



West Lutheran High School
Course Descriptions
2021-2022

Graduation Requirements

Graduation requires taking 19.5 credits plus a religion credit for each semester enrolled. Among those 19.5 credits, you will need a minimum of credits for each of the following subjects:

English 4 cr.

Social Studies

3.5 cr.

Science 3 cr.

Mathematics

3 cr.

Art 1 cr.

Determining Grade Point Average

All general courses will contribute to the grade point average (GPA) of a student's transcript based on a letter grade and number of credits earned based on a 4.0 system. Honors Classes will be awarded an additional 0.33 points to scores of C- and greater as shown in the chart below. Courses eligible for college credits included Advanced Placement and Post-Secondary Education Option courses will be awarded an additional 0.67 to scores of C- and greater as shown in the chart below.

TRADITIONAL GPA			HONORS GPA			AP® AND PSEO GPA		
Letter Grade	%	Grade Points	Letter Grade	%	Grade Points	Letter Grade	%	Grade Points
A	100-96	4.00	A	100-96	4.33	A	100-96	4.67
A-	95-92	3.67	A-	95-92	4.00	A-	95-92	4.33
B+	91-89	3.33	B+	91-89	3.67	B+	91-89	4.00
B	88-86	3.00	B	88-86	3.33	B	88-86	3.67
B-	85-83	2.67	B-	85-83	3.00	B-	85-83	3.33
C+	82-80	2.33	C+	82-80	2.67	C+	82-80	3.00
C	79-77	2.00	C	79-77	2.33	C	79-77	2.67
C-	76-74	1.67	C-	76-74	2.00	C-	76-74	2.33
D+	73-71	1.33	D+	73-71	1.67	D+	73-71	1.33
D	70-68	1.00	D	70-68	1.00	D	70-68	1.00
D-	67-65	0.67	D-	67-65	0.67	D-	67-65	0.67
F	64-00	0.00	F	64-00	0.00	F	64-00	0.00

A student's GPA becomes an official part of their transcript after each semester is completed. Transcripts that are generated by West will show the cumulative GPA scores based on weighted scores.

Courses Offered

Religion

Introduction to Christianity
Old Testament
Later Old Testament and the Life of Christ
Christian Doctrine and the Book of Acts
Christian Faith and Life
Christian Health and Wellness

English

Foundations of English
Writing and Grammar
World Literature
Communication and Speech
Written Composition
Honors English
Genres of Literature
PSEO/AP® Literature and Composition

ESL

English as a Second Language I
English as a Second Language II
English as a Second Language III (College Preparation English)

Mathematics

Algebra 1A
Algebra 1B
Algebra 1
Geometry
Algebra 2
Pre-Calculus with Trigonometry
Advanced Mathematics
AP® Calculus

Science

Introduction to STEM
Physical Science
Introduction to Psychology
Biology
Chemistry in the Community
Honors Chemistry
Anatomy/Physiology
Physics
PSEO General Psychology

Engineering

Engineering Essentials
Introduction to Engineering Design
Engineering Capstone
Applied Engineering

Social Studies

Economics
Business
World Geography
Western Civilization
US History
AP® US History
Political Science
PSEO World History
PSEO American Government

Foreign Languages

Latin 1
Latin 2
Spanish 1
Spanish 2
Spanish 3
Spanish 4

Fine Arts

Music 9
Concert Band
Concert Choir
Western Accents (NO credit class)
Media Arts
Drawing and Painting

Physical Education/Health

Physical Education 9
Team Games
Human Performance
Peak Performance

Online/Independent Study

PSEO Online College Algebra
PSEO Online Statistics
PSEO Introduction to Mass Media
PSEO Music Appreciation
German I, II, III, IV
Chinese I, II
Latin III
Latin IV
American Sign Language I
AP® Environmental Science
Astronomy/Medical Terminology
World Regional Geography (college credit)
Game Programming I, II
Introduction to Programming
Web Page Design
Da Vinci Club
Art and Architecture
Digital Photography

Religion

Students are enrolled in a religion course during each of their semesters at West. The courses listed below have been developed by the Religion department to build the student's knowledge of the Word of God. They also provide a forum for our students to ask the deep questions that come from the hearts of Christians who are building their faith.

Introduction to Christianity

Grade Level: International Students and those with little experience studying the bible

Course Credit: One Credit

Prerequisite(s): none

Description: Students will examine various stories in Bible History and study basic doctrines of the church as presented in the Bible and interpreted by the various arms of the Christian church. Other topics include the early Christian church as it existed in Revelations, the development of the early church, the Reformation and post Reformation churches, and approaches to Bible interpretation.

Old Testament

Grade Level: 9

Course Credit: One Credit

Prerequisite(s): none. Normally taken on the freshman level

Description: This course covers Old Testament history from Creation to the reign of King David (Genesis through II Samuel). Emphasis is on the history of God's people in the Old Testament times with highlights on the Messianic promises. Practical presentations on topics such as Christian self-esteem, peer pressure, and dealing with conflict are given throughout the course.

Later Old Testament History and the Life of Christ

Grade Level: 10

Course Credit: 0.5 Credits

Prerequisite(s): none

Description: This semester course studies the Old Testament from Solomon to Malachi (I Kings to Malachi), and the life of Christ from the four gospels. The Old Testament study focuses on the Messianic promises and their fulfillment in Christ. The New Testament study is devoted to the life of Christ

Christian Doctrine and the Book of Acts

Grade Level: 11

Course Credit: One Credit

Prerequisite(s): none

Description: This course includes study of the doctrines of justification and sanctification and the teachings of law and gospel as found in the Books of Romans and Galatians. It also offers a brief survey of history of the Christian Church beginning with the book of Acts. Finally, it touches on the beliefs of the major denominations and cults, their role in the history of the church, and how they differ from Bible-based Lutheranism.

Christian Faith and Life

Grade Level: 12

Course Credit: One Credit

Prerequisite(s): Junior/Senior Status

Description: Studies will include pertinent issues which face the Christians living in the world today; a study of the book of Revelation; a review of God's plan for marriage and commitment; cults and comparative religions and the general New Testament epistles.

Christian Health and Wellness

Grade Level: 10

Course Credit: 0.5 Credits

Prerequisite(s): None

Description: This course focuses on developing and maintaining habits and strategies to promote Christian character, relationships, and spiritual, mental, emotional, and physical health and wellness. Studies of the impacts of digital media on health and relationships as well as personality assessments and inventories will be used in this self-discovery and wellness course.

English

Foundations of English

Grade Level: 9 (or other students based on instructor recommendation)

Course Credit: One Credit

Prerequisite(s): D+ in current English course or recommendation of English teacher; percentile score of 50% or lower on MAP/standardized test

Description: Students will review basic reading, writing, and grammar skills.

Writing and Grammar

Grade Level: 9

Course Credit: One Credit

Prerequisite(s): none

Description: Students learn the foundations of effective high school-level writing and literature study, and grammar usage.

World Literature

Grade Level: 10

Course Credit: One Credit

Prerequisite(s): none

Description: This course provides students with an overview of world literature through short stories, poetry, nonfiction, drama, and novels and continues the writing process through essays, research papers, and reflective writing.

Communication and Speech

Grade Level: 11

Course Credit: 0.5 Credits

Prerequisite(s): none

Description: Students will develop and practice skills in the communication process, including interpersonal communication, listening, and public speaking.

Written Composition

Grade Level: 11

Course Credit: 0.5 Credits

Prerequisite(s): none

Description: Using a blend of scholarly and creative writing, students will strengthen and expand their writing skills. Students will also create practical writing samples, such as college application essays and/or résumés.

Honors English

Grade Level: 11

Course Credit: 0.5 Credits

Prerequisite(s): Cumulative English GPA of 3.33 or better or consent of instructor

Description: Honors English will include advanced literary analysis and composition skills. This course is a prerequisite for taking PSEO Introduction to Literature/AP® Literature and Composition.

Genres of Literature

Grade Level: 12

Course Credit: 0.5 Credits

Prerequisite(s): none

Description: This course is a study of various literary genres such as poetry, drama, novels, short stories, biographies, journals and essays. Students analyze how each genre shapes literary understanding, as well as the impact different genres have had in the past and present.

PSEO Introduction to Literature/AP® Literature and Composition

Grade Level: 12

Course Credit: One Credit (4 college credits through Concordia University 1st semester only)

Prerequisite(s): B in Honors English and overall GPA of 3.25 (MN requirement for PSEO)

Description: Course description for PSEO Introduction to Literature / AP® Literature & Composition: Advanced Placement Literature and Composition is an introductory college course. This course is designed to develop the student's ability to read, analyze, and write about serious literature. The emphasis is on the influence of the time period and the novel's content. First semester PSEO is taught cooperatively with Concordia University; the class will be taken on the West campus with credits awarded via Concordia. A spring examination administered through the College Board will make the credits available from most colleges based on the examination score.

ESL

ESL I

Grade Level: First year International Students

Course Credit: One Credit

Prerequisite(s): none

Description: Students learn basic English conversation and host family living skills, as well as important elements of American culture. This course focuses on developing speaking and listening skills, vocabulary and grammar proficiency, collaboration skills, and reading comprehension.

ESL II

Grade Level: Second year International Students

Course Credit: One Credit

Prerequisite(s): ESL 1 or approved placement

Description: Students review the basics of English conversation and speaking skills, while learning advanced writing techniques. There is a continued emphasis on practical elements of American culture such as college living, careers, and key historical events.

ESL III (College Prep English)

Grade Level: Third year International Students

Course Credit: One Credit

Prerequisite(s): ESL 2 or approved placement

Description: Students are guided in review for TOEFL and ACT exams necessary for college entrance in the United States.

Mathematics

Although West Lutheran requires 3 credits in mathematics for graduation, many colleges recommend 4 credits. Some four-year colleges do require 4 math credits for acceptance. The University of Minnesota system made this a requirement starting in spring of 2015.

Algebra 1A

Grade Level: 9

Course Credit: One Credit

Prerequisite(s): NWEA MAP score or other placement test

Description: This fundamental course covers the first half of Algebra 1 content, spacing out the content to cover an entire school year and giving students more time to master the Algebra concepts included.

Algebra 1B

Grade Level: 10

Course Credit: One Credit

Prerequisite(s): Algebra 1A or NWEA MAP score or other placement test

Description: This follow-up course to Algebra 1A covers the second half of Algebra 1 content, spacing out the content to cover an entire school year and giving students more time to master the Algebra concepts included.

Algebra 1

Grade Level: 9

Course Credit: One Credit

Prerequisite(s): NWEA MAP score or other placement test

Description: Topics that would be covered include the language of mathematics, sets, equation solving with one or more variables, inequalities, functions, graphing, factoring polynomials, word problems, rational and irrational numbers, and quadratic equations.

Geometry

Grade Level: 9, 10, 11

Course Credit: One Credit

Prerequisite(s): Algebra 1 or NWEA MAP score or other placement test

Description: The class is a comprehensive study of Euclidean geometry in two and three dimensions. Emphasis is given to the application of geometric postulates and theorems, as well as understanding how geometric formulas are derived. It is designed to give the students the skills needed in geometry as well as prepare them for Algebra 2.

Algebra 2

Grade Level: 10, 11, 12

Course Credit: One Credit

Prerequisite(s): Algebra 1 and Geometry

Description: A thorough review and expansion of Algebra 1 in the areas of linear and quadratic equations, inequalities, functions and irrational numbers. Students are introduced to logarithms, matrices, sequences, series and probability.

Precalculus with Trigonometry

Grade Level: 11

Course Credit: One Credit

Prerequisite(s): "C" or above in Algebra 1 and Geometry or consent of instructor.

Description: An expansion of concepts taught in Algebra is covered along with conics, higher order functions, logarithms, and trigonometry. The trigonometry portion will consist of a study of trigonometric functions and their inverses, circular functions, triangle trigonometry, polar coordinates, vectors and complex number equations. Emphasis is given to application and critical thinking needed to be successful for AP® Calculus.

Advanced Mathematics

Grade Level: 12

Course Credit: One Credit

Prerequisite(s): Algebra II or Precalculus with Trigonometry

Description: Designed for college-bound students who have completed Algebra II, this course serves as a transition into college level math. Topics covered include basic trigonometry, logarithms, exponentials, statistics and probability.

AP® Calculus AB

Grade Level: 12

Course Credit: One Credit

Prerequisite(s): “C” in Precalculus with Trigonometry

Description: An introduction to calculus beginning with limits. The basic concepts of differentiation and integration are covered along with application in each area.

Science

Enrollment in General Science is required for ninth grade and Biology is required for tenth grade. Juniors should take one of our Chemistry offerings. Registering college bound seniors should investigate which offered electives best fits their intended program of study.

Physical Science

Grade Level: 9

Course Credit: 0.5 Credit

Prerequisite(s): none

Description: This course is an introduction into science, through this course, students will study physical science and various principles of general science through chemistry and physics. Students will also be introduced into the many different areas of science, and learn to see science as a way to look more closely at how God set up the principles that run the universe.

Introduction to STEM

Grade Level: 9

Course Credit: 0.5 Credit

Prerequisite(s): none

Description: One of two semester long courses serving as the science core offering. This course will be offered the alternate semester to 9th grade physical science. Though a combination of text and project-based learning, students will learn the basics of electronics, the engineering design process, Computer Aided Design (CAD), fabrication via 3D printing, prototyping, programming/code writing and structural engineering.

Biology

Grade Level: 10

Course Credit: One Credit

Prerequisite(s): none

Description: Biology is the study of life as God has created it. Understanding life and life processes depends on mastering the unifying principles and concepts applicable to all life forms. Taught as sequential units, this course begins with the underlying chemistry and systems of life and progresses through microbiology, botany, zoology and physiology.

Chemistry in the Community

Grade Level: 11, 12

Course Credit: One Credit

Prerequisite(s): none

Description: Chemistry in the Community covers the principles of general chemistry through units that emphasize organic chemistry, environmental chemistry, and industrial chemistry. Students learn concepts on a need-to-know basis, evaluate data, and make decisions based on their knowledge and observations. The lab-based course features activities that give students practice in applying their knowledge of chemistry. Much of the material will overlap environmental studies and lab work that include field studies as well as engineering concepts that apply to the intersection of chemistry and industry.

Honors Chemistry

Grade Level: 11, 12

Course Credit: One Credit

Prerequisite for Honors Chemistry: B+ in science classes and need to be enrolled in Algebra II or Pre-calculus (or completion)

Description: Chemistry is the study of creation from the point of view of its smallest particles. The nature of matter including its structure, characteristics, properties and reactions is discovered studied through laboratory activities, readings and classroom discussion. This course is designed primarily for students who are oriented toward math and science-based careers. It involves a more rigorous theoretical and mathematical approach to chemistry topics and an accelerated pace.

Anatomy / Physiology

Grade Level: 12

Course Credit: One Credit

Prerequisite(s): B+ in Biology or consent of instructor

Description: A college prep course, Anatomy / Physiology is an application of the principals of biology to the systems of the human body. A strong emphasis will be placed on discussion and lab activities. Participants should be plan on participation in dissecting activities among other labs. This course has the rigor of a college prep course and is given the credit value of an honors level course.

Physics

Grade Level: 12

Course Credit: One Credit

Prerequisite(s): "B" in Algebra II or "C" in Precalculus and a B average in science classes or consent of instructor.

Description: Physics is a science that is concerned with the relationship between matter and energy in God's visible word. This lab-oriented course focuses on the mathematical description of the laws God set in place to govern his creation. Vernier equipment is used to discover, analyze and apply these laws. Most of the year will be spent studying mechanical topics including motion, forces, momentum, energy and its conservation, and thermodynamics. Other topics include the study of waves, the nature of light, and an introduction to electricity and magnetism. In most years, the course culminates with a field trip to Valley Fair to apply Physics principles and to collect and analyze real world data.

Introduction to Psychology (1st Semester only)

Grade Level: 11, 12

Course Credit: 0.5 Credits

Prerequisite(s): none

Description: A survey course aimed at basic understanding of human behavior. Areas of study will include the field of psychology, the brain and its development, personality, and psychological disorders.

PSEO General Psychology (PSYC 110) (2nd semester only)

Grade Level: 11, 12

Course Credit: 0.5 Credits (4 Credits through Bethany Lutheran College)

Prerequisite(s): Students must be PSEO Academically eligible. They must also be enrolled in Introduction to Psychology for the first semester or receive instructor's approval. (Students who are not PSEO eligible will be charged **\$95/college credit**)

Description: This course is an online course, facilitated by an instructor at WLHS, and taken as a cohort with other WLHS students. This course provides an overview of the major concepts of psychology viewed through contrasting perspectives and gives students a general knowledge base pertaining to the field. A wide range of topics are covered, including: biological influences, learning and memory, development, social factors, abnormal behavior, and therapy. Emphasis is placed on the relevance of psychology to everyday life and faith.

Engineering

Engineering Essentials

Grade Level: 9-12

Course Credit: One Credit (**\$200 Enrollment Fee**)

Prerequisite(s): none

Description: Students are introduced to engineering concepts that are applicable across multiple engineering disciplines and empowers them to build technical skills through the use of a variety of engineering tools, such as geographic information systems (GIS), 3-D solid modeling software, and prototyping equipment. Students learn and apply the engineering design process to develop mechanical, electronic process, and logistical solutions to relevant problems across a variety of industry sectors, including health care, public service, and product development and manufacturing.

Introduction to Engineering Design

Grade Level: 10-12

Course Credit: One Credit (**\$200 Enrollment Fee**)

Prerequisite(s): Essentials of Engineering

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

Engineering Capstone

Grade Level: 11-12

Course Credit: One Credit (**\$200 Enrollment Fee**)

Prerequisite(s): Essentials of Engineering, Introduction to Engineering

Description: ECS is a capstone course that allows students to put into practice the engineering skills they have learned in previous courses by designing and building. The skills used include the engineering design process, use of electronics, code writing, CAD, mechanical engineering, 3D printing and prototyping. New skills will include advanced fabrication using laser cutting, CNC production (pending the equip/ room use proposal below) and IoT technology (wireless device connectivity) Participants will build a web-based portfolio (also another new skill) suitable for presenting to post-secondary programs, scholarship and grant committees, internship applications, etc. Additionally, participants will design, prototype and build a minimum of one original product that they will be able to keep as a part of their design portfolio.

Applied Engineering: Independent study project based course (AEI)

Grade Level: 12

Course Credit: .5 (1 semester class, can take 2 semesters) (**\$100 Enrollment Fee/semester**)

Prerequisite(s): Essentials of Engineering, Introduction to Engineering, Engineering Capstone

Description: This class gives an opportunity for engineering students to make projects based on their previous courses to keep their skills sharp and have some fun applying what they have been learning at West. Students will propose their project goals before the beginning of a semester and the supervising instructor will approve those that use previously taught skills, can be worked on independently, are realistic to the fabricating abilities of our facility and appear to be appropriate for the abilities of the student. Progress will be cataloged on the student's ongoing digital portfolio. Students should expect to produce projects that can be taken home and used at the end of the term as well as projects that would be showcased for part of a school year.

Social Studies

Geography

Grade Level: 9

Course Credit: 0.5 credits

Prerequisite(s): none

Description: Along the educational journey the students take in class, the material presented will take them throughout the various physical, economic, political, and cultural aspects of various regions. In addition, map work and detailed presentations will be required during this course.

World History

Grade Level: 10

Course Credit: One Credit

Prerequisite(s): none

Description: This course examines Western Civilization from Prehistory to the French Revolution. It begins with a general survey of ancient civilizations. We later study those people and nations that have had the greatest impact on Western civilization, with special attention given to the growth and spread of Christianity.

US History

Grade Level: 11

Course Credit: One Credit

Prerequisite(s): none

Description: A seminar type class that emphasizes class participation and analytical thought. It is a survey class in that it begins with the settlement of the colonies and proceeds through the Vietnam War. This class uses video, discussion, essays, primary readings, and political cartoons as learning tools.

AP® US History

Grade Level: 11

Course Credit: One Credit

Prerequisite(s): B+ in social studies classes, B+ in English classes or instructor approval.

Description: Advanced Placement United States History is comparable to an introductory college course in U.S. Civilization. A college-level text, is supplemented by primary and secondary source readings. The course content begins with the Discovery and Settlement of the New World, proceeds through the Colonial period, the Revolutionary Period, the New Nation, the Civil War, the Gilded Age, the Progressive Age, World Wars I and II, the Cold War (including the Korean and Vietnam conflicts), and concludes with the Obama administration.

Political Science

Grade Level: 12

Course Credit: 0.5 Credit

Prerequisite(s): none

Description: Political Science is a two semester course in the basic principles of democracy and their application to the United States' government. The basic operations of the US government will be explored, primarily on the national level. Contemporary topics affecting the government will be debated by the students and current events monitored. Most importantly, the role of the Christian in God's two kingdoms will be explored.

Economics (2nd Semester only)

Grade Level: 12

Course Credit: 0.5 Credits

Prerequisite(s): None

Description: Semester long class that will introduce students to the exciting and challenging world of Economics. The course will examine economics from every angle including the breakdown of Micro & Macroeconomics.

PSEO World History (HIS 121) – 1st semester only

Grade Level: 12

Course Credit: 0.5 Credit (4 college credits through Concordia University)

Prerequisite(s): B+ in social studies classes, and overall GPA of 3.25 (MN requirement)

Description: Taught cooperatively with Concordia University, this course will cover early civilization until the Renaissance. Classes will be taken on campus but credits will be awarded via Concordia.

PSEO American Government (PLSC 105) – 2nd semester only

Grade Level: 12

Course Credit: 0.5 Credits (3 college credits through Bethany Lutheran College)

Prerequisite(s): Students must be PSEO Academically eligible and must be enrolled in PSEO World History (HIS 121)

Description: This course is an online course, facilitated by an instructor at WLHS, and taken as a cohort with other WLHS students. This course introduces the student to the American system of government and fosters an understanding of and appreciation for the Constitution of the United States. This course also reviews how federal institutions function and the management thereof, the role and function of the state, regional and local units of government, and a glimpse of political campaigns and elections.

Foreign Languages

While there is no graduation requirement for foreign languages, it is recommended that students take at least two years of a language if there is an interest in attending a four year college after graduation. Success in a foreign language demands a consistently strong effort involving attention, ability to memorize, regular completion of homework and a good attendance record

Latin 1

Grade Level: 9 -10

Course Credit: One Credit

Prerequisite(s): Consent of instructor dependent on demonstrated English achievement.

Description: This course seeks to provide the basics of Latin vocabulary, grammar and syntax, which takes the student through approximately thirty-two chapters of the text. This course also seeks to strengthen the student's knowledge of English grammar and vocabulary. Special emphasis is given to the many English words that are derived from the Latin language.

Latin 2

Grade Level: 10 -11

Course Credit: One Credit

Prerequisite(s): Latin I; see above information for continued enrollment.

Description: This course will begin by quickly reviewing the basics learned in Latin I. Then it will build upon those basics with more grammar and syntax. Finally, if time permits, there will be translation from Caesar's Gallic Wars and the Latin Bible.

Spanish I

Grade Level: 9, 10, 11

Course Credit: One Credit

Prerequisite(s): Consent of instructor dependent on demonstrated English achievement.

Description: Emphasizes vocabulary, basic grammar, oral and written work, in preparation for reading everyday Spanish and carrying on basic conversations in the target language.

Spanish II

Grade Level: 9, 10, 11, 12

Course Credit: One Credit

Prerequisite(s): Spanish I; see above information for continued enrollment.

Description: Emphasizes advanced grammar needed to read, understand and use the Spanish language in oral and printed forms. Develops appreciation of Spanish culture and prepares students for college entrance by fulfilling language requirement.

Spanish III

Grade Level: 10, 11, 12

Course Credit: One Credit

Prerequisite(s): Spanish II; see above information for continued enrollment.

Description: Emphasizes improving oral and written communication skills through conversation, Spanish literature and AV materials.

Spanish IV

Grade Level: 11, 12

Course Credit: (Course availability dependent upon instructor and/or demand)

Fine Arts

Fundamentals of Music

Grade Level: 9

Course Credit: 0.6 Credits

Prerequisite(s): None

Description: Students are introduced to the art of singing and exposed to the many different ways they can express themselves through this art form. Sight-singing, ear training, and music theory are also taught. Students in this class are members of the Freshman Choir and perform at all school concerts. Attendance is a grade requirement.

Concert Band

Grade Level: 9-12

Course Credit: One Credit

Prerequisite(s): ability to play an instrument or consent of instructor

Description: As students prepare literature for the purpose of performance in a concert setting, they study the elements of musical expression, and proper instrumental techniques. Attendance at all performances is a grade requirement.

Concert Choir

Grade Level: 10-12

Course Credit: One Credit

Prerequisite(s): Fundamentals of Music or teacher consent

Description: As students prepare literature for the purpose of performance in a concert setting, they study the elements of music, the art of musical expression, and proper choral techniques. Attendance at all performances is a grade requirement.

Media Arts

Grade Level: 10-12 (As spots allow)

Course Credit: One Credit

Prerequisite(s): none

Description: Explore and experiment with digital art programs to develop a creative process and visually communicate **your own idea**. Learn the process of ideation, 2D design, typography, vector illustration, photo compositing, and an introduction to motion graphics and visual programming.

Drawing and Painting

Grade Level: 10-12 (As spots allow)

Course Credit: One Credit

Prerequisite(s): none

Description: Learn the fundamentals of visual art through the practice of traditional dry and wet mediums. Experiment and explore different styles of art while learning about several artists throughout art history by lecture and examining their work and process.

Physical Education/Health

Physical Education 9

Grade Level: 9

Course Credit: 0.4 Credits

Prerequisite(s): None

Description: Physical education 9 is a class designed to promote healthy lifestyles through physical activity. The focus of this class is based on both traditional team games as well current modified games. Among the activities covered in this class will be fitness testing, skills tests, and an introduction to team building through various team games.

Team Games

Grade Level: 10

Course Credit: 0.5 Credits

Prerequisite(s): None

Description: Sophomore physical education is a class designed to promote healthy lifestyles through physical activity and the benefits of Nutrition. The focus of this class is designed around team building through both traditional team games as well as modified team games and learning the foundations of the weight room. Strong participation and teamwork are the aspects of this class that can be carried throughout a person's life.

Human Performance (1st Semester only)

Grade Level: 11, 12

Course Credit: 0.5 Credits

Prerequisite(s): none

Description: This course continues the promotion of healthy lifestyles through physical activity. Among the activities that will be covered in this class will be proper weight training, aerobic and anaerobic conditioning, fitness testing, fitness planning, and a term paper as the final.

Peak Performance (2nd Semester only)

Grade Level: 11, 12

Course Credit: 0.5 Credits

Prerequisite(s): HP or instructor consent.

Description: This class will supplement HP level I and may be taken for separate credit.

General Courses

Business (1st semester only)

Grade Level: 11, 12

Course Credit: 0.5 Credits

Prerequisite(s): none

Description: In this course, students will be introduced to basic characteristics of business and to numerous business and management strategies in the areas of Marketing, Human Resources, and Finances. We will also explore different types and sizes of businesses. Students should be prepared for an interactive class that will include managing a class cooperative business and group discussions.

ALHS Online/Independent Study Courses

These courses act to supplement the curriculum at WLHS. Some courses may be taken as PSEO for college credit. PSEO courses are offered at no charge. All non-PSEO courses will be an additional out-of-pocket expense for students/families. This price is currently being figured out for the 21/22 school year). **Students must be approved to take online courses by the Principal/Vice-Principal of Academics prior to enrolling.**

*****FOR COMPLETE LIST OF CLASSES, PLEASE SEE YOUR HOMEROOM ADVISOR*****

Science Fiction/Fantasy (SF) Literature

Grade Level: 11-12

Course Credit: 0.5 Credits (Fall Semester only)

Prerequisite(s): Two years of high school English (B- or better)

Description: Time traveling aliens, robots, dragons, steampunk, and dystopian societies are all commonplace in science fiction and fantasy literature. Students in this course will identify various key characteristics of science fiction and fantasy as a genre and the subsequent sub-genres, survey the history & themes, explore SF as a platform for social expression and build an appreciation for the creative capacity of SF authors by delving into examples of SF literature from fan favorites like *The Hunger Games* trilogy to classics like Shelley's *Frankenstein*.

PSEO Online College Algebra (MATH 111)

Grade Level: 12 – Offered in both Fall and Spring Semesters

Course Credit: 0.5 Credits (4 Credits through Bethany Lutheran College)

Prerequisite(s): Students must be PSEO Academically eligible and must have completed Honors Algebra II.

Description: A study of functions, starting with the definition and focusing on the use of functions in all forms to model the real world. Includes comparing linear and nonlinear functions, transforming functions, looking at polynomial and rational functions globally and locally, models of growth and decline of systems and equations. (Students need to be proficient in mathematical thought and reasoning developed through the student of polynomials, factoring, rational expressions, roots and radicals, quadratic equations, functions and graphing.)

PSEO Online Statistics (MATH 120)

Grade Level: 12 – Offered in both Fall and Spring Semesters

Course Credit: 0.5 Credits (3 Credits through Bethany Lutheran College)

Prerequisite(s): Students must be PSEO Academically eligible and must have completed Honors Algebra II.

Description: Beginning statistical theory and practice are introduced through topics of data collection, sampling techniques, organization and presentation of data, measurement of central tendency, probability concepts, discrete and continuous probability distributions, statistical estimation, hypothesis testing, correlation analysis, linear regression and analysis of variance.

PSEO Introduction to Mass Media (COMM 240)

Grade Level: 12 – Offered in both Fall and Spring Semesters

Course Credit: 0.5 Credits (3 Credits through Bethany Lutheran College)

Prerequisite(s): Students must be PSEO Academically eligible

Description: Through study of the nature, functions, and responsibilities of the various print and electronic media, students are encouraged toward intelligent appraisal of the contributions and effects of mass media on the individuals and on our culture.

PSEO Music Appreciation (MUSIC 102)

Grade Level: 12 – Offered in Fall Semester only

Course Credit: 0.5 Credits (3 Credits through Bethany Lutheran College)

Prerequisite(s): Students must be PSEO Academically eligible

Description: Introduction to music as artistic expression. No musical background necessary for this course.

Online Foreign Language

German I

Grade Level: 9-12

Course Credit: One Credit

Prerequisite(s): None

Description: German 1 is a beginning course intended to introduce the student to the language and culture of German speaking countries. Connections will be made to the German Lutheran heritage in WELS schools. Students will develop listening, speaking, reading, and writing skills through a variety of activities based on authentic media and activities. (A two-year exchange program with the Evangelisches Gymnasium in Siegen Germany can be part of the course. Students can travel in the summer of even-numbered years for a two-week family stay and to attend the school with host family.)

German 2

Grade Level: 10-12

Course Credit: One Credit

Prerequisite(s): German 1 or equivalent knowledge of the German language

Description: German 2 is a continuation of German 1. Students will continue learning the language as well as the culture of German speaking countries.

German 3

Grade Level: 11, 12

Course Credit: One Credit

Prerequisite(s): German 2 or equivalent knowledge of the German language

Description: German 3 is a continuation of German 2. Students will continue learning the language as well as the culture of German speaking countries.

German 4

Grade Level: 11, 12

Course Credit: One Credit

Prerequisite(s): German 3 or equivalent knowledge of the German language **Description:** German 4 is a continuation of German 3. Students will continue learning the language as well as the culture of German speaking countries.

Latin 3

Grade Level: 11, 12

Course Credit: One Credit

Prerequisite(s): B or better in Latin 2 (or consent of instructor)

Description: Third year Latin presents a comprehensive review of vocabulary, syntax, grammar and translation. Building on the foundation of Latin 1 and 2, the course provides students with an in-depth experience of Caesar, Catullus, Cicero, Horace, Ovid and Vergil, as well as the Renaissance writer, Erasmus. The students are introduced to “unadapted” Latin literature building their literary skills. Students regularly are required to evaluate the various authors’ writings, ideas and philosophies in the light of God’s Word.

Latin 4

Grade Level: 12

Course Credit: One Credit

Prerequisite(s): B or better in Latin 3 (or consent of instructor)

Description: Fourth year Latin immerses the student in Vergil's classic epic, the Aeneid (Books 1-6). The students will first read the Aeneid in English to understand its historical context, storyline and cast of characters. The class will also include readings from Jerome's Vulgate as well as excerpts from ecclesiastical writers.

Chinese 1

Grade Level: 9-12

Course Credit: One Credit

Prerequisite(s): None

Description: An introduction to the Mandarin Chinese language and culture that includes listening, reading, writing, and speaking.

Chinese 2

Grade Level: 10-12

Course Credit: One Credit

Prerequisite(s): Chinese I

Description: A continuation of Chinese I, a study of the Mandarin Chinese language and culture that includes listening, reading, writing, and speaking.

American Sign Language 1

Grade Level: 11, 12

Course Credit: One Credit

Prerequisite(s): None

Description: A beginning level course that focuses on the fundamental elements of American Sign Language (ASL) in a cultural context. Emphasis is placed on the progressive development of expressive and receptive skills in fingerspelling and the thematic units while learning the visual language (short conversations) and culture of the Deaf.

American Sign Language 2

Grade Level: 12

Course Credit: One Credit

Prerequisite(s): American Sign Language 1

Description: A continuation of American Sign Language (ASL) 1. Emphasis is placed on the progressive development of expressive and receptive skills in fingerspelling and thematic units while learning the visual language (short conversations) and culture of the Deaf.

Online Science

AP® Environmental Science

Grade Level: 11, 12

Course Credit: One Credit (2 semesters)

Prerequisite(s): Two years of Laboratory Science

Description: A college-level course with an overview of components of ecosystems, including energy flow and the structure and dynamics of populations and communities. Students review the processes that affect natural environments, examine the impact of human activities on ecosystems, and discuss current environmental issues. The course is designed to prepare high school students to take the College Board AP® exam on this subject. Throughout the course the student is encouraged to demonstrate love for God through respect for His artistic work and love for neighbor in that others are not hurt or harmed by how we act. Field projects will be required.

World Regional Geography (This course is already FULL)

Grade Level: 11, 12

Course Credit: 1 Credit (3 College Credits - Martin Luther College)

Prerequisite(s): GPA of 3.5 or higher, or consent of instructor for GPA of 3.0-3.49

Description: An overview of the world's major realms from a spatial perspective. The physiographic and cultural landscapes of regions are explored using systematic geographic concepts.

****Astronomy and Medical Terminology will be offered every other year**

Astronomy

Grade Level: 11, 12

Course Credit: 0.5 Credits (spring semester only)

Prerequisite(s): None

Description: This course explores the wonders of the heavens above us. Students will gain an appreciation for God's majesty as revealed in His universe. Students will learn what an astronomer studies. Students will finally learn to navigate the night sky for personal enjoyment.

****New Medical Terminology Not offered this year**

Grade Level: 10-12

Course Credit: 0.5 Credits (spring semester only)

Prerequisite(s): None

Description: A study of the medical language and terminology used by science and health care professionals. Students receive a thorough grounding in basic medical terminology through a study of root words, prefixes, and suffixes.

Online Technology

Game Programming I

Grade Level: 10-12

Course Credit: 0.5 Credits (fall semester only)

Prerequisite(s): Introduction programming course or consent of instructor.

Description: Students will have the opportunity to write code to create and run simple 2D and 3D game programs using the Unity game engine. Using step-by-step instruction and hands-on projects, students will learn how to develop, test, run, and debug games that feature graphics and sound effects. The project(s) developed over the length of this course will encourage students to consider pursuing a technology related career that will influence the learning of others.

Game Programming II

Grade Level: 10-12

Course Credit: 0.5 Credits (spring semester only)

Prerequisite(s): "C" or better in Game Programming 1.

Description: Using the knowledge and skill developed in Game Programming 1, students will use the Unity Engine interface to develop more complex 2D and 3D games. Students will focus on the programming language C# and the role of Artificial Intelligence (AI) in making games more interactive and interesting. The project(s) developed over the length of this course will encourage students to consider pursuing a technology related career that will influence the learning of others.

Introduction to Programming

Grade Level: 10-12

Course Credit: 0.5 Credits (Fall Semester only)

Prerequisite(s): None, but basic computer knowledge is assumed.

Description: *Introduction to Programming* is a hands-on introductory computer-programming course. Students will learn the fundamental programming techniques of the Visual Basic language, while setting a foundation for the learning of other programming languages.

Web Page Design

Grade Level: 10-12

Course Credit: 0.5 Credits (Fall Semester only)

Prerequisite(s): None, but basic computer knowledge is assumed.

Description: Students will learn HTML (Hyper Text Markup Language), CSS (Cascading Style Sheets), and JavaScript programming languages so they can create effective and responsive web sites. They will also study the principles of professional design to apply them to those sites.

Online Art

Creative Process

Grade Level: 10-12

Course Credit: 0.5 Credits (Fall Semester only)

Prerequisite(s): None

Description: This course will allow students to discover the creative process in a variety of art forms from theater, music, dance, cinema, game design, photography, sculpture, fashion, and architecture. Students will visit online galleries, create artworks, and research a contemporary artist.

Da Vinci Club

Grade Level: 10-12

Course Credit: 0.5 Credits (Fall Semester only)

Prerequisite(s): None

Description: Flying machines, hydraulic lifts, anemometers, canons, scuba gear, robotic knights are just a few of the inventions created by Leonardo da Vinci. What does it take to be an inventor? This hands-on course will explore how to use science, technology, engineering, art, and math (STEAM) to create innovative inventions, and will incorporate experimental activities that promote creativity and critical thinking.

Art and Architecture

Grade Level: 11, 12

Course Credit: 0.5 Credits (Spring Semester only)

Prerequisite(s): None

Description: Students will gain a better understanding of how cultural heritage and beliefs influence architectural style. They will evaluate and analyze various examples of architecture found in churches and castles in Germany as well as local architecture. Students will choose a style of architecture for inspiration and then use art and design skills to create authentic architectural blueprints, conceptual plans, and 3D models digitally and with paper products.

Digital Photography

Grade Level: 10-12

Course Credit: 0.5 Credits (Spring Semester only)

Prerequisite(s): None

Description: In this introductory course, students will learn the basic principles of digital photography and photography techniques to create works of art using a digital camera or phone camera.