

GENESEE CHRISTIAN SCHOOL
Online Course Catalog



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*indicates classes available for Juniors (11th grade)

GCS Online Courses

11th & 12th Grade Class Offerings:

Full Year Classes –

**Available for 11th Grade*

***American Sign Language I**

Two Semesters; Prerequisite: None.

In this course, students are introduced to the fundamental concepts of American Sign Language. Students explore vocabulary, grammar, and conversational skills using basic signing and fingerspelling techniques, and are exposed to activities and exercises that help them understand the culture of deaf and hard-of-hearing people. The goal of Sign Language I B (the 2nd semester) is for the student to become a confident signer by mastering American Sign Language grammar and building vocabulary. Lessons incorporate the various important components of signs including handshape, position, movement, palm orientation, and non-manual markers. The student's vocabulary is strengthened by studying special categories such as lexicalized signs, classifiers, and topic-related signs. The student will learn to translate from Standard English into American Sign Language gloss. Videos and interactive websites provide abundant practice. A unit on Deaf Culture and Community provides a good perspective and context for practicing American Sign Language.

American Sign Language II

Prerequisite: Successful completion of ASL I

ASL II is a continuation of the study of ASL. The first semester of this course includes vocabulary, word concepts, multiple meaning signs and an introduction to Interpreting. During the second semester, students will continue building their vocabulary, with a focus on expressive and receptive skills, to help students gain confidence and clarity in communication. Interaction with members of the Deaf community in both directed and non-directed activities will be required.

***Consumer Math**

Consumer Math Two Semesters Prerequisite: Algebra II

In this course, the student will learn that money is lost or gained depending upon the information a consumer has to help him make informed decisions. Retailers, banks, and credit card companies may not provide consumers with all the information they need to make good decisions. By the end of this course, the student will understand the history of money, define fixed costs and discretionary spending, understand the importance of

savings, and recognize the dangers of debt. This course will ask the student to look hard at his financial choices including spending patterns, purchasing motivations, and how to make some difficult decisions. In the second semester, students will continue to learn how to make good financial decisions. Retailers, banks, and credit card companies may not provide consumers with all the information they need to make good decisions. By the end of this course, the student will differentiate between secured and unsecured debt, learn how to create a budget, examine a credit report, and discover the best way to increase income and decrease expenses. This course will provide the student with the skills to make good financial decisions

Environmental Science

Prerequisite: None

Environmental Science offers students the opportunity to understand the concepts fundamental to ecology and measures to prevent damage to the environment. Lessons in the A course review the scientific method, discuss biodiversity, and review earth processes, including the rain and carbon cycles. Students take a detailed look at the various types of pollution and study how to safeguard resources. In the second semester of Environmental Science, students learn about environmental programs and policies, including waste management and conservation. Students study the effect of environmental organizations as well as government agencies charged with protecting the environment. The final unit examines technology and its impact on the environment; topics include energy production, modern agriculture, and public land management.

Forensic Science I

Prerequisite: Biology

Fingerprints. Blood spatter. DNA analysis. The world of law enforcement is increasingly making use of the techniques and knowledge from the sciences to better understand the crimes that are committed and to catch those individuals responsible for the crimes. Forensic science applies scientific knowledge to the criminal justice system. This course focuses on some of the techniques and practices used by forensic scientists during a crime scene investigation (CSI). Starting with how clues and data are recorded and preserved, the student will follow evidence trails until the CSI goes to trial, examining how various elements of the crime scene are analyzed and processed..

***French I**

Prerequisite: None

This course introduces students to basic vocabulary and grammar. Lessons and assignments focus on simple speaking and reading, comprehension, and composition. Students also study the history and culture of French-speaking peoples around the world.

***German I**

Prerequisite: None

Students use discussions and other activities to learn how to speak, read, write, and understand basic German. Simple grammar, punctuation, and spelling are reinforced with interactive lessons, games, and activities. Students also study German culture and history, as well as the influence of the German language.

***Personal Finance**

Prerequisite: Algebra I and Geometry.

Math of Personal Finance focuses on real-world financial literacy, personal finance, and business subjects. Students apply what they learned in Algebra I and Geometry to topics including personal income, taxes, checking and savings accounts, credit, loans and payments, car leasing and purchasing, home mortgages, stocks, insurance, and retirement planning. They then extend their investigations using more advanced mathematics, such as systems of equations, when studying cost and profit issues; exponential functions when calculating interest problems.

Half-Year Classes

**Available for 11th Grade*

Anatomy and Physiology

Prerequisite: Biology

Students learn about anatomical structures and physiology of the human body. Body systems are discussed in terms of how each participates in homeostasis of the body. Students learn about selected major pathologies, including causes, symptoms, diagnostic procedures, and treatments, as well as common changes that occur through the life span.

AP U.S. Government and Politics

Prerequisite: U.S. History.

AP U.S. Government and Politics studies the operations and structure of the U.S. government and the behavior of the electorate and politicians. Students will gain the analytic perspective necessary to critically evaluate political data, hypotheses, concepts, opinions, and processes. Along the way, they'll learn how to gather data about political behavior and

develop their own theoretical analysis of American politics. They'll also build the skills they need to examine general propositions about government and politics, and to analyze the specific relationships between political, social, and economic institutions. The equivalent of an introductory college level course, AP U.S. Government and Politics prepares students for the AP exam and for further study in political science, law, education, business, and history.

***Career in Criminal Justice**

Prerequisite: None

Students explore law enforcement, the courts, and the correctional system. They study what crime is, how crime is measured, and theories of crime causation. They also examine issues and challenges within the criminal justice system and its future directions.

Creative Writing

Prerequisite: None.

For many hundreds of years, literature has been one of the most important human art forms. It allows us to give voice to our emotions, create imaginary worlds, express ideas, and escape the confines of material reality. Through creative writing, we can come to understand ourselves, and our world a little bit better. This course provides students with a solid grounding in the writing process, from finding inspiration to building a basic story to using complicated literary techniques and creating strange hybrid forms of poetic prose and prose poetry. By the end of this course, students will learn how to discover their creative thoughts and turn those ideas into fully realized pieces of creative writing.

Health Science: The Whole Individual

Prerequisite: None.

Will we ever find a cure for cancer? What treatments are best for conditions like diabetes and asthma? How are illnesses like meningitis, tuberculosis, and the measles identified and diagnosed? Health sciences provide the answers to questions such as these. In this course, students will be introduced to the various disciplines within the health sciences, including toxicology, clinical medicine, and biotechnology. They will explore the importance of diagnostics and research in the identification and treatment of diseases. The course presents information and terminology for the health sciences and examines the contributions of different health science areas.

***High School Critical Thinking and Study Skills**

Prerequisite: None

In this course, the student will implement thinking strategies, learn test-taking strategies, time management and organization skills, build verbal competence, and sharpen his mathematics reasoning. Specifically, the student will learn strategies for acquiring, storing, and retrieving knowledge, and strategies for linking new information with prior knowledge.

***Introduction to Business**

One Semester; Prerequisite: None.

Students explore business in global society, learning terminology, concepts, systems, strategies, and current issues. Topics include the business environment, ethics, entrepreneurship and global business, management, marketing, production, information systems, and financial elements.

***Introduction to Law**

Prerequisite: None.

Introduction to Law will offer students the opportunity to explore all aspects of the United States legal system, from its fundamental ideas to its guiding principles. The emphasis throughout the course will be to examine the reasons why a society and its members must adhere to the legal system while thinking critically and evaluating tenets of the law. This course serves as the prerequisite for Criminal and Consumer Law.

Java Programming I

Prerequisite None.

The student will explore programming fundamentals, basic problem solving, variables and assignments, math, conditionals, control flow, methods and functional abstraction, objects and data abstraction, inheritance and polymorphism, exception handling, graphical user interfaces, and external libraries. The student will use Sun's Java™ programming language throughout this course.

Java Programming II

Prerequisite: None.

The student will explore programming fundamentals, linked lists, stacks, queues, binary trees, generics and interfaces, an introduction to Big O notation, Java™ collections framework, analyzing complexity and implementing various sorting algorithms, graph applications, and advanced GUIs and graphics

Leadership and Supervision in Business

Prerequisite: None

This course examines the roles and responsibilities of supervisors in private, service, and public organizations. The student will gain an understanding of the expanded scope of supervisory responsibilities for business personnel ranging from first-time, first-line supervisors to top-level executives.

***Life Management Skills**

Prerequisite: None.

This course guides students as they deal with important decisions by providing them with the facts they need. Students will learn how to deal with real issues that impact their lives every day, such as nutrition, substance abuse, stress, and their health.

***Reading for College Success**

Prerequisite: None.

This course will provide students with the necessary tools to become successful in both their academics and in the work place. Reading is a skill vital to effectively take notes, summarizing the main idea, and fact from opinion. This course will empower students to achieve their goals in higher education and in the career of their choosing. Please note: This course is intended for 12th graders whose college placement scores are below the established cut score indicating that they are not “college-ready” in Reading (CPT, below 83; SAT, below 440; ACT, below 18).

Sports Management

Prerequisite: None.

This course will introduce you to the fast-growing field of sports management. You will explore topics such as sports marketing, branding, ticket sales, public relations, broadcasting, and breaking into the business of sports management. This course will also discuss the role of sports in society and the importance of an ethical approach to sports management.

Veterinary Science

Prerequisite: None.

As animals play an increasingly important role in our lives, scientists have sought to learn more about their health and well-being. Taking a look at the pets that live in our homes, on our farms, and in zoos and wildlife sanctuaries, this course will examine some of the common diseases and treatments for domestic animals. Toxins, parasites, and infectious diseases impact not only the animals around us, but at times we humans as well! Through

veterinary medicine and science, the prevention and treatment of diseases and health issues is studied and applied.