The course starts with the study of the evolution of criminal investigation and legal aspects of investigation followed by physical evidence, interviewing and interrogation, crime scene reconstruction, injury and death investigations, arson and explosives, terrorism, agricultural, wildlife and environmental crimes, as well as recognition, control and investigation of drug abuse. The laboratory activities in this course are designed to meet the national science content standards.

## **SCI210 – INTRODUCTION TO ENGINEERING & DESIGN**

UC APPROVED: “g” Elective

GRADE LEVEL(S) AT WHICH COURSE IS OFFERED: 9<sup>th</sup> - 12<sup>th</sup> grade

PRE-REQUISITES OR CO-REQUISITES: None

COURSE CONTENT: Students will dig deep into the engineering design process, applying math, science, and engineering standards to hands-on projects. They work both individually and in teams to design solutions to a variety of problems using 3D modeling software and document their work in an engineering notebook.

## **SCI212 - PRINCIPLES OF ENGINEERING**

UC APPROVED: “g” Elective (Pending)

GRADE LEVEL(S) AT WHICH COURSE IS OFFERED: 10<sup>th</sup> - 12<sup>th</sup> grade

PRE-REQUISITES OR CO-REQUISITES: Introduction to Engineering & Design

COURSE CONTENT: 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.

## **SCI 214 –AEROSPACE ENGINEERING**

UC APPROVED: “g” Elective

GRADE LEVEL(S) AT WHICH COURSE IS OFFERED: 10<sup>th</sup> - 12<sup>th</sup> grade

PRE-REQUISITES OR CO-REQUISITES: Introduction to Engineering & Design and/or Principles of Engineering

COURSE CONTENT: Aerospace Engineering is the study of the engineering discipline which develops new technologies for use in aviation, defense systems, and space exploration. The course explores the evolution of flight, flight fundamentals, navigation and control, aerospace materials, propulsion, space travel, orbital mechanics, ergonomics, remotely operated systems and related careers. In addition the course presents alternative applications for aerospace engineering concepts. Students will analyze, design, and build aerospace systems. While implementing these designs, students will continually hone their interpersonal skills, creativity, and application of the design process. Students apply knowledge gained throughout the course in a final multi-media project to envision their future professional accomplishments.

## **SCI 216 –SPACECRAFT ENGINEERING**

UC APPROVED: “g” Elective (PENDING)

GRADE LEVEL(S) AT WHICH COURSE IS OFFERED: 10<sup>th</sup> - 12<sup>th</sup> grade

PRE-REQUISITES OR CO-REQUISITES: None

COURSE CONTENT: This class is centered on students going through the design and building process for constructing and launching a cube satellite. A cube satellite is 10cm by 10cm by 10cm. This small satellite will carry student created experiments into orbit around Earth. Once the satellite is launched, students will continue to monitor, communicate, and record data. Students will also have the experience of engaging with real world engineers through class lectures and field trips.

# **SOCIAL STUDIES**

**Graduation Requirement: 8 Semesters (40 credits)**

## **HIS109E/A – EXPOSITORY COMPOSITION/ANCIENT CIVILIZATIONS**

GRADE LEVEL(S) AT WHICH COURSE IS OFFERED: 9<sup>th</sup> grade

PRE-REQUISITES OR CO-REQUISITES: None

EXPOSITORY COMPOSITION (first semester) - COURSE CONTENT: Throughout the course, students will study and practice the use of different types of essays including analytical, argumentative, and persuasive. Students will use the textbook *Frames of Mind* to study the essay as a form of writing. They will learn about the different types of essays as well as the styles and techniques that are used in essay writing. Student will also read examples of different essays as well as practice writing their own essays.

ANCIENT CIVILIZATIONS (second semester) - COURSE CONTENT: In this course, students study the major turning points that shaped the ancient world from the earliest civilizations to the rise of the Greeks and Romans. They will trace the rise of democratic ideas and develop an understanding of the historical roots of current world issues.

## **HIS110 - WORLD HISTORY AND CULTURES**

UC APPROVED: “a” History/Social Science

GRADE LEVEL(S) AT WHICH COURSE IS OFFERED: 10<sup>th</sup> grade

PRE-REQUISITES OR CO-REQUISITES: None

COURSE CONTENT: In this course, students examine major turning points in shaping of the modern world, from the late fifteenth century to the present. The year begins with an introduction to current world issues and then continues with a focus on the expansion of the West and the growing interdependence of people and cultures throughout the world. This class will also include a review of the Protestant Reformation and moves forward to recent history and current events.

## **HIS110AP – AP EUROPEAN HISTORY**

UC APPROVED: “a” History/Social Science

GRADE LEVEL(S) AT WHICH COURSE IS OFFERED: 10<sup>th</sup> grade

PRE-REQUISITES OR CO-REQUISITES: An *A* or better in Geography/Ancient Civilization and/or teacher/ department chair approval.

COURSE CONTENT: The AP European course starts in 1450 with the introduction of the Protestant Reformation. It traces relevant cultural, political, social and economic trends throughout European History up through the end of the Cold War in 1992. Students will witness the major trends throughout modern European History through their textbook and outside primary sources.

## **HIS111 - UNITED STATES HISTORY**

UC APPROVED: “a” History/Social Science

GRADE LEVEL AT WHICH COURSE IS OFFERED: 11<sup>th</sup> grade

PRE-REQUISITES OR CO-REQUISITES: None

COURSE CONTENT: In this class, economic, political, social, cultural, militaristic, intellectual history is examined from the perspective of God’s sovereign intervention in the affairs of mankind. Students are expected to master major historical periods and pivotal events that shaped American history. These events include the Progressives, World Wars I and II, Great Depression, New Deal, Cold War, and much more.

## **HIS111AP – AP UNITED STATES HISTORY**

UC APPROVED: “a” History/Social Science

GRADE LEVEL(S) AT WHICH COURSE IS OFFERED: 11<sup>th</sup> grade

PRE-REQUISITES OR CO-REQUISITES: An A or better in World History and Cultures, a B or better in AP European History and/or teacher/department chair approval

COURSE CONTENT: In this class, students will be introduced to the pre-history of the North American continent, European exploration and the American Revolutionary period to the modern United States History. The Advanced Placement program in United States History is designed to provide students with the analytical skills and factual knowledge necessary to deal critically with the problems and materials in United States History. The program prepares students for intermediate and advanced college courses by making demands upon them equivalent to those made by full year introductory college courses. Students should learn to assess historical materials—their relevance to a given interpretive problem, their reliability, and their importance—and to weigh the evidence and interpretations represented in historical scholarship.

## **HIS112 - UNITED STATES GOVERNMENT AND ECONOMICS**

UC APPROVED: “a” History/Social Science **\*\***(only semester one of United States Government is UC approved.)

GRADE LEVEL AT WHICH COURSE IS OFFERED: 12<sup>th</sup> grade

PRE-REQUISITES OR CO-REQUISITES: None

COURSE CONTENT: This class builds upon the student’s previous learning to deepen his or her understanding of the different functions and philosophies of government. The students will study a detailed examination of federal governmental structure, the state structure and the role of the Christian citizen in it. Economics (2<sup>nd</sup> semester) covers the American economic system, the laws of supply and demand, business economics, institutional stability and global issues.

## **HIS112AP – AP UNITED STATES GOVERNMENT & POLITICS**

UC APPROVED: “a” History/Social Science

GRADE LEVEL(S) AT WHICH COURSE IS OFFERED: 12<sup>th</sup> grade

PRE-REQUISITES OR CO-REQUISITES: An A or better in U.S. History, a B or better in AP U. S. History and/or teacher/department chair approval

COURSE CONTENT: The course will take a thorough look at the American system, opinions, interests and organizations that influence the political process, the institutions of government, the politics of public policy, and the nature of American democracy. The course’s tangible objective is to prepare the student for the Advanced Placement examination in May.

## **HIS201 – INTRODUCTION TO LAW**

UC APPROVED: “g” Elective (Pending)

GRADE LEVEL(S) AT WHICH COURSE IS OFFERED: 11<sup>th</sup> – 12<sup>th</sup> grade

PRE-REQUISITES OR CO-REQUISITES: C or above in Expository Composition

COURSE CONTENT: This course is designed to provide students with an overview of the role and function of the basic procedures and legal principles of the U. S. legal system. Students will learn about the purpose, creation, and application of laws, court decisions, Family and Constitutional Law, and various other legal principles. An emphasis will be placed on how these laws are applied in real-life situations.

# VISUAL AND PERFORMING ARTS

Graduation Requirement: 2 Consecutive Semesters of the same course (10 credits)

## **FAD107 - SH CHOIR (I, II & III)**

UC APPROVED: “F” Visual and Performing Arts

GRADE LEVEL AT WHICH COURSE IS OFFERED: 9<sup>th</sup> -12<sup>th</sup> grades

PRE-REQUISITES: None

COURSE CONTENT: This class is designed to introduce, develop and master the skills of vocal technique and vocabulary. Vocal stylization will be emphasized. Students will be introduced to all genres of music. Students will study theory, music language and principles of performing and competition. The development of student leadership is emphasized.

## **FAD112 - SH ART MEDIA**

UC APPROVED: “F” Visual and Performing Arts

GRADE LEVEL(S) AT WHICH COURSE IS OFFERED: 9<sup>th</sup> -12<sup>th</sup> grades

PRE-REQUISITES OR CO-REQUISITES: None

COURSE CONTENT: In this class, students study themes in art, art media and techniques, as well as the chronology and history of art from prehistoric times through the present. Students are presented with various artistic styles, historical periods, and traditions of diverse cultures. In addition, cross-curricular features throughout various lessons provide students the opportunity to see how art is integrated with other disciplines. The course also covers a wide range of media, techniques, processes and artistic styles.

## **FAD215 – 3D DESIGN**

UC APPROVED: (Pending Approval) “F” Visual and Performing Arts

GRADE LEVEL(S) AT WHICH COURSE IS OFFERED: 9<sup>th</sup> -12<sup>th</sup> grades

PRE-REQUISITES OR CO-REQUISITES: None

COURSE CONTENT: 3D Design is structured to provide students with a fundamental understanding of three dimensional art topics. In addition to creating works of three-dimensional art, students will explore visual art themes through discussion as they build a portfolio. Students will learn artistic perception, creative expression, aesthetic valuing, connections relationships and applications through the visual arts. The elements and principles of design serve as a foundation for the beginning art student to develop the tools and skills necessary for future study.

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## **FAD112AP – AP STUDIO ART: DRAWING**

UC APPROVED: “F” Visual and Performing Arts

GRADE LEVEL(S) AT WHICH COURSE IS OFFERED: 11<sup>th</sup> -12<sup>th</sup> grades

PRE-REQUISITES OR CO-REQUISITES: Art Media

COURSE CONTENT: Develop technical skills and familiarize yourself with the functions of visual elements as you create an individual portfolio of work for evaluation at the end of the course.

## **FAD212AP – AP STUDIO ART: 2D DESIGN**

UC APPROVED: “F” Visual and Performing Arts

GRADE LEVEL(S) AT WHICH COURSE IS OFFERED: 11<sup>th</sup> -12<sup>th</sup> grades

PRE-REQUISITES OR CO-REQUISITES: Art Media

COURSE CONTENT: Demonstrate mastery through any two-dimensional medium or process, such as graphic design, digital imaging, photography, collage, fabric design, weaving, fashion design, fashion illustration, painting and printmaking. Develop technical skills and familiarize yourself with the functions of visual elements as you create an individual portfolio of work for evaluation at the end of the course.

## **FAD114 - SH PHOTOGRAPHY**

UC APPROVED: “F” Visual and Performing Arts

GRADE LEVEL(S) AT WHICH COURSE IS OFFERED: 9<sup>th</sup> -12<sup>th</sup> grades

PRE-REQUISITES OR CO-REQUISITES: None

COURSE CONTENT: In this class, students are taught the terminologies and techniques of photography. They will study the sensory, formal, expressive, and aesthetic properties of photographic art. Students will learn about the history of cameras and compare and contrast digital cameras vs. film cameras. They will learn about the capability of the different lenses, aperture settings, film speeds, and shutter settings to achieve the result they want in their photographs. They will learn the Elements of Art and the Principles of Design and how to use these elements and principles in their photographs. Students will take short field trips near the campus to fulfill their photo assignments as well as longer field trips where they go to take specific subject photos. They will keep a portfolio of their 10 best photographs for each assignment and journal for each chapter. Each student’s favorite photograph from each assignment will be critiqued to help them understand why a photograph is or is not successful.

## **FAD116 - SH DRAMA**

UC APPROVED: “F” Visual and Performing Arts

GRADE LEVEL(S) AT WHICH THE COURSE IS OFFERED: 9<sup>th</sup> -12<sup>th</sup> grades

PRE-REQUISITES OR CO-REQUISITES: None

COURSE CONTENT: In this class, students will be introduced to various forms of theater including improvisation, contemporary and classical. Students will briefly study theater history and will be exposed to current theatrical presentations.

## **FAD117 - TECHNICAL THEATER**

UC APPROVED: “P” Visual and Performing Arts

GRADE LEVEL(S) AT WHICH COURSE IS OFFERED: 9<sup>th</sup> -12<sup>th</sup> grades

PRE-REQUISITES OR CO-REQUISITES: None

COURSE CONTENT: In this class, students will begin with a series of lectures containing all key components needed for safe and efficient production work. They will then begin with hands on set building and working with some tool. Throughout the year, they will progress in their knowledge and ability to use more tools and techniques. They will practice set design by designing and constructing a diorama. Students will work on the Fall play, Christmas show, and Spring show as major projects. They will also work on other events which need technical assistance.

## **FAD121 - SH FILM STUDIES**

UC APPROVED: “P” Visual and Performing Arts

GRADE LEVEL(S) AT WHICH THE COURSE IS OFFERED: 9<sup>th</sup> -12<sup>th</sup> grades

PRE-REQUISITES OR CO-REQUISITES: None

COURSE CONTENT: In this class, students will be introduced to various classic films and current films that are revolutionary or contributing to artistic excellence in film making. Students will compare and contrast literature and its jump to film and will produce their own short film.

## **FAD122 - CERAMICS**

UC APPROVED: “P” Visual and Performing Arts

GRADE LEVEL(S) AT WHICH COURSE IS OFFERED: 9<sup>th</sup> -12<sup>th</sup> grades

PRE-REQUISITES: None

COURSE CONTENT: This course offers the student exposure to the principles of basic, three dimensional designs through the medium of clay. Students will experience various construction techniques to included hand-building processes to a more advanced level of proficiency of throwing in the potter’s wheel. Commercial aspects of slip-casting, or working with molds, will also be included.

## **FAD130 – FILM INDUSTRY I**

UC APPROVED: “P” Visual and Performing Arts

GRADE LEVEL(S) AT WHICH COURSE IS OFFERED: 9<sup>th</sup> -12<sup>th</sup> grades

PRE-REQUISITES: None

COURSE CONTENT: In this class students will view, discuss, and analyze films. Learn the basic history of cinema, as well as corresponding genres. Analyze film technique. Think critically about the act of filmmaking. This course will examine Hollywood cinema as an institution: its history, genres, and work as both a cultural form and an industry. In addition to gaining a broad historical understanding of film production and the film industry students will write, produce, and direct their own short film.

## **FAD132 – FILM INDUSTRY II**

UC APPROVED: “P” Visual and Performing Arts

GRADE LEVEL(S) AT WHICH COURSE IS OFFERED: 10<sup>th</sup> -12<sup>th</sup> grades

PRE-REQUISITES: Film Industry I

This course offers students the opportunity to learn advanced film making techniques, as well as give them an opportunity to use advanced camera and lighting equipment. Students will write, direct, and produce multiple films of different genres, length and scope. The class will go further in depth into the different production stages including the screenplay, technical elements of cinema, cinematography, editing, and sound.

## **FAD204 – JAZZ BAND (I & II)**

UC APPROVED: “F” Visual and Performing Arts

GRADE LEVEL(S) AT WHICH COURSE IS OFFERED: 9<sup>th</sup> -12<sup>th</sup> grades

PRE-REQUISITES: Intermediate Level Ability on an Approved Instrument

This class is available for students interested in playing in a jazz band ensemble that have at least one (1) year experience playing with a private teacher or in an organized school program. Student must be able to read music at an intermediate level. This class is open to most all instruments (strings and piano excluded). This is a performance ensemble, with concerts during the year. In addition, students will be taught history of jazz and the art of improvisation.

# SENIOR HIGH GRADUATION REQUIREMENTS

The Grace Brethren High School program is based on a college preparatory curriculum. Students are advised and encouraged to pursue a rigorous course of study to maintain a competitive edge with regards to UC/CSU minimum admission requirements.

## GBHS General Graduation Requirements:

Class	GBHS Requirements
Bible	each semester enrolled
English	8 semester
Math	6 semesters (through Algebra II)
Science (1 yr each of Physics, Biology and Chemistry)	6 semesters
History	7 semesters
Expository Composition (taken in conjunction with 9 <sup>th</sup> grade history)	1 semester
Foreign Language (2 years of the same language)	4 semesters
Critical Thinking & Composition (1 semester in 11th or 12th grade)**	1 semester
PE (2 semesters) or Sports (2 seasons)	2 semesters or 2 seasons
Visual Performing Arts (1 year of the same elective)	2 (consecutive) semesters
Electives	8 semesters

### Important to Note:

- 270 credits are required for Graduation.
- Seniors must be enrolled in a minimum of 6 courses each semester. Seniors who do not have a 2.67 GPA or higher at the beginning of a semester are not eligible for a free period.
- Seniors are strongly advised to take either the SAT or the ACT at least once prior to graduation.
- Health requirements are met in Physical Education classes, Biology, and Bible classes

**Senior Graduation Ceremony** - As stated in Grace Brethren Junior/Senior High Student Handbook:

In order to participate in the Graduation Ceremony and/or receive a Grace Brethren high school diploma, seniors must meet the following requirements:

- Complete all academic requirements and accumulate the 270 credits necessary for graduation.
- Have all financial obligations to the school paid in full.
- Have a satisfactory disciplinary record.
- Have a minimum GPA of a 2.0 and have no more than 3 semester Fs in their 4 year high school career

Additionally, any student failing three or more classes will not be allowed to participate in the graduation ceremony or receive a diploma until classes have been taken and credit earned. If ineligible to graduate because of failing class/es in June, the student must be enrolled in a summer school program (on or off campus) in order to successfully complete the missing required class/es. The approval of administration is required if class/es are taken off campus. Upon successful completion of these class/es, a Grace Brethren Diploma will be presented to the student.