

2012-2013

CURRICULUM

GUIDE



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Tualatin, Oregon 97062
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Horizon Christian High School Campus

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Graduation Requirements

Subjects	Class of 2013 and Beyond	
	Standard	Scholar
English	4.0	4.0
Math	3.0	4.0
Science	3.0	4.0
Soc. Sci.	4.0	4.0
Physical Ed	1.0	1.0
Health	1.0	1.0
*SL, Art, *PTE	3.0	NA
Art, *PTE	NA	1.0
Second Lang.	NA	3.0
Spiritual Formation (Includes Career)	4.0	4.0
Electives	5.0	2.0
Totals	28	28

***SL - Second Language**

***PTE – Professional Technical Education**

Scholar Graduate:

Scholar Graduate is for the highly motivated student. Additional core classes in Math, Science, and Second Language distinguish the Scholar Graduate from a regular Horizon Graduate.

International Students:

International Students may use one Native Language credit as an English credit towards graduation requirements.

ENGLISH LANGUAGE ARTS GRADUATION REQUIREMENTS

The English program consists of full year courses at each grade level.

- Four full years (eight semesters) of English are required for a diploma.
- Students are required to take English 9, 10, 11, and 12 in sequence (one per year).
- A student may not take two required English classes simultaneously without prior approval.
- Students may take Honors English 10, 11, or 12 upon approval of instructor.

Required Courses

English 9
English 10 or Hon Eng 10
English 11 or Hon Eng 11
English 12 or Hon Eng 12

Elective Courses

Yearbook
Journalism
Writing for College/Research Writing

English 9

Full Year	Grade: 9
Prerequisite:	None
Credit:	1.00
Grad. Req.:	English/L. A. (Gr. 9)
Textbook:	Writing & Grammar 9, BJU Press; Glencoe Literature: The Reader's Choice; Sadlier- Oxford, Grammar for Writing

As part of the four-year English graduation requirement, this freshman level, yearlong class focuses on the following key components: literature, grammar, composition, and reading. Students will learn the Modern Language Association (MLA) format, which is used in most undergraduate programs nationwide. English 9 includes the following:

1. The short story- reading, understanding elements, writing
2. Nonfiction- memoirs, biographies
3. Poetry- reading, understanding elements, writing all genres of poetry
4. Drama- reading, writing
5. Epic and Myth- understanding the idea of “heroic” character
6. Genre fiction- Christian literature and fantasy

7. Review of basic elements of grammar- sentence structure, parts of speech, spelling and vocabulary
8. Writing focuses on quick writes to prepare for essay exam questions, creative writing, poetry, and fundamental elements of persuasive writing
9. Public speaking- will learn the basics of persuasive and informational speeches

English 10

Full Year	Grade: 10
Prerequisite:	Sophomore Standing
Credit:	1.00
Grad. Req.:	English/L. A. (Gr. 10)
Textbook:	Sadlier-Oxford: Grammar For Writing; Literature & Language: Grammar & Usage, McDougall-Littell

This year-long course strengthens student knowledge of various elements of literature as well as grammar and composition skills. Students begin a more in-depth study of essay writing. Students will learn the Modern Language Association (MLA) format, which is used in most undergraduate programs nationwide. The class includes the following:

1. Literary criticism- by historical, artistic, and biographical approach
2. Oral tradition
3. Fiction- short story, novels, and novel excerpts
4. Nonfiction- memoirs, biographies, speeches
5. Poetry- narrative, ballad, epic
6. Literary elements- plot, setting, character, development, theme, voice
7. Literary language- symbolism, diction, figures of speech, etc.
8. Basic grammar skills continue to be reinforced, as well as spelling and Vocabulary
9. Writing focuses on quick writes, essay questions, creative writing, and research writing.

By the end of the 10th grade, students should meet or exceed Oregon Grade-Level Standards for English Language Arts. These may be found by visiting the Oregon Department of Education website at www.ode.state.or.us

English 11

Full Year	Grade: 11
Prerequisite:	Junior Standing
Credit:	1.00
Grad. Req.:	English/L.A. (Gr. 11)
Textbook:	The Reader's Choice, Glencoe Literature

This year-long course explores different styles of American literature from the 1600s to the present. Writing and grammar will continue to receive emphasis in this class, as will SAT and ACT preparation. Students will learn the Modern Language Association (MLA) format, which is used in most undergraduate programs nationwide. The class includes the following:

1. Early American Period
2. American Romanticism
3. The Civil War Era
4. Regionalism and Realism
5. Beginnings of the Modern Age
6. Twenty-First Century

English 12

Full Year

Grade: 12

Prerequisite:

Senior Standing

Credit:

1.00

Grad. Req.:

English/L.A. (Gr. 12)

Textbook:

Teacher selects literature from a variety of texts

This year-long course is a survey from Anglo-Saxon to modern literature. Students will also write practice essays, college applications, and a job resume'. The year will culminate in the Senior Project which is a comprehensive presentation that includes inquiry, the research process and use of a wide variety of primary and secondary resources. Students are asked to distill information to investigate questions and topics, then gather and synthesize that information in such manner that will allow them to communicate in written, visual, and oral form. Students will learn the Modern Language Association (MLA) format, which is used in most undergraduate programs nationwide. The class will also include the following:

1. Anglo-Saxon period
2. The Renaissance
3. Puritanism to the Enlightenment
4. The Romantics
5. The Victorian Age
6. The Modern Age

Honors English 10, 11, 12

Full Year	Grade: 10, 11, 12
Prerequisite:	Instructor Approval
Credit:	1.00
Grad. Req.:	English/L.A.
Textbook:	Glencoe Literature & Select Novels

This course is designed for highly motivated students who wish to develop advanced skills in analysis and interpretation of literature. Honors English courses are primarily distinguished from standard English courses by qualitative requirements rather than quantitative means, however a large scope of material is covered, with greater depth, scope, pacing, and reflection than an ordinary English class. Students will be involved in critical analysis and thinking, with increased exploration of content involving research, application, synthesis, and constructive criticism.

Coursework covers a variety of genres, writers, literary devices, and time periods associated with the development of literature, as prescribed by the State of Oregon for each grade level. Sophomores will study world literature, juniors will study American literature, and seniors will study British literature. Students will learn the Modern Language Association (MLA) format, which is used in most undergraduate programs nationwide.

Writing for College/Research Writing

Full Year	Grade: 12
Prerequisite:	Instructor Approval
Credit:	1.00
Grad. Req.:	Elective
Textbook:	Various

This course will dovetail with the senior project writing piece. Students will continue to develop research skills and writing skills to further prepare them for college. MLA format will be stressed. Students will complete an 8-10 page research paper.

Yearbook

Full Year	Grade: 9, 10, 11, 12
Prerequisite:	Consent of Instructor
Credit:	1.00
Grad. Req.:	Elective

The Yearbook class is responsible for putting together the yearbook. Creative, organized, outgoing, and disciplined students do well in this class. Students must have a strong work ethic in order to be considered for admittance. Each student is responsible for designing their assigned pages, which develop the theme for the year. Self-motivation and discipline is encouraged. Deadlines are essential. Photographers are encouraged to join the class.

Journalism

Full Year	Grade: 9, 10, 11, 12
Prerequisite:	None
Credit:	1.00
Grad. Req.:	Elective
Textbook:	The Synonym Finder; Writers Express; Writers Inc; Checking Your Grammar

Students looking for a challenge with consistent feedback will enjoy the journalism class. Participating students must be self-motivated and disciplined as they will be required to meet deadlines for “The Hawk” student newspaper. Included in the class will be:

1. Basic writing skills
2. Journalism writing skills
3. Photo-journalism
4. Sports writing
5. Art and music writing
6. Interviewing techniques
7. Objectivity and bias
8. Computer layout
9. Editing and proofreading
10. Organization
11. Clarity and Accuracy

SOCIAL STUDIES

GRADUATION REQUIREMENTS

Four years (eight semesters) of Social Studies are required for a Horizon diploma.

- 9 Grade- Ancient World History
- 10th Grade- Modern World History
- 11th Grade- US History
- 12th Grade- Economics and Government

Required Courses

Ancient World History
Modern World History
US History
Economics
Government

Elective Courses

Global Issues
Psychology

Ancient World History

Full Year	Grade: 9
Prerequisite:	None
Credit:	1.00
Grad. Req.:	Ancient World History
Textbook:	World History for Christian Schools, BJU Press

This is a 9th grade, year-long class that introduces students to the social science of history. It also introduces students to a method of investigation and understanding about how the world has developed politically, economically, and socially. The course will start from the creation of the world and run up to approximately the Renaissance time period covering about 5,500 years. The class will be taught from a Christian perspective but will be compared to the secular version of history to find discrepancies and ways to deal with so called contradictions with biblical principles. Some of the things that will be covered are the creation story, similar stories from around the world, and the evolutionary viewpoint. The class will look at early man, towns and cities, and empire building, as well as different regions of the world, how those regions interact with one another, and what kind of influence they had upon each other. The main purpose of this class is to help students see the ways in which God works through people and nations for His plan and glory.

Modern World History

Full Year	Grade: 10
Prerequisite:	Ancient World History
Credit:	1.00
Grad. Req.:	Modern World History
Textbook:	World History for Christian Schools, BJU Press

This year-long class begins with the Age of Exploration, 1400-1800. Global change as a result of these explorations and the exchange of ideas are the key concepts to be discussed and understood. The class continues with the development of democracy in America, nineteenth century progress, the age of imperialism and how imperialism set the stage for conflicts of the twentieth century. Twentieth-century transformations around the globe are covered including but not limited to, WWI, WWII, the Korean War, Vietnam and Desert Storm. The Cold War, the fall of Communism in Russia, the colonial independence movements in Africa, Asia, and South America, and the further development of democracy into the twenty-first century will also be covered. The class concludes with a discussion of twenty-first century global interdependence from a political, economic, and social perspective along with a close up look at terrorism as a threat to developed and developing democracies world-wide.

1. Analyze major political systems of the world.
2. Analyze the concepts of political power, authority, conflict, and conflict management.
3. Understand and use geographic information.
4. Use maps and other geographical tools and technologies to understand history.
5. Compare and analyze physical and human characteristics of places and regions.
6. Analyze the causes of human migration.
7. Understand factors that influence changes in world and regional population development that may or may not lead to conflict.
8. Understand how differing points of view, self-interest, and global distribution of natural resources play a role in conflict over territory.
9. Identify and analyze diverse perspectives on and historical interpretation of historical issues and events from a Christian worldview.
10. Understand the importance and lasting influence of significant eras, cultures, developments, and ideas in human history from a Christian worldview.

US History

Full Year	Grade: 11
Prerequisite:	Modern World History
Credit:	1.00
Grad. Req.:	US History
Textbook:	US History for Christian Schools, BJU Press

This junior level year-long course is an introductory survey of American History. The course will include the following topics;

1. A review of groups living in the Western Hemisphere prior to European exploration along with an analysis of the impact of early European exploration on Native Americans.
2. An understanding of the American colonial experience.
3. An understanding of how individuals, issues, and events changed, or significantly influenced the course of U.S.
4. Understanding the effects of 19th century reform movements on American life in the early 20th century.
5. Understanding the causes of the Great Depression and how it redefined the role of government in response to the economic problems of the time.
6. Understanding the causes of World War II and the events, circumstances, and ideas of the time.
7. Analyzing the post-WWII world and the causes and consequences of cold-war politics.
8. Analyzing the causes of terrorism in the late 20th and early 21st centuries and discussing America's response to terrorists both foreign and domestic.
9. Reevaluation of the American Promise through an understanding of Christian worldview and God's promise to mankind as written in the Bible.

Economics

1 Semester

Grade: 11, 12

Prerequisite:

US History

Credit:

.500

Grad. Req.:

Social Studies

Textbook:

Economics: Principles & Practices, Glencoe Junior Achievement Student Workbook; Economics, Work & Property, Abeka Books

This is a semester long introductory course that explores both micro and macroeconomics. The class examines how a market economy functions as a system and compares with other economic systems. Students will study the following:

1. Understand how supply and demand respond to changes in economic circumstances.
2. Understand how to compare and contrast the allocation of goods and services in market and command economies.
3. Understand how people make decisions by analyzing economic conditions.
4. Understand how to evaluate different economic systems, comparing advantages and disadvantages of each.
5. Analyze how the government can affect the national economy.
6. Analyze how money functions in the banking system.
7. Evaluate the risks and benefits to the use of credit.
8. Understand how a Christian worldview looks at economics and economic systems.

Government

1 Semester	Grade: 11, 12
Prerequisite:	US History
Credit:	.500
Grad. Req.:	Social Studies
Textbook:	American Government, BJU Press

This is a semester course that encompasses the foundations of our government, the individual branches of federal and state government, constitutional freedom and how citizens can participate in their government. After completing this class, students should:

1. Understand the Constitution of the United States as a means of resolving conflicts between state and federal law.
2. Understand the relationships between local, state, and federal government.
3. Understand the rights of individuals and those laws and agencies that protect those rights.
4. Understand the responsibilities of U.S. citizens and what an individual can do to meet those responsibilities
5. Understand how government is influenced and changed by support and dissent of individuals, groups, and international organizations.
6. Understand how nations interact with each other, how events and issues in other countries can affect citizens in the United States, and how actions and concepts of democracy and individual rights of the United States can affect other peoples and nations.
7. Know how the concepts of political power, authority, conflict, and conflict resolution is all viewed from a Christian worldview.

Global Issues

Full Year	Grade: 11, 12
Prerequisite:	None
Credit:	1.00
Grad. Req.:	Elective
Textbook:	Variety of printed and electronic materials

The class is a year long class that examines current events and issues as they are developing in the present day. The class also includes a discussion and understanding of key cultural, geographical, political, historical, and economic concepts that may explain the many conflicts that exist in today's globally interdependent world. Students will also learn to analyze current issues from a Christian "worldview" and how alternative "worldviews" differ and lead to conflict. Students will learn about the key social structures that exist in any culture, especially the religious groups that exist within cultural and geographic regions.

Psychology

Full Year	Grade: 11, 12
Prerequisite:	None
Credit:	1.00
Grad. Req.:	Elective
Textbook:	Introduction to Psychology

This year long class studies psychology as defined as the systematic and scientific study of human behavior and mental process. In addition to the major schools of psychology (biological, cognitive, behavioral, psychodynamic, and cross-cultural), the class also includes the examination of human behavior and mental processes from a Christian worldview. People's sin nature and need for redemption are discussed in light of current psychological theory. Christian counseling and therapy are presented as the preferred method for therapy. Topics presented are:

1. History of Psychology
2. Research Methods
3. Brain and Nervous System
4. Sensation/Perception
5. States of Consciousness
6. Classical/Operant Conditioning, Learning, Memory
7. Child, Adolescent, Adult Development
8. Motivation/Emotion
9. Personality
10. Thought, Language, Intelligence
11. Stress and Health
12. Psychological Disorders
13. Treatment for Mental Disorders
14. Social Psychology

MATHEMATICS

GRADUATION REQUIREMENTS

The Math department consists of full year courses at various ability levels.

- Three years (six semesters) of Math are required for a diploma and for entry into the Oregon system of higher education.
- Beginning with the freshman class of 2014, 3 years at Algebra 1 level and above is required for entry into the Oregon system of higher education.
- Sequence of difficulty level: Business Math, Algebra 1, Geometry, Algebra 2, Honors Algebra 2, Trigonometry, Pre-Calculus, Calculus and Statistics.
- Pre-Calculus, Calculus & Statistics are Dual Credit Courses through PCC.

Math Courses

Business Math
Algebra 1
Geometry
Algebra 2
Honors Algebra 2
Trigonometry
Pre-Calculus
Calculus
Statistics

Business Math

Full Year	Grade: 9, 10, 11, 12
Prerequisite:	None
Credit:	1.00
Grad. Req.:	Math
Textbook:	Business Math, Thomson South-Western

Students interested in business-related careers and consumer applications will find this course useful. Topics will include the mathematics of business operations and record keeping, banking, purchasing, and sales. Situations involving discounts, commissions, interest, taxes, and depreciation will be studied. Topics also include consumer applications. Business Math will allow the student to learn business and consumer concepts they will use throughout their lives. The student will be involved in learning how to communicate information mathematically, solve problems from a real-world context and justify the solutions to problems. Problem solving applications will be used to analyze and solve business problems for such areas as taxation; savings and investments; payroll records; cash management; financial statements, purchases; sales; inventory records; and depreciation.

Algebra 1

Full Year	Grade: 9, 10, 11, 12
Prerequisite:	None
Credit:	1.00
Grad. Req.:	Math
Textbook:	Algebra 1, McDougal-Littell

This year-long course is a traditional first algebra course laying a critical foundation on which future math courses are based. Topics include linear equations and inequalities, algebraic functions (linear, quadratic, and exponential), the graphs of lines and curves, algebraic systems, and polynomials.

Geometry

Full Year	Grade: 9, 10, 11, 12
Prerequisite:	Algebra 1
Credit:	1.00
Grad Req.:	Math
Textbook:	Geometry, McDougal -Littell

This yearlong course is a traditional geometry course for students who have successfully completed Algebra 1. Topics covered include reasoning and proof, parallel and perpendicular lines and planes, angles and triangles, congruencies, similarity, inequalities, areas, circles, spheres, construction, plane and coordinate geometry, and applications of algebra to physical situations.

Algebra 2

Full Year	Grade: 9, 10, 11, 12
Prerequisite:	Algebra 1(C or better)
Credit:	1.00
Grad. Req.:	Math
Textbook:	Algebra 2, McDougal-Littell

This yearlong course contains the math that most colleges and universities expect student to have studied. Students will extend their understanding of functions, number properties, graphs, equations, inequalities, trigonometry, polynomials, exponential and logarithmic functions. Students will cover topics covered on the ACT and SAT tests. Graphing calculators are used throughout the course.

Honors Algebra 2

Full Year	Grade: 9, 10, 11, 12
Prerequisite:	Algebra 1(C or better) and instructor approval
Credit:	1.00
Grad. Req.:	Math
Textbook:	Algebra 2, McDougal-Littell

This yearlong course contains the math that most colleges and universities expect student to have studied. Students will extend their understanding of functions, number properties, graphs, equations, inequalities, trigonometry, polynomials, exponential and logarithmic functions. Students will cover topics covered on the ACT and SAT tests. Graphing calculators are used throughout the course.

Trigonometry

Full Year:	Grade: 9, 10, 11, 12
Prerequisite:	Algebra 2
Credit:	1.00
Grad. Req.:	Math
Textbook:	Algebra 2, McDougal-Littell

This is a continuation of Algebra 2. Topics covered would include Exponential and Logarithmic Functions, Rational Functions, Trigonometric Ratios and Functions, Trigonometric Graphs and Equations, and Probability Statistics.

Pre-Calculus

Full Year	Grade: 9, 10, 11, 12
Prerequisite:	Algebra 2 (C or better)
Credit:	1.00 Weighted, up to 6 credits per year at Portland Com. Coll.
Grad. Req.:	Math
Textbook:	Advanced Math, McDougal-Littell

This yearlong course is designed to prepare students to take Calculus the following year. Topics covered include equations and inequalities, functions (quadratic, exponential, logarithmic, polynomial, rational and trigonometric) sequences, series, probability, vectors, matrices, and statistics. Students who receive an A or B as a final grade will receive transferable college credit through Portland Community College (Math 111 and Math 112). This is a weighted course for those students receiving a C or higher. Graphing calculators are used throughout the course.

Calculus

Full Year	Grade: 10, 11, 12
Prerequisite:	Pre-Calculus (C or better)
Credit:	1.00 Weighted, up to 6 credits per year at Portland Com. Coll.
Grad. Req.:	Math
Textbook:	Calculus: Concepts 7 Context, Thompson, Brooks & Paul

The curriculum is identical to that offered at Portland Community College in Math 251 and Math 252. Topics in Math 251 include functions, limits, continuity, and differential calculus and its applications. Math 252 includes techniques of integration and application of the integral. Students who receive an A or B as a final grade will receive transferable college credit through Portland Community College. This is a weighted course for those students receiving a C or higher. Graphing calculators are used throughout the course.

Statistics

Full Year	Grade: 11, 12
Prerequisite:	Pre-Calculus (C or better)
Credit:	1.00 Weighted, up to 6 credits per year at Portland Com. Coll.
Grad. Req.:	Math
Textbook:	The Practice of Statistics, Yates, Moore, Starnes

Fall Semester: Topics include displaying data with graphs, numerical descriptions of data, reducing data, elementary probability, probability distributions, and the introduction of confidence intervals. Applications are investigated from science, business, and social science perspectives. Students who receive an A or B as a final grade will receive transferable college credit through Portland Community College. This course is identical to PCC's Math 243 course (Fall), Math 244 course (Spring). This is a weighted course for those students receiving a C or higher. T1-83 or T1-84 Calculator is required.

Spring Semester: Topics include confidence interval estimation; tests of significance including z-tests, t-tests, ANOVA, and chi-square; inference for linear regression. Applications are investigated from science, business, and social science perspectives.

SCIENCE

GRADUATION REQUIREMENTS

The Science department consists of full year courses at various ability levels.

- Three years (6 semesters) of Science are required for a Horizon diploma.
- Sequence of difficulty level: Physical Science, Biology, Conceptual Physics, Honors Biology, Forensics, Chemistry, Anatomy and Physiology and Physics.

Science Courses

Physical Science
Biology
Conceptual Physics
Honors Biology
Forensics
Chemistry
Anatomy & Physiology
Physics

Physical Science

Full Year	Grade: 9, 10, 11, 12
Prerequisite:	None
Credit:	1.00
Grad. Req.:	Science
Textbook:	Physical World, BJU Press

This year-long lab science covers scientific method, measure and properties of matter, classification of matter, atomic structure, periodic table, chemical bonding, energy and motion, electricity and energy sources, sound waves and light. In the lab component of this class, students develop the skill of experimentation, observation, analysis, and use of laboratory equipment.

Biology

Full Year	Grade: 9, 10, 11, 12
Prerequisite:	None
Credit:	1.00
Grad. Req.:	Science
Textbook:	Biology, Glencoe; Biology, Bob Jones University

This year-long lab science course covers scientific method, cell structure and function, genetics and DNA, bacteria, viruses, plants and animals, ecology and biodiversity. In the lab component of this class, students develop the skill of experimentation, observation, analysis, and use of laboratory equipment.

Conceptual Physics

Full Year	Grade: 10, 11, 12
Prerequisite:	Biology
Credit:	1.00
Grad. Req.:	Science
Textbook:	Conceptual Physics, Prentice Hall

This is a year-long lab science course which will give an overview of the scientific study of physics to students with a wide range of background and abilities. Throughout the course, problem solving skills, and lab approaches will be stressed. The following assessments will be used; laboratory experiments with reports, assignments, quizzes, test, films, demonstrations, and projects. This covers many aspects of physics such as:

1. Basic concepts of physics
2. Gathering data, graphing and interpretation
3. Study of solids, liquids, and gases
4. Motion and energy
5. Heat and its properties
6. Electrostatics and electricity
7. Magnetism
8. Waves and sound, light and color
9. Special project

Honors Biology

Full Year	Grade: 9, 10, 11, 12
Prerequisite:	None
Credit:	1.00
Grad. Req.:	Science
Textbook:	Biology, Glencoe; Biology, Bob Jones University

This year-long lab science course covers scientific method, cell structure and function, genetics, DNA structure, replication, protein synthesis, bacteria and viruses, as well as plants and animals. It will also include units of ecology and how living things change and adapt over time. This course goes into more depth and requires quarterly lab reports and a research paper. In the lab component of this class, students develop the skill of experimentation, observation, analysis, and use of laboratory equipment. This course includes 12 additional labs/investigations that help provide a more sophisticated understanding of biological topics.

Forensics

Full Year	Grade: 11, 12
Prerequisite:	Biology
Credit:	1.00
Grad. Req.:	Science
Textbook:	Teacher generated materials

This is a year long lab science course in crime scene investigation. The following assessments will be used; laboratory experiments with written reports, films, DVD's demonstrations, tests, numerous reading and research of crime cases. The course will include the following topics:

1. Observation Skills.
2. Crime Scene and Physical Evidence
3. Hair & Textile Fiber analysis
4. Fingerprint analysis& DNA Evidence
5. Blood and Blood Spatter
6. Glass & Soil Analysis
7. Pollen & Spore Examination
8. Bones-Skeleton
9. Bullets & Firearms (optional)
10. Ink & documentation analysis (optional)
11. Teeth marks & Lip Prints(optional)
12. Shoe prints & Tire marks(optional)
13. Autopsy
14. Mock Scene

Chemistry

Full Year	Grade: 10, 11, 12
Prerequisite:	Biology
Credit:	1.00
Grad. Req.:	Science
Textbook:	Chemistry Matter & Change, Glencoe

This is a year-long lab science course which will give an overview of the study of matter and energy, the use of scientific concepts and mathematics. Throughout the course, problem solving skills and lab approaches will be stressed. The following assessments will be used: laboratory experiments with written reports, assignments, quizzes, tests, films, demonstrations. This course covers the following aspects of chemistry:

1. Introduction to chemistry and Lab Safety
2. Data gathering and interpretation
3. Properties and change of matter
4. Atomic Theory and Structure

5. Periodicity
6. Ionic and Covalent chemical bonding
7. Chemical Reactions
8. Mole and Stoichiometry
9. Gas Laws
10. States of matter and solutions
11. Energy Changes
12. Reaction Rates and Equilibrium
13. Acid, basis and salts
14. Oxidation-reduction reactions

Anatomy and Physiology

Full Year	Grade: 11, 12
Prerequisite:	Biology
Credit:	1.00
Grad. Req.:	Science
Textbook:	Hole's Human Anatomy & Physiology, Prentice Hall

This is a year-long lab science course which covers the main topics of anatomy and physiology. Assessment will include unit exams, laboratory experiments with formal write-ups, projects, DVDs, demonstrations, and hands-on activities. The course will include the following topics:

1. Levels of Organization
 - a. Terminology
 - b. Chemical Basis of Life
 - c. Cells
 - d. Cellular Metabolism
 - e. Tissues
2. Support and Movement
 - a. Integumentary System
 - b. Skeletal System
 - c. Joints of the Skeletal System
 - c. Muscular System
3. Integration and Coordination
 - a. Nervous System
 - b. Endocrine System
4. Transport
 - a. Blood
 - b. Cardiovascular System
 - c. Lymphatic System and Immunity
5. Absorption and Excretion
 - a. Digestive System
 - b. Respiratory System
 - c. Urinary System

6. The Human Life Cycle
 - a. Reproductive System
 - b. Pregnancy, Growth, and Development
 - c. Genetics and Genomics

Physics

Full Year	Grade: 10, 11, 12
Prerequisite:	Biology
Credit:	1.00
Grad. Req.:	Science
Textbook:	Physics: Principles and Problems, Glencoe

This is a year-long lab science course which will give an overview of the basic principles of physics, mathematical analysis of concepts, and their application. The following assessments will be used: laboratory experiments with written reports, assignments, tests, films, demonstrations. The course will include the following topics:

1. Gathering data and graphing
2. Motion, forces, momentum
3. Energy and work
4. Thermal Energy
5. States of Matter
6. Vibrations and Waves
7. Sound
8. Light and Optics
9. Electrostatics, electricity, circuits

SECOND LANGUAGE

GRADUATION REQUIREMENTS

The Second Language department consists of full year Spanish classes offered in sequential order.

- Courses in this department provide credit towards the Fine Arts, Second Language, and Professional Technical Education (PTE).
- A combination of three years is required in Fine Arts, Second Language, or PTE.
- Two years (four semesters) of Second Language is required for entry into the Oregon system of higher education.
- Sequence: Spanish 1, 2, 3, 4

Spanish Courses

Spanish 1
Spanish 2
Spanish 3
Spanish 4

Spanish 1

Full Year	Grade: 9, 10, 11, 12
Prerequisite:	None
Credit:	1.00
Grad. Req.:	Second Language
Textbook:	Spanish for Mastery 1, Valette-Valette

In the first year of study, students will learn basic vocabulary, grammar, and idiomatic expressions. They will converse about school, family, sports and other pastimes and gain a familiarity with many aspects of Hispanic culture through elementary reading as well as classroom projects. At the conclusion of this year-long course, students should be able to converse comfortably in the present tense and hold simple conversations with classmates.

Spanish 2

Full Year	Grade: 10, 11, 12
Prerequisite:	Spanish 1
Credit:	1.00
Grad. Req.:	Second Language
Textbook:	Buen Viaje! Level 2, McGraw-Hill

In the second year of study, students will expand their vocabulary and ability to use different tenses other than present tense: past, imperfect, future and conditional. Students will improve their comprehension and speaking proficiency.

Spanish 3

Full Year	Grade: 11, 12
Prerequisite:	Spanish 2 and Instructor Approval
Credit:	1.00
Grad. Req.:	Second Language
Textbook:	Spanish for Mastery 3, Valette-Valette

In the third year of study, students will concentrate on improving their fluency in Spanish through majority use of the language in the classroom as well as projects and reading. Students will also be exposed to the different dialects throughout the Spanish-speaking world and will increase their knowledge of Spanish literature by reading a variety of short stories, plays, and poems by well-known Spanish/Latino authors.

Spanish 4

Full Year	Grade: 12
Prerequisite:	Spanish 3 and Instructor Approval
Credit:	1.00
Grad. Req.:	Second Language
Textbook:	Galeria De Arte Y Vida Cuadro, Glencoe, McGraw-Hill

In the fourth year of study, students will continue their learning of Spanish grammar and vocabulary and focus on increasing their fluency by reading short novels and discussion.

HEALTH

GRADUATION REQUIREMENTS

- One full year (two semesters) of Health is required to graduate.
- Students may split up the years that they take Health as long as both Health A (Semester 1) and Health B (Semester 2) are completed.

Health (A/B)

Full Year	Grade: 9, 10, 11, 12
Prerequisite:	None
Credit	.500 per semester
Grad. Req.:	Health
Textbook:	Total Health: Choice for a Winning Lifestyle

Health A (Semester 1)

Health class begins with Physical Health. Topics include the introduction to the human body, the study of the eleven systems, the principles of good nutrition, exercise and fitness, and infectious and non-infectious diseases. As well as the role that God plays in our life, how we respect His creation, and how this relates to our health.

Health B (Semester 2)

Health class covers the Mental, Social and Spiritual Health. Topics include stress management and coping skills related to managing emotional peer pressure. Character, convictions and conduct is emphasized this semester to show that living a Christian life is walking in victory and power. Finally, the student is taught to set personal boundaries in their life and the emphasis of what it means to be mature emotionally, socially and spiritually is expressed.

PHYSICAL EDUCATION

GRADUATION REQUIREMENTS

- One year of Weight Training/Athletic PE is required in order to graduate.
- Once requirement is met, all other PE course will be elective courses.
- The Physical Education program consists of semester courses for all grade levels.
- A student may take multiple P.E. classes during any semester in high school.

Physical Education Courses

Weight Training/Athletic PE- Required
Athletic Training Philosophy-Elective

Weight Training/Athletic PE

Full Year	Grade: 9, 10, 11, 12
Prerequisite:	Required
Credit	1.00
Grad. Req.:	Physical Education

Our Athletic P.E. classes are a chance for our students to receive personalized fitness instruction. This class is the equivalent of having a personal trainer in a group setting. Each student will independently, or in small groups, be able to receive physical training that is appropriate to their current physical training and physical abilities. Goals are set with the instructor. Cardiovascular, strength, flexibility, sport specific training, and injury rehabilitation are examples of what the students can choose to work at. All components are available at the student's disposal.

Oregon State Common Curriculum Goals for physical education ask that students demonstrate knowledge of a variety of motor skills, and understand and participate in a variety of physical and recreational activities available in the school and community. Students are expected to understand and apply movement concepts and physical education vocabulary as it relates to movement concepts. Students are expected to understand rules and strategies for a variety of physical activities, and to demonstrate knowledge of a physically active lifestyle. Students are expected to learn how their own personal fitness can be improved and maintained using a health related fitness assessment as one tool for measurement. At Horizon Christian High School students are asked to understand how God designed their body to best function and how to maintain the health of that function.

Athletic Training Philosophy

Full Year	Grade: 10, 11, 12
Prerequisite:	Weight Training
Credit	1.00
Grad. Req.:	Physical Education

Any students looking to go into the fitness industry or just wanting to know how to take control of their personal health will enjoy this class. Various components of fitness and health are studied and students are taught how to understand each of these components from one sound philosophy. The course includes the following:

1. Training Philosophy- God's strength progression, living adaptive organism
2. Muscular Anatomy- components of muscle tissue, muscular contraction
3. Skeletal Anatomy- components of bone tissue- proper movement of bones
4. Philosophy of exercise- warm-ups, cool-downs, strength training, running efficiency training
5. Injury rehabilitation- basic first aid, joint stabilization, joint range of motion
6. Program Design- how to develop your own fitness routines
7. Personal Training- client intakes, client assessment
8. Team/Group training- warm-up and group goal setting

FINE ARTS

GRADUATION REQUIREMENTS

- Courses in this department provide credit towards the Fine Arts, Second Language, and Professional Technical Education (PTE).
- A combination of three years is required in Fine Arts, Second Language, or PTE.

Fine Arts Courses

Art
Advanced Art
Drama
Theater Production
Ensemble

Art

Full Year	Grade: 9, 10, 11, 12
Prerequisite:	None
Credit:	1.00
Grad. Req.:	Fine Arts
Textbook:	Art, Glencoe

This art course is based on art history, technique, and personal skill development. Students will study art eras from pre-historic to modern art. They will learn about each time period, art criticism, and various styles throughout the year. Students will also apply the elements and principles of design to work by outside artists as well as to their own work. This course also includes research into an artist of their choice and participation in our K-12 Spring Art Show.

Advanced Art

Full Year	Grade: 9, 10, 11, 12
Prerequisite:	Art
Credit:	1.00
Grad. Req.:	Fine Arts
Textbook:	Art, Glencoe

Advanced Art is offered to students who have met the basic requirements of the introductory art class. An advanced art class may include activities such as water-color painting, acrylic based painting, sculpture, and ceramics. What is taught depends upon resources available and the skill level and interests of both teacher and student. There will be an additional fee for this class and students may need to be transported to an area studio to do some of their work.

Drama

Full Year	Grade: 9, 10, 11, 12
Prerequisite:	None
Credit:	1.00
Grad. Req.:	Fine Arts

The class will provide an introduction to Theatre Arts. Students will learn the basic skills required of a performer on stage and technical roles backstage. Areas covered will be improvisation, short scenes, monologues, characterization, stagecraft, and articulation, body work, and the communication of emotion through body language. Students will perform for each other numerous scenes and perform for the public in the One Acts Festival. All students will work back stage as well. Performance in public is not a requirement.

Theater Production

Full Year	Grade: 9, 10, 11, 12
Prerequisite:	Instructor Approval
Credit:	1.00
Grad. Req.:	Fine Arts

The members of this class are;

1. Students cast in a major roll for one of the years plays.
2. Students who will take a leadership roll in backstage design, construction and/or stage craft.
3. Students wishing to go deeper in the field of theatrical arts.

Key Content: Script analysis, set design, back stage production, character development, prop construction, procurement, prop organization, costume design, costume construction, light design, sound design, light performance, light construction, sound performance and sound infrastructure.

Ensemble (Sonrise)

Full Year	Grade: 9, 10, 11, 12
Prerequisite:	Instructor Approval
Credit:	1.00
Grad. Req.:	Fine Arts

The primary goal of our department is simple: to worship God through Music. Whether we're performing a classical piece, singing a Broadway tune or leading contemporary worship, we look for ways to connect God's truth to everyday life and bring people heart-to-heart with God. We know the best musical ambassadors are those who have an understanding of the value of music, choral literature, and style. So we work on attaining general musical knowledge, vocal production skills, critical thinking skills, and independent and corporate performance skills while working toward a common goal. We pursue excellence in our craft so that our messages through song can be delivered powerfully and distraction-free. Our concert schedule includes a Christmas celebration in December, as well a spring program in May. However, no two years are ever the same, as competitions, chapel events, and musical theater opportunities are incorporated into our curriculum, depending on the student goals and specific school-wide activities.

BIBLE

GRADUATION REQUIREMENTS

The Bible program consists of four full year courses at each grade level.

- Four full years (eight semesters) of Bible are required for a Horizon diploma unless student is a transfer student.
- Transfer students must take Bible each semester enrolled.

Bible Courses

Required Courses

Old Testament Studies
New Testament Studies

11th and 12th Graders Choose Two

Christian Worldview and Apologetics
Biblical Themes and Current Issues
The Mission of God
Leadership and Spiritual Formation

Old Testament Studies

Full Year	Grade: 9
Prerequisite:	None
Credit:	1.00
Grad. Req.:	Bible
Textbook:	“The Holy Bible” (New Living Translation, Life Application Study Bible) “God’s Unfolding Plan” (Student Text and Teacher Curriculum)

Old Testament Studies is a one-year class designed as a foundational course in the high school Spiritual Formation track. This course is designed specifically for freshman and transfer students entering tenth grade. Old Testament Studies is focused on “HIS Story: God’s Redemptive Plan.” This is a study of the historical books and prophetic writings in the Old Testament that focus on God’s efforts to bring humanity back to Himself. Additionally, this course examines the Old Testament wisdom writings for the purpose of experiencing God’s heart of mercy, grace and love.

New Testament Studies

Full Year	Grade: 10
Prerequisite:	Old Testament Studies or Transfer student into grades 11, 12
Credit:	1.00
Grad. Req.:	Bible
Textbook:	“The Holy Bible” (New Living Translation, Life Application Study Bible) “The Harmony of the Gospels, NIV” (Classroom Textbook) “Connecting With God” (Teacher Resource)

New Testament Studies is a one-year class. This foundational course begins with a look at “The Life of Christ,” a study of His words and works, with the goal of understanding His life and experiencing His love. The second area of study is on “The Acts and Writings of Paul and the Early Church.” This is a historical look at the growing church through the life and letters of the Apostle Paul for the purpose of igniting a love for God and a desire to serve Him.

Christian Worldview and Apologetics

Full Year	Grade: 11, 12
Prerequisite:	New Testament Studies
Credit:	1.00
Grad. Req.:	Bible
Textbook:	“The Holy Bible” (New Living Translation, Life Application Study Bible) “Understanding the Times” (Teacher Resource, Classroom Resource) “Mere Christianity” (additional student reading)

Christian Worldview & Apologetics is an advanced, one-year course that offers a focus on a Christian worldview, a comparison of world religions, evangelism and apologetics. Course content will include comparing and contrasting major religions. It will provide a defense for the reliability of biblical texts and the historicity of Jesus. Students will dig deep into key biblical passages that give a comprehensive study of Christian practices and provide a foundation for building a Christian worldview. The focus of this course is to prepare students for the future and launch them with confidence into the university environment and/or corporate world.

Biblical Themes and Current Issues

Full Year	Grade: 11, 12
Prerequisite:	New Testament Studies
Credit:	1.00
Grad. Req.:	Bible
Textbook:	“The Holy Bible” (New Living Translation, Life Application Study Bible) “Understanding the Times” (Teacher Resource) “Wise Up” (Teacher Resource)

This one-year class for upper classmen will examine major themes of the Bible that have application to current issues of our day. Through a study of books like Proverbs, Romans, The Gospels, Paul's Letters and others, students will explore themes such as wisdom and righteousness, injustice, sexual purity, salvation, relationships, and worship. Application will be encouraged on a personal and corporate level through class projects and assignments.

Mission of God

Full Year	Grade: 11, 12
Prerequisite:	New Testament Studies
Credit:	1.00
Grad. Req.:	Bible
Textbook:	“The Holy Bible” (New Living Translation, Life Application Study Bible) “Missio Dei” (Teacher Curriculum, Student Textbook) “The Journey” (Student Journal) “The Screwtape Letters” (additional student reading)

The Mission of God is a one-year class focused on “The Mission of God.” The course will explore how we see God (Relationship) and ourselves (Identity) as we join Him on the adventure of a lifetime. Additionally it will examine God's design for us (Calling), our relationship to the world around us (Purpose), and our future/vocation (Direction) as we look toward a lifetime of loving and serving Him.

Leadership and Spiritual Formation

Full Year	Grade: 11, 12
Prerequisite:	Old & New Testament Studies (Instructor Approval)
Credit:	1.00
Grad. Req.:	Bible
Textbook:	“The Holy Bible” (New Living Translation, Life Application Study Bible) “Unlocking Your Potential” (Teacher Resource) “Jesus, CEO” (Teacher Resource, Classroom Resource)

Leadership is a one-year class for seniors and approved juniors. This class is an excellent choice for students involved with the ASB and the Court of Hearts. Leadership development will be explored within the context of personal, character growth. Learning experiences will include classroom lecture and discussion, personal research and discovery, as well as small group student leadership. Leadership principles will be expressed through service projects, leading small groups, event leadership and an optional mission trip in the spring or summer.

BUSINESS EDUCATION

GRADUATION REQUIREMENTS

Courses in this section fall under the category of Business Education.

- Classes may fulfill a Professional Technical Education (PTE) requirement or an Elective.
- Classes may be taken for a semester or a full year.

Business Education Courses

Marketing 1
Sports & Entertainment Marketing
Retail Marketing Management

Marketing 1

1 Semester	Grade: 9, 10, 11, 12
Prerequisite:	None
Credit:	.500
Grad. Req.	Professional Technical Education
Textbook:	TBA

Marketing I prepares students who are planning to study business in college and work in the business field after graduation. Connecting real world business through the study of marketing concepts, advertising, promotion, sales, branding and product marketing, distribution, pricing and marketing research; students will gain a broad perspective of the business world. Students will create authentic print ads, radio ads, sales demonstrations, TV ads, and sales manuals by utilizing video production, audio editing, graphic design, and word processing. Students will conduct presentations and activities throughout the semester relating to the course curriculum. Marketing I is an excellent college preparatory class. Students are given the opportunity to participate in DECA, an association of marketing students.

Sports and Entertainment Marketing

1 Semester	Grade: 10, 11, 12
Prerequisite:	Marketing
Credit:	.500
Grad. Req.:	Professional Technical Education
Textbook:	TBA

Sports and Entertainment Marketing is a course designed to further build upon knowledge and skills learned in Marketing I with an emphasis on direct application to the growing industry of

Sports and Entertainment Marketing. Students will make formal presentations on current Sports and Entertainment issues and research, create marketing strategies to promote and sell athletes, teams, products, movies, TV shows, productions, and entertainers. Projects may include working with school athletic teams and fine arts programs. All students will conduct a Marketing Research study in the fields of sports and entertainment. Previous studies have involved Nike, Adidas, Columbia Sportswear, Blockbuster Entertainment, Salomon, and the Les Schwab Invitational basketball tournament. The class will include an exploratory field trip to a prominent sports franchise or company. Students are given the opportunity to participate in DECA, an association of marketing students.

Retail Marketing Management

Full Year	Grade: 11, 12
Prerequisite:	11 th or 12 th grade, or consent of instructor
Credit:	1.00
Grad. Req.:	Professional Technical Education
Textbook:	TBA

Retail Marketing Management provides students with the opportunity to manage and entrepreneurially market the student operated retail store on campus. Students will apply knowledge and concepts learned to make management, financial, marketing, and business decisions for the retail store. Students will work with other store managers to strive to operate a successful and efficient student store serving the staff, students, and parents of Horizon Christian High School. This course is a college preparatory class that uses the DECA program, an association of marketing students. Students will submit at the end of the semester a written portfolio and oral presentation on the topic of their choosing such topics as: advertising campaign, business plan, fashion merchandising promotion plan, international business plan, business community service project, marketing research plan, e-commerce business plan, public relations project, and many others. Leadership is a part of the curriculum, too, and students are encouraged to attend the Oregon DECA competition in February.

PROFESSIONAL TECHNICAL EDUCATION GRADUATION REQUIREMENTS

Courses in this section fall under the category of Professional Technical Education (PTE).

- Classes may fulfill a PTE requirement or an Elective.
- Classes may be taken for a semester or a full year.

Technology Foundations and Design

Full Year	Grade: 9, 10, 11, 12
Prerequisite:	None
Credit:	1.00
Grad. Req.:	Professional Technical Education (PTE)

This course will introduce the student to the diverse study of our technological world. Students will gain basic background understanding in different technological themes. Once background has been established, students will be involved in innovative solutions to technical problems. These solutions will involve minds on, hands on experimentation and application. Further emphasis in the course will be in the design process through an engineering perspective. The class is unique in that all of the activities are occurring at the same time in the same space. Students will be participating in activities that involve design, construction and testing of their projects.

Technological topics include but are not limited to:

Electronics/analog/digital- build and test circuits.

Blueprint reading/Basic Drafting/Computer aided drafting applications.

Internal combustion engines-take apart and rebuild small engine.

Magnetic levitation for transportation- construct and test magnetic levitation vehicle.

Solar/Wind power- construct and test devices for power output.

Automotive Design/modeling and testing- design vehicle and build to scale.

Principles of flight- construction of airplanes, rockets and test.

Structures/Bridges/Towers/Cantilevers / Modeling decks and roof trusses.

Boat Hull design - construction and testing.

Simple machines /crane design build and test for mass lifted.

Inventions and careers related to technology topics.

Multiple single class technology problems-students design/build and test solutions.

ELECTIVE COURSE OPTIONS

GRADUATION REQUIREMENTS

Courses in this section fall under the category of Elective Courses, however, Independent Study courses may include a required course.

- Classes may be taken for a semester or a full year.
- Some courses are for credit and some are for no credit but rather are a pass/no pass class.

Elective Courses

Independent Study
Study Hall
Teacher's Aide
Cadet Teacher

Independent Study

Full Year **Grade: 9, 10, 11, 12**
Prerequisite: Teacher/Principal Approval
Credit: 1.00
Grad. Req.: Core/Elective

Independent Study is an option that is provided for students who are not able to fit a certain class into their schedule due to a conflict in their schedule. Students will need to meet with an Administrator to complete documents prior to enrollment in an Independent Study Course. Students who need to take an Independent Study course will be assigned to the Study Hall classroom for attendance and studying purposes; however homework, assignments, tests and finals will come from the teacher who is best determined to be able to administer the course information. Students will be required to be self-motivated and work independently; making consistent contact with the teacher to receive instruction and coursework.

- ❖ **Note: A student may not earn more than 2 Semesters, or 1.00 credit, during the same year for an Independent Study Course.**

Study Hall

Full Year	Grade: 9, 10, 11, 12
Prerequisite:	None
Credit:	Zero Credit, Pass/No Pass Grade
Grad. Req.:	Elective

Study Hall is designed for students who have a heavy school schedule and don't have time outside of school for homework. Therefore, it is important that students use the study hall time for **SCHOOLWORK**. Students are expected to bring schoolwork to do in class. If they have no "homework" then they are to **STUDY** (read over textbooks, review material learned, study for any upcoming tests, or if nothing else, read a book.) A teacher or teacher's aide supervises the class and is available to assist students with questions and support to become a more successful student. Study Hall is a zero credit; pass/no pass class, however, tardy and attendance rules still apply.

Teacher's Aide

Full Year	Grade: 9, 10, 11, 12
Prerequisite:	Teacher Approval
Credit:	1.00 credit, Pass/ No Pass Grade
Grad. Req.:	Elective

A Teacher's Aide or TA position is available to students with teacher and principal approval. A TA will work for a teacher or the office during the assigned class time and assist the teacher or office with various duties. Attendance is monitored and tardy and absences are recorded.

Cadet Teacher

Full Year	Grade: 9, 10, 11, 12
Prerequisite:	Teacher/Principal Approval
Credit:	1.00 credit, Graded
Grad. Req.:	Elective

A Cadet Teacher is a "student teacher" who works under the direct supervision of the assigned teacher. Duties may include, but are not limited to: copying, filing, grading, tutoring, teacher prep work, and at times, teaching the subject with the teacher present. Cadet Teachers will be required to write one lesson plan for one class period per quarter. A Cadet Teacher will receive both .500 credit and a grade each semester.

