

Grace Christian School

2020-2021

Course Description Catalog



**Grace Christian School
12407 Pintail St.
Anchorage, AK 99516
(907) 868-1203 FAX (907) 644-2261**

Grace Christian School admits students of any race, sex, color, national and ethnic origin to all rights, privileges, programs, and activities generally accorded or made available to students at Grace Christian School. We do not discriminate on the basis of race, sex, color, national or ethnic origin in administration of our educational policies, scholarship, and financial programs, athletic, and other administered programs.

Grace Christian School reserves the right to admit and retain students on the basis of academic performance, religious commitment of parents and students, philosophical compatibility, and a willingness to cooperate with the Grace administration and abide by the school's policies.

High School Course Overview

Required courses are in **bold** lettering with possible elective choices following.

9th Grade

**Bible Old Testament
Literature & Composition
Biology
Algebra 1 or Geometry
Health (.5 credit)
Alaska History (.5 credit)**

Fine Arts:

Art
Band
Choir
Orchestra
Theatre Arts
Percussion Ensemble (audition)
Vocal Ensemble (audition)
Jazz Band (audition)

Practical Arts:

Computer Science Essentials (CSE)
Publications

Other Electives:

Creative Writing
Sign Language 1/2
Spanish 1
Weightlifting

10th Grade

**Bible New Testament
World Literature
World History
Phys 1/Chem 1 or Chemistry 2
Geometry or Algebra 2**

Fine Arts:

Art
Band
Choir
Orchestra
Theatre Arts
Percussion Ensemble (audition)
Vocal Ensemble (audition)
Jazz Band (audition)

Practical Arts:

Computer Science Essentials (CSE)
CT Cybersecurity
Publications
Teacher's Aide

Other Electives:

Creative Writing
Sign Language 1 2
Spanish 1 or 2
Weightlifting

11th Grade

**Bible Foundations of the
Christian Faith/Marriage &
Family
American Literature
U.S. History
Algebra 2 or Pre-calculus w/
Trig**

Fine Arts:

Art
Band
Choir
Orchestra
Theatre Arts
Percussion Ensemble (audition)
Vocal Ensemble (audition)
Jazz Band (audition)

Practical Arts:

Computer Science Essentials (CSE)
CT Cybersecurity
Publications
Teacher's Aide
Student Internship Program

Science Electives:

Chemistry 2
GAMO (Geology, Astronomy,
Meteorology, Oceanography)
Physics 2
Other Electives:
Sign Language 1/2
Spanish 1-3/4
Weightlifting
Study Hall (no credit)

12th Grade

**Bible Biblical Worldview/
Comparative Religions
British Literature
American Government (.5 credit)
Economics or Psychology (.5 credit)**

Fine Arts:

Art
Band
Choir
Orchestra
Theatre Arts
Percussion Ensemble (audition)
Vocal Ensemble (audition)
Jazz Band (audition)

Practical Arts:

Computer Science Essentials (CSE)
CT Cybersecurity
Publications
Teacher's Aide
Student Internship Program

Life Skills

Math Elective:

Pre-calculus with Trig

Science Electives:

Chemistry 2
GAMO (Geology, Astronomy,
Meteorology, Oceanography)
Physics 2

Other Electives:

Creative Writing
Sign Language 1/ 2
Spanish 1-3/4
Weightlifting
Study Hall (no credit)

AP Course Opportunities

English Language & Composition
English Literature & Composition
Computer Science Principles (CSP)
Computer Science A (CSA)
U.S. History
U.S. Government & Politics
Biology
Environmental Science
Calculus AB

HIGH SCHOOL COURSE OFFERINGS

2020-2021

BIBLE

Reveling in God's Word to know Him more and to make Him known.

OLD TESTAMENT SURVEY

Grade: 9
Prerequisite: None
Resource: *ESV Bible*

This course lays the foundation for a total view of the Bible. As students study books from Genesis to Malachi they discover more of the character and nature of God and the unfolding of His sovereign plan for the salvation of mankind. This provides a basis for understanding the fulfillment of God's plan in the New Testament in the person of Jesus Christ.

NEW TESTAMENT SURVEY

Grade: 10
Prerequisite: None
Resource: *ESV Bible*

This is a study of the life of Jesus Christ, the work of the Holy Spirit in the church, and the fulfillment of God's plan throughout history and in the lives of people--past and present. Emphasis is placed on the unity and overall framework of individual books comprising the New Testament.

FOUNDATIONS OF CHRISTIAN FAITH

Grade: 11 (1 semester)
Prerequisite: None
Textbook: *ESV Bible, Fundamentals of the Faith* (Moody Publishers), excerpts from various authors: C.S. Lewis, T. Keller, M. Reeves, A.W. Tozer, G. Koukl

This is a one-semester course designed to introduce students to the central doctrines of the Christian Faith. Theological ideas are introduced in a systematic and holistic way with a view toward forming a comprehensive biblical worldview. With this class, students will receive a theological foundation that will challenge and deepen their understanding of God, the Bible, and the good news of the gospel; and will prepare them to adequately defend and articulate their faith.

MARRIAGE AND FAMILY

Grade: 11 (1 semester)
Prerequisite: None
Resource: *ESV Bible*

This is a one-semester course designed to inform the next generation as to the wisdom God gives for relationships. Students will be challenged to make informed and intentional decisions in regard to personal character, purity, and marriage amidst a cultural context that rejects the wisdom of God. Studies include personal identity and character, friendships, courtship and dating, marriage and family.

BIBLICAL WORLDVIEW

Grade: 12 (1 semester) **Graduation requirement**
Prerequisite: None
Resource: *ESV Bible*

This course helps students to shape their lives around the teaching of Scripture. Students study a variety of worldviews that they are likely to encounter in college and society in general. Students will learn to think critically about what they believe and develop a specifically Biblical Worldview.

COMPARATIVE RELIGIONS

Grade: 12 (1 semester)

Prerequisite: None

Resources: *Christianity, Cults and Religions* (Rose Publishing); *Christian History Made Easy*, Timothy Jones; *Denominations Comparison* (Rose Publishing); ESV Bible

This course teaches students the basic perspectives of the World's major religious systems. Students will learn the history, fundamental tenets, and modern perspectives of the major world religions. Students will also learn how to respond, as a believer, to those lost in other religious worldviews.

LANGUAGE ARTS

Developing minds and imaginations to comprehend and communicate Christ and His Word.

LITERATURE AND COMPOSITION

Grade: 9

Prerequisite: None

Textbook: *Language of Literature* (McDougal Littell)

This novel/memoir-based survey of literature will introduce students to a wide variety of prose, drama, and poetry. Grammar will be taught through imitation of great writers with the intent of mastery in student writing. Students will compose essays and creative pieces in response to literature and will compose a formal research essay addressing and proposing solutions for a real world problem. Students will read novels and nonfiction selections each quarter and will participate in oral projects including poetry memorization, declamatory speeches, and original persuasive speeches.

WORLD LITERATURE AND COMPOSITION

Grade: 10

Prerequisite: English 9 or satisfactory transcript and entrance exam results

Textbook: *World Literature* (McDougal Littell)

English 10 is a college preparatory class with a world literature emphasis. Students study most genres of literature and write in a variety of rhetorical modes with an emphasis on analysis. Weekly grammar and vocabulary activities are required. Students develop speaking and listening skills through a range of oral presentation, including declamation, small group and whole class discussion, and speeches.

AMERICAN LITERATURE AND COMPOSITION (subject is specifically required for graduation)

Grade: 11

Prerequisite: English 10 or satisfactory transcript and entrance exam results

Textbook: *American Literature* (McDougal Littell); and Supplemental American Novels

English 11 is a college preparatory class. This course studies the development of American literature from the 15th century to the present. Students write a variety of essays in which they analyze techniques appropriate to writing situations. Students are required to organize and complete a research paper and push their writing to the next level for college readiness. Grammar and vocabulary are integrated throughout the program to strengthen reading and the writing process. Students participate in the declamatory competition. In addition, many of the quizzes, testing practices, and/or essays will prepare students for standardized testing.

BRITISH LITERATURE AND COMPOSITION

Grade: 12

Prerequisites: English 11 for returning students or satisfactory transcript and entrance exam results

Textbook: *Language of Literature* (McDougal Littell)

This college preparatory class focuses on British Literature, incorporating works from different eras. Students write a variety of essays in which they analyze literary techniques and respond to themes prompted from the literature. They also write a literary research paper with an annotated bibliography. Students engage in creative and reflective writing and practice speaking skills through involvement in speeches (declamatory competition), formal and informal presentations, and Socratic discussion.

AP ENGLISH LANGUAGE AND COMPOSITION

Grade: 11

Prerequisites: English 10 with a grade of “A” or teacher recommendation and completion of AP English 11 required summer reading

Textbooks: The Norton Anthology of *American Literature* (W.W. Norton & Co), *American Literature* (McDougal Littell); and Supplemental American Novels, including *The Adventures of Huckleberry Finn*, Mark Twain; *The Great Gatsby*, F. Scott Fitzgerald

AP English will study a wide range of American Literature with an emphasis on identifying the author’s purpose and style, as well as recognizing rhetorical and argumentative strategies used. Writing in response to careful critical analysis of literature will be emphasized. A number of in-class writes will be done in order to prepare students for the AP Exam in May. The requirements and workload will be similar to college classes, so students should consider their overall academic and activities load before committing to this class. A student with a high score on the AP Exam may receive college credit from most universities/colleges and may be placed into a second semester college course, waiving the introductory English course. In addition, many of the essays will be timed in class-writes to help students prepare for the Advanced Placement Exam in May.

AP ENGLISH LITERATURE AND COMPOSITION

Grade: 12

Prerequisites: AP English Language and Composition with a grade of “B” or better or an “A” in English 11 or teacher approval based on an interview and a writing sample; students must also complete required summer reading.

Textbook: *Norton’s Anthology of English Literature*, M. H. Abrams; *Writing About Literature*, Edgar V. Roberts; Shakespearean tragedy and comedy, selected Romantic era and Victorian novels, and carefully chosen contemporary novels as well as poetry from various eras.

The AP English Literature and Composition course focuses on reading, analyzing, and writing about imaginative literature (fiction, poetry, drama) from various periods. Students engage in close reading and critical analysis of imaginative literature to deepen their understanding of the ways writers use language to provide both meaning and pleasure. As they read, students consider a work’s structure, style, and themes, as well as its use of figurative language, imagery, and symbolism. Writing assignments include expository, analytical, and argumentative essays that require students to analyze and interpret literary works. Though we will read widely and study representative works from various eras and genres, students will become intimate with a few works through discussion, analysis, essays, imitative composition, and tests. For formal essays we will work through the writing process, including teacher and peer feedback for revision of multiple drafts to craft a refined composition, whether creative or expository. In addition, many of the essays will be timed in class-writes to help students prepare for the Advanced Placement Exam in May.

CREATIVE WRITING

Grades: 9-12

Prerequisites: None

Students will read, analyze, critique, write, and rewrite dramatic scenes, creative nonfiction, fiction, poetry, and drama. Daily journaling is a requirement. Students will publish some of their work and complete a writer’s portfolio. This course may be taken more than once.

FINE ARTS

Experiencing God’s creativity by discovering, strengthening, expressing and revealing the creative gifts and talents of His people.

CHOIR

Grades: 9-12
Prerequisites: Willingness/ability to sing

Concert Choir is a performance ensemble that provides students with an opportunity to learn about music through the study of the choral art. Students will study music reading, music theory, a variety of styles of music, and historical context. Through this study, students will develop an understanding of music's role in Christianity and the Christian walk. As a part of the performance ensemble, participation in ASAA Competitive events as well as evening concert performances throughout the year is mandatory. Traveling performance opportunities are available in this class.

VOCAL ENSEMBLE

Grades: 9-12
Prerequisites: Audition with director; some music reading skills; before and/or after-school time for rehearsals

Vocal Ensemble is a course designed to provide students with a unique and challenging musical opportunity in the development of advanced part singing. Ensemble members will study music appropriate for small ensemble singing and perform at all scheduled GCS vocal concerts as well as participate in regional/state festivals. Participation in all scheduled rehearsals and performances will be mandatory. Traveling performance opportunities are available in this class.

BAND

Grades: 9-12
Prerequisites: Demonstrated ability with musical instrument and reading music. Audition and/or private lessons may be required.
Textbook: *Rubank Advanced Method*, H. W. Voxman

Band is a performance ensemble designed to teach music through an instrumental ensemble. Students will prepare traditional concert band music from a variety of styles for performance at public concerts during the year. Attendance at rehearsals and evening performances are vital components of this course and are therefore mandatory. Students are responsible to provide their own instrument and keep it in good working order. This ensemble is comprised of traditional concert band instruments*.

(*Guitars - including bass - are not considered traditional band instruments, and drummers will be expected to play all percussion instruments.)

PERCUSSION ENSEMBLE

Grades: 9-12
Prerequisite: Interview/Audition
Textbook: *Syncopation for the Modern Drummer*, Ted Reed
Exercises for Ensemble Drill, Raymond Russell

Percussion Ensemble will cover all the primary aspects of the modern percussion ensemble including rudimental drumming, DCI style drum line, orchestral percussion, African, Afro-Cuban, and Brazilian drumming, along with melodic percussion such as the vibraphone and marimba.

ORCHESTRA

Grades: 9-12
Prerequisites: Two years of playing a string instrument, or demonstrated ability and reading music. Audition and/or private lessons may be required.
Textbook: Sheet music and handouts

High School Orchestra is a performance-based class focused primarily on the string family. Grades are composed of in class participation along with attendance at a number of school performances along with the Region II music festival. (see this year's syllabus for more detail on dates)

ART

Grades: 9-12
Prerequisite: None

Students work with drawing in several mediums: graphite, charcoal, pastels, oil, and chalk. They will also participate in painting with watercolor, acrylic, ink, printmaking, and mixed media. Students will work with additive techniques such as clay, paper, metal, and

paper-Mache as well as subtractive techniques such as plaster, wood, and stone. Art gallery visits and response papers will be required to further enhance students' exposure to and understanding of art. Artist studies include those from the Old Masters as well as numerous contemporary artists.

THEATRE

Grades: 9–12
Prerequisites: none
Textbook: *Introduction to Theatre Arts*, Suzi Zimmerman

Theatre is a two-semester course designed to introduce high school students to elements of a theatre production. Students will learn basic history of the theatre, stagecraft, and acting skills in improvisation, monologues, and scene work. Students by the end of this course should possess a working knowledge of character development using body, voice, and imagination.

FOREIGN LANGUAGE

Equipping students to complete the Great Commission (see Matt. 28: 19-20) through language acquisition and cultural understanding.

SPANISH 1

Grades: 9-12
Prerequisite: None
Textbook: *Buen Viaje Spanish 1*(Glencoe/McGraw-Hill)

The Spanish 1 course is an introduction to Spanish that provides a foundation in the four language skill areas of listening comprehension, speaking, reading, and writing. Basic grammatical structure, vocabulary, and culture are gradually and systematically taught, reviewed and practiced. Basic grammar such as articles, adjectives, nouns, pronouns and possessive adjectives are covered. Students will also study conjugation of regular and irregular verbs in the present, present progressive and past tenses.

SPANISH 2

Grades: 10-12
Prerequisite: Spanish 1 with a grade of C or higher
Textbook: *Buen Viaje Spanish 2*(Glencoe/McGraw-Hill)

Spanish II is a continuation of Spanish 1, with an emphasis on the preterit, imperfect, future, conditional, imperfect progressive, present perfect, and imperative tenses. We continue to build on basic grammar structures and learn the proper use of pronouns, the comparative and superlative as well as demonstrative adjectives. Students will also learn to talk about their faith in Christ while sharing their personal testimony. Second semester lessons are conducted in Spanish.

SPANISH 3

Grades: 11-12
Prerequisite: Spanish 2 with a grade of a C or higher
Textbook: *Buen Viaje Spanish 3* (Glencoe/McGraw-Hill)

Students will gain fluency in Spanish through extensive vocabulary building, advanced grammar study, reading, writing, and listening to native speakers. Students will engage in conversational Spanish, read from Spanish Literature and discuss a variety of topics as well as read and comment on current events in the Spanish speaking world. Students will present a culture project, prepare and share speeches, discuss Latin American issues, and continue to discuss their faith in Christ. Lessons are conducted in Spanish and students are expected to speak in Spanish with one another.

SIGN LANGUAGE 1

Grades: 9-12
Prerequisite: None

Text Book: Signing Time Classroom Edition (Two Little Hands Productions) Master ASL Level 1 (Jason E. Zinza)

Students will acquire the skills necessary to converse in Sign Language. Emphasis is on grammar, vocabulary, Deaf history and conversational practice. Participation in class and presentations in ASL and some written assignments on Deaf culture and History are required.

SIGN LANGUAGE 2

Grades: 9-12
Prerequisite: Sign Language I with a grade of C or higher
Textbook: Master ASL Level 1

Students will continue with Master ASL1 and improve fluency in Sign Language through the study of vocabulary, guided and unguided dialogues, story telling, interpreting, and video viewing with comprehension checks. Some written assignments will be required as we continue to study Deaf history, culture and deaf individuals in history and pop culture. We will be requiring some outside of the classroom participation in Deaf events in our community.

HEALTH & PHYSICAL EDUCATION

Fostering the enjoyment of lifelong physical activity and training the Christian to approach health, fitness and competition biblically.

PHYSICAL EDUCATION

Students may receive a .25 credit for participation in a Grace high school sport. Students may only receive a maximum of .5 credits from sport participation, meeting the GCS PE requirement.

HEALTH

Grade: 9
Prerequisite: None
Textbook: *Glencoe Health* (Glencoe, McGraw-Hill)

The purpose of this class is to present the Bible as the foundation for a healthy lifestyle. In a quest for total health, we will cover physical, mental, social, and spiritual health. Studies will include anatomy and physiology, fitness, nutrition, diseases and disorders, medicines and drugs including tobacco, alcohol, and illegal substances, and basic first aid with CPR training. Students are graded on tests, quizzes, projects, and homework.

WEIGHT LIFTING

Grades: 9-12
Prerequisite: None

This course introduces the basics of weight training. Emphasis is placed on developing muscular strength through proper lifting techniques. Upon completion, students should know the skills and techniques of weight lifting such as powerlifting, exercises, breathing, spotting and safety procedures in addition to increasing their own personal muscular strength throughout the year. The student will also learn about various areas related to weight lifting such as human anatomy and physiology, nutrition, stretching, fitness and health.

MATHEMATICS

Preparing students to enjoy and appreciate God's design, order and steadfastness through integrating biblical and mathematical principles.

ALGEBRA 1

Grade: 9
Prerequisite: Pre-Algebra 2 with a grade of C or better or administrative review, for new students, a satisfactory score on the high school mathematics entrance exam.
Khan Academy Algebra 1 curriculum based on Common Core standards.

Course content will focus on linear equations. Intro to exponential and quadratic functions. Strong emphasis on applications and connections to other academic disciplines. It builds on concepts introduced in Pre-Algebra 2. Scientific calculator required.

GEOMETRY

Grades: 9-10 Prerequisite: Algebra 1 with a grade of C or better or administrative review: Algebra 2 may be taken concurrently with teacher's recommendation.

Curriculum: Khan Academy High School Online Geometry

This approach to Euclidean geometry includes Geometric Foundations, Transformations, Congruence and Similarity, Right Triangles and Trigonometry, Solid Geometry as well as Analytic coordinate geometry, and The Geometry of Circles. Scientific calculator, Compass and Protractor required.

This inductive approach to geometry incorporates the formulas and techniques of coordinate geometry. Each chapter integrates a review and application of algebraic skills and provides applications to real-life situations. Scientific calculator required, graphing calculator **optional**. Suggested graphing calculator: TI-83/4.

ALGEBRA 2

Grades: 10-12

Prerequisite: Algebra 1 with a grade of C or better or administrative review; Geometry may be taken concurrently with teacher's recommendation.

Khan Academy Algebra 2 curriculum based on Common Core standards.

A continuation and extension of Algebra 1. Concepts include absolute value, quadratic, polynomial, logarithmic, exponential, radical and rational functions. Study of function transformations. Introductions to conic sections and trigonometry are included. Scientific calculator required.

PRE-CALCULUS

Grades: 11-12

Prerequisites: Algebra 2 and Geometry, both with a C or better.

Khan Academy PreCalculus curriculum based on Common Core standards.

Precalculus with trigonometry introduces trig functions, their graphs, and trig identities. Other concepts include algebraic modeling, complex numbers, vectors, matrices, conic sections, series and probability. The year concludes with an introduction to calculus. Scientific calculator required.

AP CALCULUS AB

Grades: 11-12

Prerequisite: Precalculus with a grade of B or better

Textbook: *Calculus of a Single Variable AP Edition, 9th edition (2009), Larson & Edwards (Brooks/Cole)*

Advanced Placement Calculus AB is a college-level course roughly equivalent to Calculus 1 (first semester college calculus) in college. A student with a high score on the Advanced Placement exam will receive college credit from most universities/colleges and will usually be placed into a second semester college calculus course, Calculus 2. This AP course is devoted to topics in differential and integral calculus. It includes concepts and skills of limits, derivatives, definite integrals, and the Fundamental Theorem of Calculus. The course teaches students to approach calculus concepts and problems when they are represented graphically, numerically, analytically, and verbally, and to make connections amongst these representations. Students learn how to use technology to help solve problems, experiment, interpret results, and support conclusions. (The College Board 2016).

Students should consider their overall academic load and extra-curricular activities before committing to this class. Suggested daily after school commitment is 45 - 75 minutes, 6 days a week. Graphing calculator is required. Suggested calculator: TI-84 (silver ed, or CE) or TI-89.

PRACTICAL ARTS

Training students in today's life skills and technology so they can honor God with these abilities.

LIFE SKILLS

Grades: 12
Prerequisite: none

Available to seniors only, this course introduces a variety of valuable life skills. Topics covered include finances (tithing, budgeting, taxes, investments, check writing, and balancing), home economics, college and career skills, electrical and plumbing, outdoor skills, First Aid and CPR, and automobile basics. Students will be required to participate in hands-on projects, and field trips, and will learn from a variety of guest speakers. Childcare unit using “*Realbabies*” (simulated dolls).

PUBLICATIONS

Grades: 9-12
Prerequisites: Teacher approval, with possible interview and recommended teacher references as requested by the teacher. Students should maintain a B average in all classes, be exceptional workers, willing to learn, quick to follow instructions, and glorify Christ in all things.

The creation of the school’s yearbook is the primary focus of Publications class. Course content includes writing, photography, ad sales, yearbook sales, design layout, journalism ethics, publishing criteria, and development of computer skills using Photoshop and other related software and hardware.

TEACHER’S AIDE

Grades: 10-12
Prerequisite: None

Students assist teachers in elementary and secondary classrooms, staff offices, or in the library. Students will be assigned various tasks depending on their placement. Each student will be assigned to one teacher for the entire year. Students may carry only one Teacher’s Aide course per year and must be self-motivated, responsible, flexible, and mature enough to work through potential conflicts.

INTERNSHIP PROGRAM

Grades: 11-12
Prerequisite: Administrative approval only

Available to Juniors and Seniors only. The Student Internship Program is a cooperative arrangement between the school and internship supervisor. The student will receive vocational training in a profession of their choice. The internship will be supervised by the school coordinator and the internship supervisor. The experience will contribute to the student’s education and employability.

COMPUTER SCIENCE ESSENTIALS (CSE)

Grades: 9-12
Corequisite: Algebra I
Prerequisite: B or higher in 8th Grade Math
Textbook: Project Lead The Way (PLTW)

Computer Science Essentials (CSE) is an excellent entry point for new high school computer science (CS) learners. All students who take CSE will have many opportunities for creative expression and exploration in topics of personal interest, whether it be through app development, web design, or connecting computing with the physical world. CSE will boost student success for those who continue in PLTW CS courses. These intentional connections to widely accepted standards will help students gain confidence and reinforce essential concepts and skills that build toward lifelong success in the computer science pathways beyond just PLTW courses. PLTW CSE introduces students to coding fundamentals through an approachable, block-based programming language where they will have early success in creating usable apps. As students sharpen their computational thinking skills, they will transition to programming environments that reinforce coding fundamentals by displaying block programming and text based programming side-by-side. Finally, students will learn the power of text-based programming as they are introduced to the Python® programming language.

CYBERSECURITY (CT)

Grades: 10-12
Corequisite: Geometry
Prerequisite: B or higher in Algebra I, Computer Science Essentials
Textbook: Project Lead The Way (PLTW)

Cybersecurity (CT) is a full-year course designed to increase the students' knowledge of their cybersecurity through the Project Lead the Way (PLTW) course. The design of the course exposes high school students to the ever growing and far reaching field of cybersecurity. Students accomplish this through problem-based learning, where students role-play as cybersecurity experts and train as cybersecurity experts do. PLTW Cybersecurity strongly connects to the National Cybersecurity Workforce Framework (also known as the NICE Framework or NCWF). Created by the National Institute of Standards and Technology (NIST), this framework identifies standards developed by numerous academic, industry, and government organizations, including integration with Computer Science Teachers Association (CSTA) standards. The framework objectives incorporate many of the big ideas and learning objectives outlined by the College Board and addressed in AP CSP and AP CSA. PLTW Cybersecurity gives students a broad exposure to the many aspects of digital and information security, while encouraging socially responsible choices and ethical behavior. It inspires algorithmic thinking, computational thinking, and especially, "outside-the-box" thinking. Students explore the many educational and career paths available to cybersecurity experts, as well as other careers that comprise the field of information security.

SCIENCE

Marveling at God's amazing revelation of Himself through the diligent study of His creation.

BIOLOGY

Grade: 9-12
Prerequisite: None
Textbook: Glencoe *Biology* (McGraw Hill)

Biology is a one-year course that introduces the student to the structures and functions of living organisms. It is an exciting journey into the macroscopic and microscopic world including a study of biochemistry, genetics, cell biology, ecology, and current topics affecting our daily lives. Students will be involved in research and laboratory activities that prepare them for future science courses.

PHYSICS 1/CHEMISTRY 1

Grades: 9-11
Prerequisite: Algebra 1
Textbook: *Physical Science* (Glencoe)

Physics 1/Chemistry 1 is a course designed to prepare students for college prep chemistry and physics. In physics, students will learn the basics of Newton's Laws, motion, work, energy, electricity and magnetism through weekly labs, lecture and group work the first semester. Second semester, students will study chemistry and participate in weekly labs. Students will learn about the periodic table, how to balance chemical equations, how to form chemical reactions and bonds. Then students will move on to study acids, bases and salts. Once completed, students will have a thorough understanding of chemistry and will be well prepared for future chemistry and physics courses.

CHEMISTRY 2

Grades: 10-12
Prerequisite: C or better in Geometry & Algebra I.
Textbook: *Chemistry - Matter and Change* (McGraw-Hill Glencoe)

Chemistry is called the "central science" because it provides the background required for all other science and technology courses. It is a college preparatory class that provides extensive problem solving and laboratory experiences. Mental maturity and persistence are required to grasp many of the abstract concepts in chemistry. Students must have good organizational and study skills as well as a firm grasp of Algebra I. It is required that the student has a C or better in Algebra I before taking Chemistry. Algebra scores are a better indicator of success in Chemistry than Biology scores. A scientific calculator such as the TI-84 or TI-86 is required.

PHYSICS

Grades: 11-12
Co-Requisite: Precalculus
Textbook: *Physics, 3rd Edition* (Bob Jones)

Physics is a year long, college preparatory class that will introduce students to the main concepts of classical physics including mechanics, wave mechanics, optics, electricity, and magnetism. Class discussions, demonstrations, and lab experiments will reinforce physical concepts. All topics explored will include mathematical reasoning and justification in order to enhance student understanding. A graphing calculator such as the TI-84 or TI-86 is required.

GAMO (Geology, Astronomy, Meteorology, Oceanography)

Grades: 11-12

This course will explore different specialized scientific systems within the larger field of science: Geology, Astronomy, Meteorology, and Oceanography. The purpose of this course is to educate students in such a way that they gain a broader scientific understanding of the ways in which these different systems interact with each other and affect our planet.

AP COMPUTER SCIENCE PRINCIPLES (AP CSP) (Odd years)

Grades: 11-12
Prerequisite: B or better in Algebra I, Geometry, and Computer Science Essentials (CSE)
Corequisite: Algebra II
Textbook: Project Lead The Way (PLTW)

Computer Science Principles (CSP) is a year long PLTW course that implements the College Board's new AP CS Principles framework. Students work in teams to develop computational thinking and solve problems. The course does not aim to teach mastery of a single programming language but aims instead to develop computational thinking, to generate excitement about the field of computing, and to introduce computational tools that foster creativity. The course also aims to build students' awareness of the tremendous demand for computer specialists and for professionals in all fields who have computational skills. Students practice problem solving with structured activities and progress to open-ended projects and problems that require them to develop planning, documentation, communication, and other professional skills. Problems aim for ground-level entry with no ceiling so that all students can successfully engage the problems. Students with greater motivation, ability, or background knowledge will be challenged to work further. Students are required to have access to a computer with connection to the Internet at home where they will install the needed software for this course and have access to finish their homework.

AP COMPUTER SCIENCE AND APPLICATIONS (AP CSA) (Even years)

Grades: 11-12
Prerequisite: B or better in Algebra I, Geometry, and Computer Science Essentials (CSE)
Corequisite: Algebra II
Textbook: Project Lead The Way (PLTW) and Codehs

Computer Science and Applications (CSA) aligns with the College Board's CSA framework. CSA builds on the basic skills learned in other CS courses to teach students Java and authentic Android app development. Students in this course continue to hone their communication and collaboration skills while learning to use a variety of tools. The primary goal of the course is to create independent-thinking app developers: every unit in this course builds on student's prior knowledge and skills until they are able to complete an app development cycle independently from the ground up.

AP BIOLOGY

Grades: 11-12
Prerequisite: B in Biology, Chemistry, Algebra II, and most recent English.
Textbook: *Biology, 9th Edition* (Addison Wesley Longman, Inc.)

Advanced Placement Biology is a year-long course designed for students that have a strong interest in, or desire to pursue a career in the sciences. The AP Biology course introduces students to topics covered in a freshman biology course at the university level, including, biochemistry, cytology, physiology, ecology, and evolutionary theory. To succeed in AP Biology students must be highly motivated to learn. Reading requirements for the course are rigorous and require a daily commitment. Exams generally cover 3-4 chapters in the text and occur every 2-3 weeks. Laboratory activities are conducted to give the student a representation of a university

level biology course. In the spring the AP examination will be offered. A student with a high score on the Advanced Placement exam can receive college credit from most colleges.

AP ENVIRONMENTAL STUDIES

Grades: 10-12 (College-level course)
Prerequisites: 10th-12th grades, enrolled in Algebra II or higher
Textbook: *Under Review*

Advanced Placement Environmental Science is an interdisciplinary lab course that focuses on ecological processes, human impacts on the Earth, and how to resolve or prevent natural and human-made environmental problems. Students develop their understanding of the interrelationships of the natural world through hands-on experience in the form of completing lab investigations and field work as they explore concepts like energy transfer, interactions between earth systems, interactions between different species and the environment, and sustainability. Students who take this course are expected to be able to apply scientific concepts, principles, and methodologies to real-world examples and problems. In the spring, the AP Examination will be offered. A student with a high score on the AP Exam may receive college credit.

SOCIAL STUDIES

Instilling a love of history by understanding people, places, cultures, and events and by recognizing God's hand in them.

ALASKA HISTORY

Grade: 9-12
Prerequisite: None
Textbook: Alaska History text on Mr. Roman's Google Classroom

Alaska History is a course that focuses on Alaska's rich history and the many factors that helped make it into the great state it is today. Unit studies will include geography, culture, economy, history, and government of Alaska. Each of the units of study will have current event issues/topics that will be discussed. Upon the conclusion of this class students will have gained knowledge that will help enable them to be productive, God honoring, active community members in our state.

WORLD HISTORY

Grade: 10
Prerequisite: None
Textbook: *World History: Patterns of Interaction* (McDougal Littell)

This study of the history of the world, from early river valley civilizations to World War II, with a strong emphasis on Western Civilization, helps students see God's hand moving throughout history to fulfill His plan for the world.

UNITED STATES HISTORY

Grades: 11
Prerequisite: None
Textbook: *American History: Heritage of Freedom* (Abeka)

US History is a one year course examining the events, people and places that have shaped the nation and our Christian heritage. We will look at events from the discovery of the North American continent to the present. We will emphasize the forces and events that affected the everyday lives of ordinary people-along with presidential elections, foundations of our government, wars, and the building of industrial empires. A special emphasis will be given to the cause and effect of events because, "History shapes people, and people shape history."

AMERICAN GOVERNMENT

Grade: 12
Prerequisite: None
Textbook: *McGruder's American Government* (Prentice-Hall)

This course is designed to render an understanding of the foundations of American government. Time is spent on both the beginnings and historical development of the American democratic experience. Special emphasis is given to matters of checks and balances, the three branches of government and their function, special interest groups & lobbying, and the influence of public opinion. Students will address current events in today's society. Students are encouraged to read newspapers, weekly news magazines, listen to news radio, watch news programs, etc. Classroom discussion is expected in this course.

ECONOMICS

Grade: 12
Prerequisite: None
Textbook: *Economics: Principles in Action* (Prentice-Hall)

This course will focus on how economics functions as an integral part of government policy and its role in relation to individual interests associated with our daily lives. Subjects examined in some detail include: capitalism and the market economy, supply and demand, measuring economic performance, sources of capital, budget, and trade deficits, and economic problems facing developing nations.

GENERAL PSYCHOLOGY

Grade: 12
Prerequisite: None
Textbook: *Understanding Psychology* (Glencoe)

This course examines various topics such as the life span, sensation and perception, learning, memory, motivation, emotion, theories of personality, psychological disorders and dealing with stress in our lives. One outcome of General Psychology should be the realization of the complex nature of God's creation in the form of human beings.

AP US HISTORY (odd years)

Grade: 11-12
Prerequisite: None
Textbook: *The American Pageant 15th edition.*

This college level course is an introduction to the approaches, techniques, and sources historians use in drawing meaning from the past in contextualizing the present. It is important to remember that the discipline of history is a way of interpreting data and a way of critical thinking about it. Students will be required to read both secondary and primary resources. They will be encouraged to work on critical reading, writing, and speaking skills. Our objective is to understand not only what happened but also why it happened. History does not occur in a vacuum! Students will learn to identify bias in writing and separate fact from opinion. Students will be encouraged to develop a critical perspective based on logic, careful analysis, reading, and thinking. Although there is little to be gained by rote memorization of historical data (names, dates, documents, events, battles, etc.), a student must know these details as a resource to draw upon factual knowledge IN ORDER to exercise analytical skills intelligently. One must argue their thesis with facts vs. an opinion that is unsubstantiated. The course will emphasize a number of **themes** throughout the year to encourage students to think conceptually about the American past and to focus on historical change over time. These themes include the following topics: American Diversity, American Identity, Culture, Demographic Changes, Economic Transformations, Environment, Globalization, Politics and Citizenship, Reform, Religion, Slavery and Its Legacies in North America, and War and Diplomacy.

AP U.S GOVERNMENT & POLITICS (even years)

Grade: 11-12
Prerequisite: None
Textbook: *Government in America: People, Politics, and Policy*

The AP U.S. Government and Politics is an in-depth look at the government of the United States that includes a study and evaluation of the political system. The course is designed to help students develop an understanding and appreciation for how the US government works and how it influences American citizens. This course will allow students to understand how their active participation in our political system is essential to its survival. This course will require students to work at an accelerated level, and the opportunity to prepare for the AP U.S. Government and Politics Exam.

JUNIOR HIGH COURSE OVERVIEW

Mandatory courses are in bold with elective choices following. The elective options include: Choir, Band, Publications or Art.

7th Grade

Bible 7

English 7

World History

Life Science

Pre-Algebra 1 or 2 (math placement dependent)

7th Grade Elective Quarterly Rotation:

PE (2), STEM 7, Study Skills

Fine Arts Elective (Choose 1)

Year-Long Band, Choir, Publications

Semester-Long Art and Theatre

8th Grade

Bible 8

English 8

U.S. History

Earth Science

Pre-Algebra 2 or Algebra 1

8th Grade Quarterly Elective Rotation:

PE, STEM 8, Careers, ICS (Into to Computer Science)

Fine Arts Elective (Choose 1)

Year-Long Band, Choir, Publications

Semester-Long Art and Theatre

JUNIOR HIGH COURSE OFFERINGS

BIBLE

Reveling in God's Word to know Him more and to make Him known.

BIBLE 7

Grade: 7
Prerequisite: None
Textbook: *Character Quest* (Lifeway), ESV Bible

Students study a variety of Old and New Testament characters through lessons in our text and God's Word. Using Biblical examples students learn how to face the challenges they experience in their lives. They also gain a partial understanding of who God is and see the broad scope of His plan that He has revealed to us through His word. Students will also learn of the inerrancy and reliability of God's Word and seek to understand and live the life God has told us He wants us to have.

BIBLE 8

Grade: 8
Prerequisite: None
Textbook: *Young Peacemaker*

The first semester we will go through the Young Peacemaker curriculum which teaches how to resolve conflict Biblically. The principles include a proper understanding of conflict, the heart issues underlying conflict, meaningful confession, true forgiveness, and respectful communication. The second semester is devoted to helping students strengthen their faith and learn how to defend it. We will study the reliability of Scripture, how to explain apparent contradictions in the Bible, and how to interact with atheists and non-Christians and answer their objections to Christianity. We will also spend a significant amount of time learning about logical fallacies in order to avoid faulty reasoning and to be able to discern it in those who would attempt to persuade us to reject the Bible.

LANGUAGE ARTS

Developing minds and imaginations to comprehend and communicate Christ and His Word.

ENGLISH 7

Grade: 7
Prerequisite: None
Textbook: *Language of Literature* (McDougal Littell)
Vocab from Classic Roots A (ABeka)

English 7 places a strong emphasis on the study of literature as well as the writing process. Students read and write for both technical and aesthetic purposes. Grammar, spelling, and vocabulary are integrated throughout the curriculum. Students are required to participate in the ACSI Speech Meet.

ENGLISH 8

Grade: 8
Prerequisite: None
Textbook: *Language of Literature* (McDougal Littell)

This course is designed to introduce students to major literary elements and critical thinking in each reading selection. There is a strong emphasis on grammar, writing skills, spelling, vocabulary, and literature. Students use the Analytical Grammar Program which covers all the rules of grammar through diagramming. Students are required to organize and complete a research paper. All 8th graders are required to participate in ACSI Speech Meet. Students are using Accelerated Reader Program and further developing their writing skills with the My Access Writing Program. Both of these programs are developing technological skills on the computer.

MATHEMATICS

Preparing students to enjoy and appreciate God's design, order and steadfastness through integrating biblical and mathematical principles.

PRE-ALGEBRA 1

Grade: 7

Prerequisite: Teacher's recommendation, standardized testing, previous math grades, and entrance exam results

Curriculum: Khan Academy Math 7

Students in Pre-Algebra 1 will learn to think and communicate mathematically, gain confidence in their mathematical abilities, think critically while developing their own problem solving methods, and will build upon their knowledge of mathematical concepts including rates and ratios, operations with positive and negative integers, beginning one and two step equations and inequalities, Geometry and measures of central tendency. Scientific Calculator necessary in 2nd part of the course.

Students in Pre-Algebra 1 will learn to think and communicate mathematically, gain confidence in their mathematical abilities, think critically while developing their own problem solving methods, and will build upon their knowledge of mathematical concepts and skills. Calculators will be provided by the instructor as needed.

PRE-ALGEBRA 2

Grades: 7-8

Prerequisite: Teacher's recommendation, standardized testing, previous math grades, and entrance exam results

Curriculum: Khan Academy Math 8 and Pre-Algebra Students in Pre-Algebra 2 will learn to think and communicate mathematically, gain confidence in their mathematical abilities, think critically while developing their own problem solving methods. Students will strengthen knowledge of positive and negative integers expanding within rational expressions, exponents, and further solving and graphing functions. Students will be solving simple simultaneous linear equations, using the pythagorean theorem, and be introduced to Geometric Transformations and Data and Modeling. Scientific Calculator required for this course.

Students in Pre-Algebra 2 will learn to think and communicate mathematically, gain confidence in their mathematical abilities, think critically while developing their own problem solving methods, and will build upon their knowledge of mathematical concepts and skills. Calculators will be provided by the instructor as needed.

ALGEBRA 1

Grades: 8

Prerequisite: Pre-Algebra 2 with a grade of B or better or administrative review

Textbook: *Algebra* (McDougal Littell)

Eighth grade Algebra 1 is a high school level course, but junior high students do not earn high school credit.

This course will not only focus on algebraic equations and problem solving but also on applications and connections to other academic disciplines. It builds on concepts introduced in Pre-Algebra 2. Scientific calculator required, graphing calculator optional. Suggested calculator: TI-83, TI-84, or TI-86.

SCIENCE

Marveling at God's amazing revelation of Himself through the diligent study of His Creation.

LIFE SCIENCE

Grade: 7

Prerequisite: None

Textbook: *Life Science* (Bob Jones University)

The focus of the 7th grade science curriculum is Life Science. Students will explore the features and needs of viruses and living things using scientific methods and problem-solving skills. Students relate the function of cells, the processes of cells, and the reproduction of cells to simple and complex organisms. Students will discover patterns of heredity and will investigate DNA relationships. The theory of evolution will be discussed and contrasted with the reality and truth of God's Word. Organisms in various kingdoms and the

characteristics used to classify them are presented. Differences in cell structure are also discussed. Students are introduced to the plant kingdom including plant processes and relationships. Students examine animal characteristics and determine how they are used to classify animals into the different phyla. Students are introduced to the fundamentals of ecology. Ecosystems and the recession of ecosystems are explored. Students are given an introduction to the systems of the human body and how they function. An understanding of organs and how systems interact is developed. Also included in this course is a discussion on human growth and development from conception to birth, basic health concepts and healthy lifestyle choices.

EARTH SCIENCE

Grade: 8
Prerequisite: Life Science
Textbook: *Earth Science* (Bob Jones University)

The focus of the 8th grade science curriculum is Earth Science. Students are introduced to the branches of science involved in the study of Earth Science (Biology, Chemistry, Geology, Meteorology, Oceanography, and Astronomy). Through class and lab activities students are introduced to Earth materials. Students apply science to the solving of problems and work with Scientific Methods. They are led through the elements of basic science and introduced to atomic structure. The differences between atoms and molecules are examined. Minerals are defined and mixtures of minerals are identified as rocks. The rock cycle and the three major classifications of rocks are studied. Students study landforms and examine the processes and agents that create these surface features as they learn about weathering and erosion. Students are introduced to the relationships among earthquakes, volcanoes, and plate tectonics, and how the forces within the Earth are tied to these relationships. The theory of evolution is discussed and contrasted with the reality and truth presented in God's Word. Students study the Earth's atmosphere and oceans as well as the characteristics and movement of air and water. Students examine the impact that humans have on the environment and study current events regarding pollution. Students explore the majesty of our created universe while studying the earth, moon system, solar system and galaxies.

SOCIAL STUDIES

Instilling a love of history by understanding people, places, cultures and events and by recognizing God's hand in them.

WORLD STUDIES

Grade: 7
Prerequisite: None
Textbook: *World Studies* (BJU Press)

This course is an overview of the history of the world; from ancient civilizations up to the modern era. Students are exposed to the history, religion, culture, government, and economy of different regions of the world both past and present. We will learn how primary sources are important to linking the past to the present. World geography will also be a component of this class.

UNITED STATES HISTORY

Grade: 8
Prerequisite: 7th grade World History
Textbook: *The American Republic*, (BJU Press)

This course starts with the discovery of the Americas, and follows our history through colonial times, the birth of our nation, and through the Vietnam War. Primary sources will have an important role in understanding the life of average Americans.

JUNIOR HIGH FINE ART ELECTIVES

Experiencing God's creativity by discovering, strengthening, expressing and revealing the creative gifts and talents of His people.

BAND

Grades: 7-8
Prerequisite: None

Band students will study level-appropriate music to further develop their instrumental skills and prepare them for high school band. Demonstrated ability on a traditional concert band instrument* will be required for participation on approval from the instructor. Students will prepare a wide variety of music for various concert performances. (**Guitars - including bass - are not considered traditional band instruments, and drummers will be expected to play all percussion instruments.*)

CHOIR

Grades: 7-8
Prerequisite: None

Junior High Choir is an exciting introduction to part singing and intermediate vocal technique. All students of changed and unchanged voices are welcome to participate. They will study 2 and 3-part music of a variety of styles for presentation in public concerts. As a part of the ensemble experience, participation in evening concert performances throughout the year is mandatory.

PUBLICATIONS

Grades: 7-8
Prerequisites: Teacher approval, with possible interview and recommended teacher references as requested by the teacher. Students should maintain a B average in all classes, be exceptional workers, willing to learn, quick to follow instructions, and glorify Christ in all things.

The creation of the school's yearbook is the primary focus of Publications class. Course content includes writing, photography, ad sales, yearbook sales, design layout, journalism ethics, publishing criteria, and development of computer skills using Photoshop and other related software and hardware.

INTRODUCTION TO ART

Grades: 7-8
Prerequisite: None

This course develops a foundation in art through exposure to several 2-D and 3-D projects and mediums. These include drawing, color theory, layout design, watercolor, clay, and instruction in the elements and principles of art through practice. Art history is also integrated throughout this course.

THEATRE

Grades: 7-8
Prerequisite: None

This theatre course encourages creativity, teamwork, fine motor skills, and confidence. This course focuses on both the performance and production aspects of theatre. Students will build models, think critically about scripts, and practice performing in exciting and engaging ways.

PHYSICAL EDUCATION

The following courses are rotated every quarter.

PHYSICAL EDUCATION 7 (2 quarters)

Grade: 7
Prerequisite: None

In this course students will participate in physical conditioning and testing, ultimate Frisbee, basketball, floor hockey, soccer, diamond sports(kickball, baseball, etc) as well as games that promote activity and teamwork. Students are expected to dress out for class, participate, and take unit tests.

PHYSICAL EDUCATION 8 (1quarter)

Grade: 8
Prerequisite: None

In this course students participate in physical conditioning and testing, ultimate Frisbee, soccer, badminton, basketball, volleyball, diamond sports(kickball, baseball, etc.), as well as games that promote activity and teamwork. In addition, they will be involved in rope jumping, group games, and leisure games. Students are expected to dress out for class, participate and take unit tests.

STEM

STEM 7

Grade: 7
Prerequisite: None

Science, Technology, Engineering and Math is a discovery class using all aspects of each to complete projects and labs. Students will be working in groups to solve thought provoking problems, make discoveries, explore, experiment and make mistakes. Students will use an inquiry based approach to work on various topics such as crime scene forensics, ecology, magnetism, energy, mass and velocity, and buoyancy. Goals for each student include development of skills to learn and apply new content, integrate previous content, interpret and communicate information effectively, use logical reasoning and work well as a member of a team. The curriculum is designed for in class group work and each student is expected to participate cooperatively, provide input, and think outside the box, while learning in class.

STEM 8

Grade: 8
Prerequisite: None

Science, Technology, Engineering and Math is a discovery class using all aspects of each to complete projects and labs. Students will be working in groups to solve thought provoking problems, make discoveries, explore, experiment and make mistakes. Students will use an inquiry based approach to work on various topics such as thermal dynamics, forensics, electricity, space science, simple machines, architecture, civil engineering, Newton's laws of physics, mechanics, etc. Student goals continue to be the development and application of learning, applying new content in combination with the integration of previously learned content, interpretation and communication of information effectively, the use of logical reasoning and effective teamwork. Students will explore the possibility of concentrating on these topics for a possible career in life while seeing what they are truly capable of.

COMPUTER SCIENCE

ICS INTRODUCTION TO COMPUTER SCIENCE

Grade: 8
Prerequisite: None

In this course students will be learning how the basics of Computer Science. They will accomplish this by creating a Course Webpage that displays their ability to create projects using their newly developed skills in the use of programming IDE's and apps from Google Suite, to collaborate with their peers by evaluation projects and problems, and to communicate the importance of digital security and the practical use of computers and other technology.

STUDY SKILLS

STUDY SKILLS

Grade: 7
Prerequisite: None

This course is designed to enhance students' organizational, study, and test taking skills. Students will apply these skills to their current subjects/assignments, as well as taking notes in class and from textbooks. By improving these skills, students are given tools for success in school and everyday life.

CAREERS

NAVIANCE

Grade: 8

Prerequisite: None

This course is designed to expose students to possible career paths and the necessary steps to achieve career paths of interest. The class will use the Naviance curriculum to explore different careers, connect to career clusters, hear from leaders in different fields, and begin to imagine their own futures.