



COVENANT CHRISTIAN
HIGH SCHOOL

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Covenant Christian High School Course Descriptions | Academic Year of 2022-2023 |

Algebra II: 1 credit hour/year

Teacher: Kris Grigas

Course Description:

This is a second year algebra course that reinforces topics taught in Algebra 1 and introduces some new, exciting topics. Topics covered include Functions & relations, Linear functions, Systems of linear equations & inequalities, Quadratic functions, Exponential & logarithmic functions, Rational algebraic functions, Irrational algebraic functions, Quadratic relations & systems (circles, ellipses, hyperbolas, parabolas), Complex numbers, Trigonometric & circular functions, Properties of trigonometric and circular functions, and Triangle problems. Life applications are included in the course to help students understand how to apply algebra.

Textbooks:

Algebra and Trigonometry: Functions and Applications by Paul Foerster: ISBN 9780131657106
Solutions are provided, but if you want the solutions manual, it's Solutions for Algebra and Trigonometry by Paul Foerster: ISBN: 0201252864

Algebra 1: 1 credit hour/year

Teacher: Kris Grigas

Course Description:

This is a first year algebra course in which you will learn to reason symbolically. The key content involves writing, solving, and graphing linear and quadratic equations, including systems of two linear equations in two unknowns. Quadratic equations are solved by factoring, completing the square, graphically, or by application of the quadratic formula. The course also includes study of monomial and polynomial expressions, negative numbers, exponents, functions, rational expressions, radical expressions. Algebraic skills are applied in a wide variety of problem-solving situations. Algebra 1 lays the foundation for all higher mathematics and successful completion of this course prepares a student for high school geometry or algebra 2.

Textbooks:

Algebra I: Expressions, Equations, and Applications, Paul A. Forester (Any printing 1990 or later will work.): ISBN 9780201860948

Solutions Manual for Algebra I Expressions, Equations, and Applications, Paul A. Forester: ISBN 9780201861006

Geometry: 1 credit hour/year

Teacher: Meg Wang

Course Description:

Geometry is a branch of mathematics that deals with the understanding of the world around us by using measurement, properties, and relationships of points, lines, angles, surfaces, and solids. This course covers traditional high school Euclidean geometry – which is a mathematical system where we assume a small set of truths (axioms) and from them we deduce through logic many other propositions (theorems). This course emphasizes the concept of proofs, but in a reachable way that helps the student learn both logic and geometrical mathematics. Topics covered include congruence, inequalities, transformations, area, and trigonometry. A solid understanding of geometry prepares a student for further mathematical study and can increase the appreciation of our world and our Creator.

Textbooks:

Geometry 3rd edition, Harold R. Jacobs: ISBN: 0716743612

Teacher's guide to Geometry: lesson plans, resources, and answers to exercises 3rd edition, Harold R. Jacobs: ISBN: 9780716704607

Pre-Algebra: 1 credit hour/year

Teacher: Meg Wang

Pre-Algebra Textbook (Revised) Fourth Edition, Abeka, ISBN: 31915501; Solution Key (Revised) ISBN: 9780000319203; Pre-Algebra Quiz and Test Student Book (Revised) ISBN: 9780000319227

Chemistry: 1 credit hour/year

Teacher: Tom Bilbro

Course Description:

In this course we learn that all of the material world is interconnected by the basic building blocks and predictable laws governing matter. This allows students to begin to understand how the foundation of earth, space, and life processes are governed by the attractive forces of atoms and molecules. The study of chemistry inspires awe and reverence toward the complexity and elegance of creation and demonstrates something of the character of the Creator.

Textbook: Chemistry published by Pearson in 2017; ISBN: 9781323205907.

Introduction to Programming and Computer Science: 1 credit hour/year

Teacher: Derek Wilson

This course makes use of Carnegie Mellon University's CS Academy program. Their CS1 is a hands-on curriculum and set of tools that allow students to learn programming in python through practical graphical exercises and creative expression. We will explore concepts in logic, mathematics, computer science and software engineering with an eye toward how God is reflected in technology and how we can use these tools to glorify and enjoy Him.

History (Medieval Period): 1 credit hour/year

Teacher: Sean Hill

Course Description:

This course spans the era from the Fall of Rome to the Renaissance. Students will be able to characterize the major movements, events, historical figures, and patterns of this period including Late Antiquity, the splintering of the Western Roman Empire, Byzantium, the rise of Islam, Monasticism, the Holy Roman Empire, the High Middle Ages, Scholasticism, Christian mysticism, the Black Plague and its effects, the Great Schism, the relationship between church and state, feudalism in Europe and East Asia, the Renaissance, and the Age of Exploration.

This course examines literature, art, political struggles, histories, philosophies, and the perpetual human struggle to find truth. This is a primary source-based curriculum. Every week, we will read contemporary accounts of historical events, personal letters, official court documents, religious texts, poetry, and visual art in our work to understand what things were like in the times and places we study.

Literature (Medieval Period): 1 credit hour/year

Teacher: Sean Hill

Course Description:

This course spans the era from the Fall of Rome to the Renaissance. This course is designed as a companion to History (Medieval Period), on which it relies for background information about the cultures and people who composed the texts we are studying.

Through in-class writing assignments and weekly essays, students will learn and practice the skill of writing for various purposes such as persuading, presenting the results of research, and creative writing. Students will learn and practice the skill of classroom debate and discussion (both in leading and participating). Students will also learn to analyze and discuss abstract ideas, interact with primary and secondary sources, and connect new information with known information.

Textbooks:

Beowulf. Translated by Seamus Heaney. ISBN-13: 978-0393320978

Snori Sturluson, *The Prose Edda* (Everyman Library Edition). Translated by Anthony Faulkes. ISBN-13: 978-0460876162

The Saga of the Volsungs. Translated by Jackson Crawford. ISBN-13: 978-1624666339

Chretien de Troyes, *Arthurian Romances*, Translated by William Kibler and Carleton Carroll. ISBN-13: 978-0140445213

William Langdon, *Piers Plowman*. Translated by J.F. Goodrich. ISBN-13: 978-0140440874

Geoffrey Chaucer, *The Canterbury Tales*, Norton Critical Edition. ISBN 13: 978-0393925876 [Note: while any original language edition of the Canterbury tales will do, the Norton provides helpful glosses and notes as the students become acquainted with reading Middle English.]

Murasaki Shikibu, *Genji & Heike: Selections from the Tale of Genji*. Translated by Helen Craig McCullough. ISBN-13: 978-0804722582 [Used copies are recommended to save money.]

Dante Alighieri, *The Divine Comedy*. Translated by John Ciardi. ISBN 13: 978-0451208637 [We will read excerpts from all 3 sections of the Divine Comedy.]

Sir Gawain and the Green Knight, Pearl, Orfeo. Translated by J.R.R. Tolkien ISBN-13: 978-0358652977

Freshmen:

Flowers, Nancy. *Vocabulary from Classical Roots*, Book A, ISBN 13: 978-0838822524

Sophomores & Juniors:

Flowers, Nancy. *Vocabulary from Classical Roots*, Book B, ISBN 13: 978-0838822548

Physical Education .5 credit hour/year

Teacher: Sean Hill

Course Description:

Our goal is to educate the whole student in spirit, mind, and body. Since the body is the temple of the Holy Spirit (1 Cor 6:19-20), we aim to teach students to care for their bodies and provide practice in doing so. Just as God dwelled with his people in the wilderness through the tabernacle and later the temple, so we desire to treat our bodies as living houses of the Holy Spirit, the nourishment of which constitutes a form of worship. We believe in the resurrection of the body and that our glorified bodies will be real and physical, though the difference between our earthly and glorified bodies will be like the difference between a seed and its tree (1 Cor 15:36-37). Thus, we should not malign or neglect our earthly bodies, but care for and build them up. The Physical Education program has two core elements: cardiovascular workouts that raise students' endurance/physical literacy and playing sports together so that students know how to communicate and play on a team.