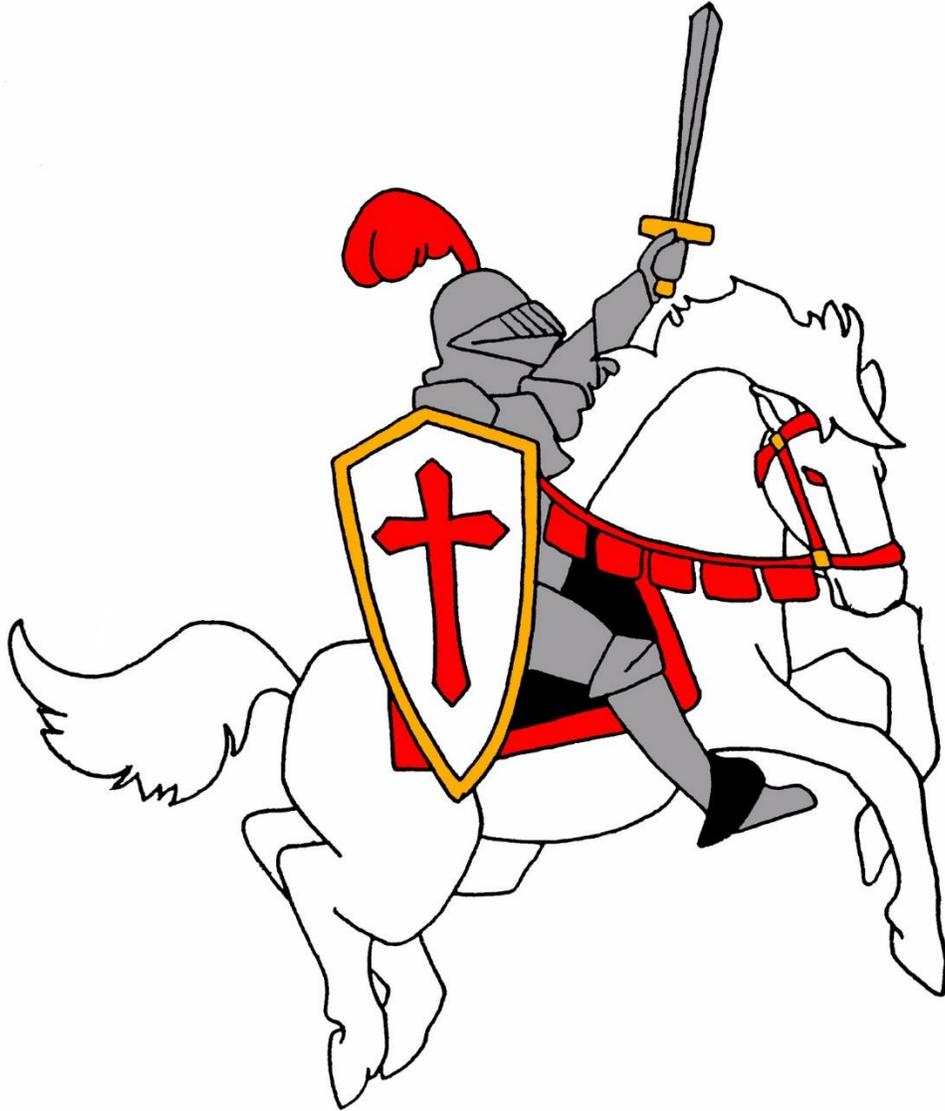


Lutheran High School Northwest Curriculum Guide



**Updated
3/7/2017**

Academic Program

Lutheran High Northwest offers a curriculum with required and elective courses in Art, Business Education, Computers, English, Foreign Language, Math, Music, Physical Education, Science, Social Studies and Theology. We emphasize academic studies for all students, with a focus on preparation for post high school education. We believe that our program serves the learning needs of a wide variety of student abilities, interests, and aptitudes. National studies, as well as leaders in education, business, and industry are encouraging high schools to stress the basics of education for all students. Northwest strives to offer each student a program that is challenging, yet serves the ability needs of the individual student.

Vocational Education

Vocational education is available for juniors and seniors at the Oakland Technical Center-Northeast Campus (OTC) in Pontiac, Royal Oak, and Clarkston. A variety of programs such as Cosmetology, Auto Mechanics, Early Childhood Education, Robotics, Medical, Dental and Electronics are offered. Informational meetings are offered to interested sophomores.

Graduation Requirements

One Unit is a full year or two semesters of a course.

24 units of credit (not including Theology)

Required in the 24 units:

- a. 4 units of English
- b. 3 units of Social Science, including 1 of US History and ½ of American Government
- c. 3 units of Math
- d. 3 units of Science
- e. 2 units of Fine Arts and/or Practical Arts
- g. 1.5 units of Physical Education
- h. 0.5 units of Health is required by the State.

- Credit must be earned in Theology each semester in attendance. Any failure in Theology must be made up during the following school year.
- To graduate a student must be in attendance for four years in some high school. Each graduating senior must be enrolled in a full program for the final semester of the senior year.
- The faculty, upon the recommendation of the Principal, must approve all graduates. A senior who receives more than one semester "F" grade in other than required courses must make up all but one of those courses before graduation privileges are granted.

Academic Counseling

Each student is encouraged to take a program of classes which is challenging, yet one in which the student can achieve success. Planning and evaluation of the full scope of high school is done yearly. Test scores, personal interests, academic ability, grade point average, and a variety of other factors are considerations in academic counseling. A 4-point scale is used in calculating current semester and cumulative grade point averages (4=A, 3=B, 2=C, 1=D, 1=S, 0=F). Honors courses are on a 4.5-point scale. Advanced Placement courses are on a 5-point scale.

An Academic Seminar class is available to assist students in the organization and completion of curriculum course work. Course pre-requisites may include, but are not limited to placement test scores, previous academic records, professional recommendation, and Lutheran High School administrative approval. A student who is currently registered with Recordings for the Blind and Dyslexic and provides identification information to the coordinator, may request the coordinator's assistance in ordering of recorded texts.

What Courses Should I Take?

Students in high school take both required and elective courses. Lutheran High Northwest desires its students to develop a variety of skills, abilities and interests. School is a place for a young person to worship God with the mind and the body. Developing the totality of one's God-given potential should be a goal of every young person. Students who enroll are

encouraged to take such a program of study. We want every student to grow intellectually, spiritually, physically, socially, and emotionally. We meet with students and families to review the course of study selected. A quality high school education demands a plan of study and activity, which challenges personal abilities and encourages academic success. As a guide, the State of Michigan has a required academic curriculum for future college students and it includes the following courses: English (4 years), Social Studies (3 years with 1 year of US History and 1 semester of American Government), Math (3-4 years starting with algebra) and Science (3 years). To be most prepared for the college entrance tests (ACT/SAT) it is advantageous to have taken or be taking by the junior year, chemistry and advanced algebra. It is highly recommended that college-bound students take 2-3 years of a foreign language and one year of computers.

Course Offerings

Theology

Theology 9/10 – Old Testament Studies

Required of all Freshmen/Sophomore Students

Grades: 9/10

2 semesters

This course provides a chronological overview of the Old Testament. It contains a strong emphasis on God's covenant people and on their response to God's covenant. This course is required in either the Freshman or Sophomore year, depending on time of enrollment. It fulfills two semesters of required credit for Theology.

Theology 9/10 – New Testament Studies

Required of all Freshmen/Sophomore Students

Grades: 9/10

2 semesters

The Bible is God's book. Its entire writings center on Jesus Christ as the only way to salvation and eternal life God has made available for all people. This course will provide the student with an introduction to and an overview of the Bible. The student will also study the life and ministry of Jesus from the Gospels. Finally, the student will be involved in an in-depth study of selected chapters of the New Testament. This course is required in either the Freshman or Sophomore year, depending on time of enrollment. It fulfills two semesters of required credit for Theology.

Living the Faith (Worldviews)

Required of all Juniors/Seniors

Grades 11/12

2 semesters

This course is designed to provide youth with protection from being deceived by anti-Christian worldviews. Additionally, it is "offensive" in nature; that is, it is designed to train Christian leaders who can actively champion the truth of Christianity in a culture of relativism, paganism, hedonism, and confusion. This course is required of all students in the 11th and 12th grades, depending on time of enrollment. It fulfills two semesters of required credit for Theology.

Understanding the Faith (Christian Doctrine)

Required of all Juniors/ Seniors

Grades 11/12

2 semesters

The focus of this course is the life of the young Christian in the world. The first semester of this course is primarily an inductive approach to the study of Christian doctrine. The second semester consists of "applied" Christian doctrine. Contemporary ethics and morality will be studied in the light of the Christian gospel and Christ-centered living. This course is required of all students in the 11th and 12th grades depending on time of enrollment. It fulfills two semesters or required credit for Theology.

Honors Doctrine

Dept. Approval/Pastor Approval/English Dept. Approval Minimum 3.25 GPA
2 semesters

Grades 11/12

The focus of this course is the life of the young Christian in the world. The first semester of this course is primarily an inductive approach to the study of Christian doctrine. The second semester consists of "applied" Christian doctrine. Contemporary ethics and morality will be studied in the light of the Christian gospel and Christ-centered living. A component of formulating a theological thesis along with an oral defense of the thesis challenges the student to think comprehensively of the theology content learned throughout one's high school career.

Career & Technical Education

Business Administration/ Leadership and Supervision in Business (Online)

Grades 11, 12

Prerequisite: None

2 semesters

This course will provide a clear understanding of the characteristics, the organization, and the operations of business. Semester 1 is an intro to business management overview; semester 2 is an intro to marketing overview.

Digital Media

Grades 9, 10, 11, 12

Prerequisite: None

2 semesters

Digital media are any media that are encoded in a machine-readable format. Digital media can be created, viewed, distributed, modified and preserved on digital electronics devices. Computer programs and software; digital imagery, digital video; video games; web pages and websites, including social media; data and databases; digital audio, such as mp3s; and e-books are examples of digital media.

Coding

Grades: 10, 11, 12

Prerequisite: Geometry

2 semesters

Coding, in the simplest of terms, is telling a computer what you want it to do, which involves typing in step-by-step commands for the computer to follow. Computers are not clever things, however they are very obedient. They will do exactly what you want them to do, so long as you tell them how to do it correctly.

Learning to code has been likened to learning a foreign language, or perhaps more specifically a family of foreign languages. There are many different coding languages, each one designed with certain things in mind. Examples include C, a 'low level' but fast programming language that is good for anything graphically intensive like games; Javascript, which was specifically designed for dealing with web content; and Perl, a multi-functional language that is often referred to as the 'swiss army knife' of programming.

AP Computer Course A

Grade: 11, 12

Prerequisite: Advanced Algebra

2 semesters

AP Computer Science A is equivalent to a first-semester, collegelevel course in computer science. The course introduces students to computer science with fundamental topics that include problem solving, design strategies and methodologies, organization of data (data structures), approaches to processing data (algorithms) analysis of potential solutions, and the ethical and social implications of computing. The course emphasizes both object-oriented and imperative problem solving and design using Java language. These techniques represent proven approaches for developing solutions that can scale up from small, simple problems to large, complex problems. The AP Computer Science A course curriculum is compatible with many CS1 courses in colleges and universities.

Microsoft Office

Grades 9, 10, 11, 12

Prerequisite: None

2 semesters

This course will lead to increased proficiency in Microsoft Word (word processing), Excel (spreadsheet), and Access (database), the three most common productivity applications. If time allows, Microsoft PowerPoint (presentation) and Publisher (desktop publishing) are introduced.

Visual Basic

Grades 9, 10, 11, 12

Prerequisite: Successful completion of Algebra

2 semesters

Students will learn programming in Visual Basic. Logical and sequential thinking are emphasized in program construction and program-problem solving.

Web Design

Grades 11, 12

Prerequisite: None

2 semesters

This course focuses on the media of web pages, graphics, and animations. Students study webpage and website creation and management. Adobe Dreamweaver (webpage and website construction), Adobe Fireworks (graphic design and editing), and Adobe Flash (webpage animation) are used. This course cannot fulfill the English graduation requirement.

Web Design II

Grades 11, 12

Prerequisite: Completion of Media

2 semesters

Prerequisite: Instructor approval

This course focuses on selected aspects of production on the Lutheran Northwest web site (<http://www.lhnw.lhsa.com/>). Adobe Photoshop (bitmap photo editing and cropping) and Adobe Illustrator (vector graphic construction and editing) are used. In addition, Adobe Dreamweaver, Microsoft Word and Excel, and Adobe Acrobat (.pdf formatting) may be used to complete various tasks in webpage creation.

Yearbook

Grades 11, 12

Prerequisite: Instructor approval

2 semesters

This course focuses on producing the Lutheran Northwest yearbook, the *Cruzada*. Adobe InDesign (desk-top publishing) and Adobe Photoshop (bitmap photo editing) are used; Adobe Illustrator (vector graphic construction and editing) may also be used. Enrollment is limited, and the course **may not be taken twice**. This course cannot fulfill the English graduation requirement.

Accounting I

Grades 10, 11, 12

Prerequisite: None

2 semesters

The material in Accounting I gives the student a thorough background and understanding of the basic accounting procedures used to operate sole proprietorships / partnerships. Students will learn the basic accounting principle (assets = liabilities + owners' equity) and learn how to apply daily business transactions to the general ledger accounts and create financial statements. The accounting procedures serve as a sound background for employment in office jobs and preparation for studying business courses in college.

Accounting II

Grades 11, 12

Prerequisite: Successful completion of Accounting

2 semesters

The material in Accounting II advances the student from the basics of sole proprietorships / partnerships in the complex environments of Corporations and Not-For-Profit Organizations. Special emphasis is placed on budgeting and spending; time value of money; accounting for property, plant and equipment, intangible asset allocations (i.e. profit sharing / shareholder distributions) as well as inventory, notes payable and receivable reconciling General Journal entries to General Ledger entries and end of month reconciliations and liquidation of partnerships.

English

English 9

Grade 9

Required of all Freshmen

2 semesters

Students work to develop necessary communication and study skills through the study of literature and development of writing, speaking, and organization skills. Practical skills in the areas of grammar and usage are also improved. Prewriting strategies will be taught to generate, focus, and organize ideas. Students will learn to select and use language that is appropriate, while learning informal and formal writing styles. A range of genres will be utilized for reading and writing purposes, such as: fiction, drama, poetry, and short stories. Sentence structure, paragraphing, and basic essay styles will be taught.

English 10

Grade 10

Required of all Sophomores

2 semesters

Students build on the foundations of knowledge established in English 9 to further their command of the language. Skills are developed primarily through writing practice and the discussion of literature. The use of prewriting and pre-reading strategies will be utilized, such as brainstorming and mapping. More complex writing formats will be taught to develop clear concise sentences, well-formed paragraphs, the process to writing an essay, and the knowledge to complete a research paper. Novels, plays, poetry, and short stories will be read.

Honors English 10

Grade: 10

Prerequisite: Earned A in English 9 and Department Approval 2 semesters

This course is a two-semester, college-preparatory course for high-achieving sophomores. Main content of the course is American and English literature, essays, drama novels, poetry, short stories, speech and literary research techniques. Students are involved in literary discussion, writing and rewriting as regular activities. Intensive outside reading is required as well as written essays and literary analysis. A novel is assigned during the summer before the class begins and students are required to have it completed before day one of the sophomore year.

English 11

Grade 11

Required of all Juniors

2 semesters

This course will concentrate on American Literature from Native American writings to modern day American Literature. Novels, short stories, journals, a drama, and poetry will be read and discussed. Sentence style will be a focus, as well as writing proper paragraphs, and the development of the five paragraph essay. Types of essay writing include, but are not limited to; expository, characterization, theme, literary response, and persuasive forms. Also within the course, throughout the school year, speech will be of focus in addition to reading and writing. This third dimension will help students develop the skills of effective communication through a variety of formal and informal speaking situations. Students will also hear and read examples of speeches to enhance their abilities to speak formally and informally. Also students will develop the skills needed to become more effective listeners.

Honors English 11

Grade 11

Prerequisite: Departmental Approval, 3.0 English GPA 2 semesters

This course is an accelerated writing and reading class, with focus on American Literature. Numerous essays and research projects are assigned on a regular basis. There is also a mandatory summer novel reading assignment and summer essays assigned which are to be turned in at the start of the school year. Some of the essay forms that are taught are: writing to compare/contrast, descriptive, persuade, narrative, theme, symbolism, tone, characterization, and interpretative essays. Novels, plays, poetry, and short stories will be read along with focusing on a higher level of reading comprehension skills. Speaking formally and informally is also instituted within the year course. A 4.5- point scale is used.

AP English Language and Composition

Grade 11 Prerequisite: Department Approval, 3.0 English GPA 2 semesters

This advanced course will focus on non-fiction texts, analytical skills, rhetorical skills and argumentative writing and speaking. Ideally, this course will be followed with AP English Literature and Composition in order to fully develop English skills. AP Lang. is a different type of English course that is ideal for students wanting to pursue science, law, or medicine.

English 12

Grade 12

Required of all Seniors

2 semesters

English Literature and Composition: The focus of this course is on British Literature and composition. Students will have the opportunity to explore and discuss dramas, poetry, novels, and short stories. Also the student will be taught to be a more effective writer, and participate in the composing and peer editing of various styles of essay writing. Some essay styles that will be taught include: writing narratives, cause/effect, persuasive, compare/contrast, characterization, a resume, satire/irony, and a college admittance essay. Reading and interpretation skills will also be a focus.

AP English Literature

Grade 12

Prerequisite: Departmental Approval, 3.0 English GPA

2 semesters

Advance Placement English is designed for the college bound student looking for a challenge and is taught much like a college class with focus on individual preparation and achievement. Students with a 3.0 English GPA and departmental approval are encouraged to take this class. An emphasis is placed on analytical skills and higher level thinking through discussion, a high level of literary analysis, and the development of the thesis paper. Students taking this course are expected to take the AP English test, and the class is geared toward preparation for the test. Also, a mandatory summer novel and summer essays are required to be completed before the beginning of the school year. A five-point scale is used (weighted grade).

Fine Arts

Introduction to Art

Prerequisite: None

2 Semesters

The emphasis of this introductory course is improving skills and developing a basic understanding of the Elements and Principles of Design. Fundamental artistic skills and knowledge are developed as the student is exposed to a variety of different media and work from past and current artists. Students develop the ability to analyze and interpret works of art and gain an appreciation for art and its integral role in life and culture.

Drawing and Painting

Prerequisite: Intro to Art

2 Semesters

This course is designed to further refine the students' drawing and painting abilities and aid them in the development of a personal style. Students work in a variety of drawing (pencil, colored pencil, charcoal, chalk, and ink) and painting (watercolor, acrylic, oil pastel and tempera) media to develop their abilities to accurately portray the world around them. Students enhance their analytic and interpretive abilities through discussion of past and current artists. Weekly sketchbook work is used to develop skills and creativity.

Mixed Media and Printmaking

Prerequisite: Intro to Art

1 Semester (First Semester - Paired with 3D Design)

This course is designed to give the student opportunities to expand their knowledge and skill in the use of two-dimensional media. Students are given different graphic challenges to meet in the areas of drawing, painting, photography, printmaking, computer graphics, and mixed media. Special emphasis is placed on intentional design and the communicative aspects of art. As students use photography as a semester-long means of studying design, a digital camera and flash drive is required for class.

3D Design

Prerequisite: Intro to Art

1 Semester (Second Semester - Paired with Mixed Media and Printmaking)

This course is designed to give the student opportunities to expand their knowledge and skill in the use of three-dimensional media. Students engage in creative activities working with such three-dimensional mediums as craft sticks, plaster, clay, wood, wire, cardboard, paper, found objects, etc. Students develop concern and understanding in their sculptures for form, construction, and content. Students learn about the history and function of sculpture through the study of past and current sculptures and architectural works. 3rd quarter focuses on sculpture, while 4th quarter focuses on architecture.

Ceramics 1

Prerequisite: Intro to Art

2 Semesters

This course provides students an in-depth study of ceramics. Students experience a variety of means of working with clay including sculpture, hand building with coils and slabs, using molds, and throwing ware on the potter's wheel. Students also experiment with different decorative processes and are instructed in the firing process. Students learn about the history and function of ceramics through the study of past and current artists.

Independent Study Art Portfolio

Prerequisite: 6 semesters of art, B+ or better average in art classes, instructor approval

Duration: Offered every semester, may be taken more than once

This course is an independent study class for senior students where an individualized curriculum will be developed with the instructor relative to the student's interests and abilities. Students who are interested in pursuing an art-related career are aided in developing a functional portfolio within the school day. The intent of this course is to assist the student in developing a strong self-concept and to encourage self-expression and creativity. Media experimentation is encouraged, though the students may concentrate in specializing in one specific area of study.

Women's Chorus

Grades 9 - 12

Non-audition

2 semesters

Using the gifts God has given them, students in Women's Chorus will develop basic skills necessary for success in the choral arts. The chorus will learn elements of sight-reading, music notation, music theory, music history, and vocal technique.

Men's Chorus

Grades 9 - 12

Non-audition

2 semesters

Using the gifts God has given them, students in Men's Chorus will develop basic skills necessary for success in the choral arts. The chorus will learn elements of sight-reading, music notation, music theory, music history, and vocal technique.

Concert Choir

Grades 9 - 12

Audition Only – no prerequisite class

2 semesters

A Cappella Choir provides students with another opportunity to glorify God through song. The student in this group will consistently model a strong effort to improve as an individual musician and show a dedication to making excellent music with the choir as a whole. Emphasis in this group is to further develop existing knowledge of sight-singing, vocal technique, rhythmic sense, musical style interpretation, and phrasing. It is expected that students wishing to audition at this level have some solid sight-singing training and musical background, as they will need to use this skill immediately at the beginning of the year. This choir requires a strong time commitment as the group joins local congregations in worship services, performs at Northwest Music Department concerts, and act as witnesses for the Christ through music on a choir tour in the spring.

Concert Band

Grades 9,10,11,12

Prerequisite: Director Approval, Audition

2 Semesters

Students in the Concert Band will increase their love for music and their ability on their instruments. They will understand musical concepts, vocabulary, and different musical styles, which in turn will enhance their creative output in class. They will become aesthetically sensitive and appreciate better the gift of music. The students will be encouraged as individual players, which will improve the performance of the group.

Foreign Language

German I (Online)

Grades 9, 10, 11, 12

Prerequisite: Approval based on HSPT scores

2 semesters

German I is an introduction to the German language, the German speaking people, and the German way of life. Listening, speaking, reading and beginning writing skills will be developed. A wide variety of classroom activities will be used to teach students to express needs, ideas, and feelings in both spoken and written German. All foreign language students are encouraged to take 2 years minimum of the language.

German II (Online)

Grades 9, 10, 11, 12

Prerequisite: C or better in German II or Department Approval

2 semesters

In German II, students significantly increase their skills of listening, speaking, reading and writing studied in German I. Students have many opportunities to improve these skills by acting out skits, having conversations in small groups, and composing their own writing. A greater understanding of the daily life experiences and the cultural heritage of the German-speaking people is emphasized.

German III (Online)

Grades 10, 11, 12

Prerequisite: C or better in German II or Department Approval

2 semesters

German III concentrates on the fluency of the language. Various short literary and journalistic reading selections are used as a point of departure for class discussions, compositions and oral presentations. The culture of the German-speaking people will be studied in greater detail. When necessary, aspects of grammar will be presented. Students must purchase a German-English dictionary. (Check with the teacher as to the type of dictionary).

German IV (Online)

Grades 10, 11, 12

Prerequisite: C or better In German III or Department Approval

2 semesters

German IV is an advanced course in which the individual's challenge in speaking and writing is emphasized. Advanced aspects of grammar will be presented. Readings include a short novel, plays, short stories, and articles from various sources. Students must have a German-English Dictionary.

Spanish 1

Grades 9, 10, 11, 12

2 semesters

Spanish 1 will provide the student with a general introduction to the Spanish language: sound system, pronunciation, and functional vocabulary related to everyday life, cultural information and basic grammatical structures. Emphasis will be on the acquisition of four skills: listening, speaking, reading and limited writing. There are two main objectives to the course. Foremost is to give the students the ability to carry on a simple conversation. The second is to provide the students with instruction that teaches a basic understanding of Spanish culture, vocabulary, and grammatical concepts.

Spanish 2

Grades 9, 10, 11, 12

Prerequisites: Spanish 1 or instructor approval

2 semesters

Spanish 2 builds upon knowledge gained in Spanish 1. This course will also reinforce the skills learned in Spanish 1: listening, speaking, reading and writing. Emphasis is on perfecting pronunciation, mastery of basic grammatical structures, and increased communicative proficiency. Acquisition of functional vocabulary is expected. Students will be exposed to the past, future and conditional tenses, and will be expected to apply them in their writing and speaking.

Spanish 3

Grades 10, 11, 12

Prerequisites: Spanish 1 & 2, or instructor approval

2 semesters

Spanish 3 is a continuation of knowledge acquired in Spanish 1 & 2, as well as an introduction to new vocabulary, structures and expressions. Students will be expected to expand their vocabulary range to include more sophisticated terms, use advanced language expressions, verb tenses and grammatical concepts, such as the pluperfect and the subjunctive mood. Students will also view Spanish language films and read selected Spanish literature.

Spanish 4

Grade 12

Prerequisites: Spanish 1, 2 & 3, or instructor approval

2 semesters

Spanish 4 is designed to (1) practice and refine speaking ability with an emphasis on conversational skills; (2) teach and practice more advanced grammar skills; (3) expose students to literary texts in Spanish; (4) further improve reading comprehension and writing skills; (5) further increase knowledge of the culture, literature, art and music of the countries where Spanish is spoken.

Mathematics

Elementary Algebra I

Grades 9, 10

Prerequisite: Placement based on HSPT scores

2 semesters

Students are introduced to concepts of algebra and geometry and simultaneously solidify their grasp of arithmetic concepts and procedures. Students explore and make connections within individual concepts and procedures, as well as across different topics in mathematics. Students will also build their estimation, problem solving, and critical thinking skills for higher mathematics.

Elementary Algebra II

Grades 9, 10

Prerequisite: Completion of Elementary Algebra I

2 semesters

Students are introduced to concepts of algebra and geometry and simultaneously solidify their grasp of arithmetic concepts and procedures. Students explore and make connections within individual concepts and procedures, as well as across different topics in mathematics. Students will also build their estimation, problem solving, and critical thinking skills for higher mathematics.

Algebra

Grades 9, 10, 11, 12

Prerequisite: Successful completion of pre-algebra or acceptable HSPT scores 2 semesters

Problem solving is introduced early in this course and is integrated during the entire year. Applications of algebra are presented throughout the course as well. Reasoning skills, such as analyzing information, making conjectures, and presenting convincing arguments are developed throughout the course. Geometric models are used to illustrate abstract algebraic concepts.

Geometry

Grades 9, 10, 11, 12 Prerequisite: Successful completion of algebra or acceptable HSPT scores 2 semesters

This course is designed for the math student who wants to continue beyond Algebra I, which is a prerequisite. Topics of the first semester include deductive reasoning, proofs, parallel lines, congruent figures and ratio & proportion. Topics of the second semester include the Pythagorean Theorem, elementary trigonometric functions, circles, constructions, loci, areas, volumes, coordinate geometry, vectors and transformations.

Honors Geometry

Grades 9, 10 Prerequisite: Successful completion of Algebra/acceptable HSPT scores & Dept. Approval
2 semesters

The same topics are covered in the course as are listed for Geometry. The pace is the same but homework assignments include more challenging problems. There is a project each quarter, with a research paper completed during the 3rd quarter.

Business Math & Personal Finance

Grades 11, 12 Prerequisite: 2 previous math classes 2 Semesters
(i.e. Algebra, Geometry, Advanced Algebra)

The material in Business Math & Personal Finance will focus on the development of mathematical skills that are essential in helping students prepare for their future roles as Christians, citizens, consumers, employees and employers. The student will gain an understanding of how the world economy impacts business by learning and applying basic mathematical skills to everyday business activities including managing their money and expenses; making basic financial decisions; understanding the value of money in today's market and the future value of money; when to borrow / use credit and when to postpone purchases. Additionally, students should be able calculate gross and net pay for hourly, salaried, commissioned, and piece rate employees; determine total fringe benefits; write, edit and revise various banking documents including deposit / withdrawal and monthly bank reconciliation.

Advanced Algebra

Grades 9, 10, 11, 12 Prerequisite: Successful completion of Geometry 2 semesters

This course is designed for the serious math student, who wants to continue beyond Algebra I, which is a prerequisite. Geometry is strongly recommended. Topics of the first semester include a review of Algebra I, inequalities, linear equations, polynomials, rational and irrational numbers, quadratic equations, and polynomial equations. Topics of the second semester include analytic geometry, logarithmic and exponential functions, and an introduction to trigonometry.

Honors Advanced Algebra

Grades 9, 10, 11, 12 Prerequisite: Successful completion of Geometry & Department Approval 2 semesters

This course is designed for the serious math student, who wants to continue beyond Algebra I, which is a prerequisite. Topics of the first semester include a review of Algebra I, inequalities, linear equations, polynomials, rational and irrational numbers, quadratic equations, and polynomial equations. Topics of the second semester include analytic geometry, logarithmic and exponential functions, sequences and series, an in-depth study and analysis of trigonometry, and statistics.

Statistics

Grades 11, 12 Prerequisite: Successful completion of Advanced Algebra 2 semesters

Any mathematics student who has completed two years of algebra and a year of geometry will benefit from taking this course. It is an introduction to the study of statistics. Major topics include producing data (measurement, sampling, and experimentation), organization of data (description and display), chance and probability, and inference using confidence intervals and, time permitting, the chi-square test.

PreCalculus

Grades 11, 12 Prerequisite: Successful completion of Advanced Algebra 2 semesters

This course is designed for the serious math student, who wants to continue beyond Geometry and Algebra II, which are prerequisites. Topics of the first semester include functions & graphs and their applications, conic sections, and an in-depth study of trigonometry. Topics of the second semester include discrete mathematics (series, matrices, probability and statistics), limits of functions, and curve sketching. Because of the extent of the content, this course is tough!

A.P. Calculus

Grade 12

Prerequisite: Successful completion of PreCalculus

2 semesters

This course is designed for seniors who are interested in solid preparation for college mathematics. It is intended for superior mathematics students who have completed two years of algebra, a year of geometry and a year of PreCalculus. Topics of PreCalculus will be reviewed and expanded. Derivatives, integration, applications, and series will be examined in detail. This course is the equivalent of approximately 2 semesters of college calculus and will prepare students to take the advanced placement calculus BC (2nd semester) exam in May.

Physical Education

Physical Education 9/10

Grades 9, 10

Required

1 semesters

Emphasis in this class will be on physical fitness and the development of coordination. The activities are team oriented. Fundamental skills and strategies are stressed. All activities are designed to develop an appreciation of the body as a gift of God. Softball, volleyball, football, basketball, soccer, speedball, floor hockey, aerobics and recreational games are offered. Physical fitness and body development are charted.

Team/Individual Sports 9/10

Grades 9, 10

Prerequisite: None

2 semesters

1st Semester

This sophomore level class will continue to emphasize team sports along with the addition of some individual activities. Students will participate in activities such as: badminton, gymnastics, weight lifting, fitness, floor hockey, and flag football.

2nd Semester

This sophomore level class will give the students more choices of team and individual activities. Students will participate in track and field, wrestling, lacrosse, basketball, and others.

Lifetime Sports

Grades 11, 12

Prerequisite: None

2 semesters

This coed class will be participating in activities that can be continued throughout life. There will be a strong emphasis on physical fitness in this class. Students will be required to take notes at times and be tested on some basic aspects of physical training and the effects on the body. Activities will include aerobic training (jogging, aerobics and in-line skating), tumbling, flexibility and agility exercises) intensive weight training, softball, golf and volleyball.

Personal Fitness

Grades 11, 12

Prerequisite: None

2 semesters

This upper level class is an intense study of the muscles of the body. Physical training, including weight lifting and aerobic exercise are a daily part of this class.

Health

Grade 9, 10

Required

1 semester

This course is planned to help students understand human development. The class explores personal decision-making and examines the impact of the environment on life style. Unit topics, taught from a Christian perspective, will include personal relationships, alcohol, drugs, emotional health, foods and smoking.

Science

Biology

Grade 9

2 semesters

Prerequisite: None

Biology is the science of life, introducing students to the structures and functions of living organisms while instilling an appreciation for God's creation. Many topics will be explored throughout the year, from cellular processes to organisms and their ecological relationships. Students will study the natural world through lectures, laboratory experiments, discussion and projects.

Physical Science

Grades 10, 11, 12

2 semesters

Prerequisite: Recommended for students with a grade of C+ or lower in either semester of Biology

Physical Science is a laboratory course designed to give students a beginning knowledge of chemistry, to offer insights into the means by which scientific knowledge is acquired, to encourage the exercise of reasoning skills, and to allow for the development of useful laboratory skills. Furthermore, the course is designed to increase the knowledge and appreciation for the world God created.

Honors Chemistry

Grades 10, 11, 12

2 semesters

Prerequisite: B- or better in both semesters of Biology OR C or better in both semesters of Physical Science and Department Approval

Honors Chemistry is a laboratory science, which studies inorganic chemistry, chemical laws and theories, atomic and molecular structure and organic chemistry. It is designed to increase the knowledge and appreciation for the world God created. It is for students who have a strong background and interest in science. Because mathematics is the language of science, a basic understanding is necessary.

Environmental Science

Grade 11/12

2 semesters

Prerequisite: Department Approval

Students will develop an understanding of the scientific principles, concepts and methodologies of Environmental Science. Those skills will be applied as students study the interrelationships between the created and human-made world with a focus on the environmental challenges the world faces. Topics studied include environmental quality, plant systems, human resources, conservation, pollution, and ecosystems.

Conceptual Physics

Grades 11, 12

2 semesters

This course provides a conceptually-based exposure to the fundamental principles and processes of the physical world. Topics include motion, forces, energy, gravity, heat, electricity, magnetism, relativity, sound and light. Laboratory experiments and projects enhance the understanding of basic physical principles and applications.

Honors Anatomy & Physiology

Grades: 11/12

2 semesters

Pre-requisites: Biology, Honors Chemistry, AP Biology (either concurrently or previously taken)

Honors Anatomy and Physiology introduces basic concepts and principals important to an understanding of the human body. This course will present essential information dealing with the structure and function of the human body. Those pursuing careers in the medical field will acquire basic information to be integrated into future classes. Those seeking careers outside the biomedical field will gain knowledge and understanding of the human body that will prove valuable for life and health. Laboratory experiences, writing and reporting will be incorporated into evaluations. Biomedical professionals will provide hands-on experiences and education throughout the course. The class requires an internship/ volunteer work experience with a local hospital and/ or medical professional. The class includes field trips, guest speakers, and authentic hands-on lessons and assessments.

Honors Physics

Grades 11, 12

2 semesters

Prerequisite: C or better in both semesters of Honors Chemistry and Department Approval.

Honors Physics is an advanced laboratory science that studies the physical world around us. It is designed to increase the knowledge and appreciation for the world that God created. It is for students who have a strong background and interest in science. Because mathematics is the language of science, a basic understanding is necessary.

AP Physics

Grade 12

2 semesters

Prerequisite: B average or better in Honors Physics and /or Departmental Approval.

Advanced Placement Physics 1 provides the student a thorough understanding of the basic concepts of physics and prepares them to use physics in their own lives and professions. Students enrolled in this course are expected to take the Advanced Placement Physics 1 Test in the spring. Students are expected to work independently.

AP Biology

Grades: 11/12

2 semesters

Prerequisite: C or better in Biology and Honors Chemistry and Department Approval

AP Biology is a laboratory course designed to be the equivalent of a college introductory biology course taken by biology majors during their first year. The AP Biology course differs significantly from the first high school course in biology with respect to the range and depth of topics covered, the kind of laboratory work done by students, and the time and effort required of students.

AP Biology aims to provide students with the conceptual framework, factual knowledge, and analytical skills necessary to deal critically with the rapidly changing science of biology. The two main goals of AP Biology are to help students develop a conceptual framework for modern biology and to help students gain an appreciation of science as a process. Eight major themes recur throughout the course. These themes will be emphasized to assist students in organizing concepts and topics into a coherent, conceptual framework. Students enrolled in this course are expected to take the AP Test in the spring.

Social Studies

World History

Grades 9, 10

Prerequisite: None

2 semesters

This is a survey course of the history of the world from creation to present day. It explores key events and global historical developments that have shaped the world we live in today. Other topics, such as geography, economics, politics, and religion, are included throughout the course. Students will look for patterns of civilization growth, cause and effect relationships, historical trends and themes, and explore God's hand in the history of our world. Using the material in this course, students will develop and improve their skills in reading comprehension, summarizing, evaluating information, comparing and contrasting, map reading, and expressing facts and opinions orally. Some of the topics covered are as follows: Creation, cradle civilizations, ancient classical civilizations, Middle Ages, Renaissance, Revolutions, World Wars I and II, Cold War, and recent changes in Europe. Although the emphasis is on Western Civilization, Eastern Civilization information is included.

United States History

Grades 10, 11

Prerequisite: None

2 semesters

U.S. History is a required class for juniors. Students will study the history of the United States from its colonization through present day. We are blessed to live in one of the greatest nations in the history of the world. By studying our history, we come to appreciate how all of this began and learn to respect those who helped make it this way. This course is recommended before AP US History.

AP US History

Grade 11

Prerequisite: Department Approval, 3.0 Social Studies GPA

2 Semesters

In depth study of American history, involves primary source and outside readings, and essays. Students taking this course are expected to take the AP exam. The class is geared toward preparation for the test. There are mandatory summer assignments, round one completed in July, and the second round completed at the start of the school year.

American Government

Grade 12

Prerequisite: Required of all Seniors

1 Semester

American Government is a required class for seniors. Students will study the nature and function of national, state, and local government. Basic principles underlying a democracy are examined. We will study the Constitution of the United States and the government that has evolved from it. This course is offered only in the first semester.

AP Government

Grade 12

Prerequisite: Department Approval, 3.0 S.S. GPA

2 Semesters

This course serves as an introduction to the United States national government. It is taught with the conviction that students want to know not only who governs, but also what difference it makes who governs. In short, the course will be taught to demonstrate to students how our governmental institutions and political processes work, and help explain why some policies and not others are adopted. Students taking this course are expected to take the AP exam. The class is geared toward preparation for the test. There are mandatory summer assignments, round one completed in July, and the second round completed at the start of the school year.

Economics

Grade 12

Prerequisite: None

1 semester

Economics is the study of how societies allocate limited resources to satisfy unlimited needs and wants. The course focus is microeconomics. Students will examine the two major types of economic systems with a concentration of the United States' system of free enterprise. We will study basic principles such as scarcity, supply and demand, the price system, business operations, competition and markets, etc. This course is an elective and is offered only in the second semester as a follow-up to American Government.

Psychology

Grades: 11, 12

Prerequisite: None

2 semesters

This course is an introduction to the basic concepts of psychology. While learning how to apply psychological principles to their Christian daily life; each student will investigate modes of learning, thinking, memory, perception, motivation, emotion, and human development. Course requirements include daily reading, psychological research, analysis of behavior and development, and trends in modern psychology. Second semester topics include motivation, intelligence, personality theory, psychological disorders, abnormal behaviors and therapies. Students are expected to design and conduct basic psychological research as well as learn APA style.

AP Psychology

Grade: 12

Prerequisite: Successful Completion of Psychology & Instructor Approval

2 Semesters

The Advanced Placement Program offers a course and exam in psychology to qualified students who wish to complete studies in secondary school equivalent to an introductory college course in psychology. The AP Psychology course is designed to introduce students to the systematic and scientific study of the behavior and mental processes of human beings and other animals. Students are exposed to the psychological facts, principles, and phenomena associated with each of the major subfields within psychology. They also learn about the ethics and methods psychologists use in their science and practice.

Academic Seminar Class

Prerequisite: Participation in the Academic Seminar class may be based on, but is not limited to the following: placement test scores, previous academic record, professional recommendation, and Lutheran High School administrative approval. The Academic Seminar class period is designed to assist the student in organization and completion of curriculum course work.

Students participating in the Academic Seminar class period are required to: Maintain a daily assignment log, acquire daily signatures from parents on the log, discuss logged course work with the Academic Seminar class teacher on a daily basis, work on task for at least 95% of the time the student is in the Academic Seminar class period, and come to class with all materials needed to complete the course work for the class hour.

The Academic Seminar class is a graded and credited class. A .5 credit is earned for each semester completed. The grade earned in the Academic Seminar class does not apply to the student's grade point average.

On-Line/Independent Study Courses

Students may take "on-line" courses, or independent study courses, from accredited colleges/universities or institutions with prior approval of the principal. Courses offered by the school may not be taken as "independent study/on-line" except in the case that there is no other way for the student to achieve credits necessary to graduate. The Lutheran High School will determine/approve the beginning and ending date of the course, in order for the credit to be accepted. Cost for the independent study will be the responsibility of the student. Any exceptions must be appealed to the Superintendent through the principal.

Non-Credit Courses

Academic Seminar

Grades 9, 10, 11, 12 Prerequisite: None Non-credit Class 2 semesters

Students who need extra time to be successful academically may request an academic seminar. There must be academic need as well as the desire to use the study hall time wisely. School approval is necessary for any student desiring a study hall. The school also reserves the right to remove students from study hall who are not complying with study hall policies.

Office Aide Prerequisite: Departmental Approval Non-Credit Class 2 semesters

Teacher Aide Prerequisite: Departmental Approval Non-Credit Class 2 semesters

Interpretation of Grading System of Lutheran High School Northwest:

"A" Grade: Superior achievements, dependable work habits, consistent and commendable conduct, credit for the course, four (4) quality points.

"B" Grade: Above average achievement, good habits and conduct are reflected in the comments, credit for the course, three (3) quality points.

"C" Grade: Average achievement, work habits and conduct are reflected in the comments, credit for the course, two (2) quality points.

"D" Grade: Below-average achievement, work habits and conduct are reflected in the comments, credit for the course, one (1) quality point.

"F" Grade: Failure to make satisfactory effort, the student did not meet minimum standards, no credit granted, no quality points earned.

"S" Grade: Student abilities vary among individuals. After counselor, faculty and administration consultation, students with unique learning needs may be given special-adjustment status. The teacher will grade the student with the letter "S" when there is less than passing work but acceptable effort. **The "S" refers to satisfactory progress** and that the student has worked up to ability but is unable to meet minimum