



# **LUTHERAN NORTH**

**2019-2020**

**Course Catalog**

## **Art Courses**

Required: Two units of Fine Arts and/or Practical Arts and/or Foreign Language

### **Art Foundations**

Grades: 9,10,11,12

Duration: Year

Prerequisite: None

This class is the beginning art class and is intended to give the students a broad range of art experiences. The Intro student will have experiences in drawing, painting, art history, ceramics, design, printmaking, sculpture, and color theory. Since this is a fundamental class, the intent is to build interest and develop general skills in these areas.

### **Elements of Drawing**

Grades: 10,11,12

Duration: Semester

Prerequisite: Art Foundations

This class is designed to give the art student an in-depth study in drawing. The student will receive drawing experiences in pencil, colored pencil, Conté crayons, charcoal, pastels, pen and ink, and markers. The intent of this course is to expose students to a variety of mediums and to refine and hone drawing skills.

### **Elements of Painting**

Grades: 10,11,12

Duration: Semester

Prerequisite: Art Foundations

This class is designed to give the art student an in-depth study in painting. The student will receive painting experiences using watercolor, acrylics, and tempera paints. The painting student will learn a variety of techniques and ways to apply paints. The student will experiment with composition and color. The painting student will learn about the history of painting through the study of major artists and their works. The intent of this course is to expose the students to a variety of mediums and to refine and hone their painting skills.

### **Elements of Ceramics**

Grades: 10,11,12

Duration: Semester

Prerequisite: Art Foundations

This course is designed to give the art student an in-depth study in ceramics. The students will receive a variety of experiences, which include the history of clay, hand building with clay, working on the potter's wheel, glazing, and firing pottery. The student will experiment with form, construction, texture, coil, pinch, and slab methods of building along with a variety of glazing techniques. The intent of this course is to expose students to a variety of ceramic experiences and refine and hone their ceramic skills.

## **Elements of Sculpture**

Grades: 10,11,12

Duration: Semester

Prerequisite: Art Foundations

This course is designed to give the art student an in-depth study in sculpture. The student will have creative experiences working with such mediums as: matchbooks, craft sticks, plaster, clay, wood, wire, paris craft, cardboard, plexiglass, and found objects. The students will develop concern and understanding in their sculptures for form, construction, and content. They will develop a vocabulary for sculpture. The student will learn about the history of sculpture through studying slides of past cultures and famous sculptures. The intent of this course is to expose the students to a variety of sculptural experiences and refine and hone their sculpting skills.

## **Directed Studies Art**

Grade: 12

Duration: Semester

Prerequisite: Six semesters of Art and instructor's approval

This course is designed to give art students an opportunity to pursue their interests in art during their senior year. The class is an independent study class, whereby the student sits in another art class and contracts with the instructor the projects they will complete. The intent of the course is to allow the senior student who wants to study art but does not want to pursue an art related career the opportunity to produce artwork and refine and hone their skills.

## **Portfolio Art**

Grades: 11,12

Duration: Semester

Prerequisite: Six semesters of Art with a B+ average and instructor's approval

This course is designed to give art students an opportunity to develop a portfolio within the school day. The class is an independent study class whereby the student sits in another art class and contracts with the instructor the projects that they will complete. This course is only offered to students who are interested in pursuing an art-related career. The intent of this course is to assist the student in developing a strong self-concept, and to encourage self-expression through their creative work. The students are encouraged to be responsible for their own learning, exploration of mediums and self-critiquing. Media experimentation is encouraged even though the students may concentrate in one specific area of study.

## **Business Courses**

Required: Two units of Fine and/or Practical Arts and/or Foreign Language

### **Personal Finance**

Grades: 9,10,11,12

Duration: Year

Prerequisite: None

The context of this one-year course helps students to develop skills in managing their personal finances today and in the future and focuses on their development of critical knowledge and skills necessary for sound consumer decision-making in complex socio-economic environments. Areas of study include basic economics, financial planning, career exploration, budgeting, savings and investing, credit, and insurance. An extensive project allows students to individually experience many aspects of money management such as exploring careers and the cost of tuition, budgeting on a fixed income, buying a car, evaluating insurance options, location affordable housing, planning a vacation, and saving for the future.

### **Computer Science I**

Grades: 9,10,11,12

Duration: Semester

Prerequisite: None

This is a course in computer literacy, application, and programming. Students will work on formatting, spreadsheets, database software, and other word processing skills. Hardware and software terminology and computer ethics will also be covered.

### **Computer Science II**

Grades: 9,10,11,12

Duration: Semester

Prerequisite: Computer Science I

Students will continue learning to produce letters, reports, and tables while continuing to improve their speed and accuracy. The students will also be introduced to spreadsheet and database software. The course is designed so that students work through the textbook independently and develop their problem-solving abilities.

### **Marketing**

Grades: 11,12

Duration: Semester

Prerequisite: Personal Finance or instructor's approval

Serves as an introduction to basic business principles as they relate to marketing. Areas of concentration include the consumer, market research, product development, pricing, and distribution channels.

## **Retailing**

Grades: 11,12

Duration: Semester

Prerequisite: Personal Finance or instructors approval

Serves as an introduction to basic business principles as they relate to careers in retailing. Areas of concentration include starting a retail business, business organization and polices, planning merchandise, promotion, selling, and store operations.

## **Accounting**

Grades: 11,12

Duration: Year

Prerequisite: None

This course is designed for students interested in Accounting as a career and/or the preparation of financial records in business. Areas of concentration include financial accounting records for sole proprietorships, partnerships, and corporations.

## **English Courses**

Required: Four units

### **English Requirements**

Freshmen - English 9 (year course)

Sophomores - English 10/ or Honors English 10 (year course)

Juniors - English 11 or AP Language

Seniors - English 12 or AP Literature

### **English 9**

Grade: 9

Duration: Year

Prerequisite: None

Freshmen English is designed to increase vocabulary knowledge and use, review forms of grammar, introduce the elements and genres of literature, and develop writing and researching skills. New vocabulary is introduced weekly and strengthened through memorization and usage. Areas of grammar study include parts of speech, parts of the sentence, phrases, and clauses. Diagramming is also utilized to help augment visual learning strategies involved in the writing process. Literature is introduced through the study of short stories, mythology, drama, poetry and the novel. Writing skills are honed with an emphasis on several essay strategies and a research paper.

### **English 10**

Grade: 10

Duration: Year

Prerequisite: English 9

The sophomore year continues the study of grammar, composition and literature. Grammar focuses on reviewing sentence structure, usage and mechanics. Composition is emphasized with a variety of essay types and a research paper. Literature study includes class reading and analysis of a novel, a drama, short stories, non-fiction and poetry. Public speaking is also introduced by covering a variety of speech types and strategies. Vocabulary knowledge and application is studied throughout the year.

## **Honors English 10**

Grade: 10

Duration: Year

Prerequisite: Earned A in English 9 and Department Approval

Class size is limited to 28.

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

Duration Year

Prerequisite English 9 & 10

In English 11 students will cover the major authors and texts that represent and clearly illustrate what is unique and central to the American literary tradition. Students will read, study and discuss American literary movements, the historical reasons they exist, contributing authors and the literature that was produced during these movements. Consideration of the historical and cultural context of the movements, authors and works will be a primary focus. Students will be able to evaluate a text, analyze literature and explore related thematic topics, demonstrate logic and organization in writing and speaking, and write clearly and coherently. Students will learn and demonstrate the elements of revision and how they contribute to a final, cogent draft.

## **English 12**

Grade 12

Duration Year

Prerequisite English 9, 10, & 11

English 12 examines the major authors, texts and literary movements of the British literary tradition by focusing on works from the 11th century through contemporary times. Students will analyze literature and identify prominent authors by style, content and historical context. Students will read, study and discuss British literary movements, the historical reasons they exist, contributing authors and the literature that was produced during these movements. Consideration of the historical and cultural context of the movements, authors and works will be a primary focus. Students will be able to evaluate a text, analyze literature and explore related thematic topics, demonstrate logic and organization in writing and speaking, and write clearly and coherently. Students will learn and demonstrate the elements of revision and how they contribute to a final, cogent draft.

## **Advanced Placement Language and Composition**

Grade: 11

Duration: Year

Prerequisite: 3.5 cumulative grade point average. Class may be limited.

This course satisfies the junior year English requirement.

The AP® English Language and Composition course blends the study of American literature with the use and impact of rhetorical strategies. While studying various American authors, we will also focus on authors' use of rhetorical strategies. Authors write with purpose and use various language tools to accomplish this purpose. They also write to specific audiences. This course will also examine the tools needed to write for a variety of audiences with a variety of purposes. Students will experience the different types of writing including argumentative, expository and analytical by reading models found in American literature and by using the different strategies in various writing assignments. A novel is assigned during the summer before the class begins and students are required to have it completed before the first day of class.

## **AP Literature & Composition 12 (AP)**

Grade: 12

Duration: Semester

Prerequisite: 3.5 cumulative grade point average, faculty recommendation, and English department approval.

(AP Literature & Composition 12 satisfies the senior year English requirement.) The AP® English Literature and Composition is the exit course of the English department. This course strengthens reading, writing and literary analysis skills. It also augments a student's ability to evaluate, judge, analyze and synthesize literature. This is accomplished by reading a variety of literature from different countries, periods and genres. The course will focus on specific authors, themes, genres and analyses. Every author and literary work studied requires various types of critical thinking. This course aligns itself with the requirements found in the AP®English course description. Strategies towards understanding and taking the Advanced Placement test occur throughout the course. A novel is assigned during the summer before the class begins and students are required to have it completed before the first day of class.

## **Equus-Yearbook I & II**

Grades: 10, 11, 12

Duration: Year

Prerequisite Teacher approval- Does not fulfill English credit.

This course will concentrate on the development of writing clarity and effectiveness as well as the application of general journalistic principles. This course will produce the school yearbook. This will involve caption and article writing, editing, page design and layout, and photography.

## **Family and Consumer Science**

Required: Two Units of Fine and/or Practical Arts and/or Foreign Language

### **Culinary Arts 1**

Grades: 9,10,11,12

Duration: Year

Prerequisite: None

A unique opportunity to prepare yourself for a good start to independent living-learn the way to a healthy body and mind through nutrition and also food preparation skills that will last a lifetime. Join a class that provides the culinary techniques, in a group setting, that will lead the way to an exciting, wholesome lifestyle!

### **Culinary Arts 2**

Grades: 10,11,12

Duration: Semester

Prerequisite: Culinary Arts 1

This class is for the student who wishes greater experience in advanced food preparation techniques. Areas of study include: Breads, pastas, eggs, desserts, beverages, cheese, and casseroles, diets for special needs, meal management, career information, a variety of individualized cooking labs.

### **Child Development**

Grades 9,10,11,12

Duration: Semester

Prerequisite: None

This class provides students with understanding of children's growth from conception through pre-school. Through study and laboratory experiences with children, the student will become more effective in interacting and guiding them according to their developmental level. With education in parenting skills comes better understanding of children and the awesome responsibility each parent has to help the child grow to their full potential.

### **Personal Family Dynamics**

Grades: 9,10,11,12

Duration: Semester

Prerequisite: None

Living on your own will be a reality sooner than you think. Prepare for this by studying the principles of management and decision making as it applies to day by day decisions. This class will focus on choosing and preparing for a career and the management of finances, transportation, clothing, and housing choices you will be making as you begin independent living.

## **Commercial Foods**

Grades: 11,12

Duration: Year/or Semester

Prerequisite: Foods I and II and Teacher Approval

This class provides practical experience in the area of commercial and institutional food handling in the kitchen at LHN during the school hours of 2 nd to 6 th. It is an opportunity for students interested in a career in the commercial food industry to gain insight and have practical experience into mass food production. This is an independent study with a workbook included.

## **Foreign Language**

Required: Two units of Fine and/or Practical Arts and/or Foreign Language

Recommended: Two - three units for college-bound students

### **German I**

Grades: 9, 10, 11, 12

Duration: Year

Prerequisite: None

A course intended to develop communication and comprehension skills. Emphasis is placed on acquisition of vocabulary and basic grammatical structures, as well as introduction to the culture of German-speaking lands.

### **German II**

Grades: 10, 11, 12

Duration: Year

Prerequisite: D- or better in German I

A continuation of German I with increased complexity of vocabulary and grammatical structures. Students will be introduced to more in-depth reading and writing, including shorter texts by native German-speaking authors/speakers.

### **German III**

Grades: 11, 12

Duration: Year

Prerequisite: C+ or better in German II.

This course is designed for students who have achieved a higher level of proficiency and who desire to increase that proficiency through study of various literary genres, historical periods, geography, fine arts, social issues, and current events. Emphasis is placed on higher level receptive (reading and listening) and productive (writing and speaking) skills.

### **German IV**

Grade: 12

Duration: Year

Prerequisite: B- or better in German III and teacher permission

A continuation of German III. There is an emphasis on mastering higher levels of writing and speaking, focusing on mastering grammatical concepts and increasing vocabulary. Students will be expected to perform independent study of topics addressed in German III.

## **Spanish I**

Grades: 9, 10, 11, 12

Duration: Year

Prerequisite: None

A course designed to introduce students to basic vocabulary and grammatical structures. Students will begin to develop in the four linguistic skill areas of listening, speaking, reading, and writing. There will also be an introduction to the cultures of various Spanish-speaking countries.

## **Spanish II**

Grades: 10, 11, 12

Duration: Year

Prerequisite: D- or better in Spanish I

A continuation of Spanish I with increased complexity of vocabulary and grammatical structures. Students will continue to develop in the four skill areas of listening, speaking, reading, and writing. The cultures of various Spanish-speaking countries will be explored further, with a special emphasis on holiday celebrations.

## **Spanish III**

Grades 10, 11, 12

Duration: Year

Prerequisite: C+ or better in Spanish II

A course designed to expand students' skills in listening, speaking, reading, and writing while learning advanced grammatical structures. Students continue to build their vocabulary and knowledge of the cultures of various Spanish-speaking countries.

## **Spanish IV**

Grades: 12

Duration: Year

Prerequisite: B- or better in Spanish III and teacher permission.

A course designed to strengthen students' skills in combining the grammatical structures they have learned previously for use in real-life situations. Students will have opportunities to improve their skills of listening, speaking, reading, and writing through a variety of activities and projects. Additional advanced grammatical structures and vocabulary will be learned within the context of the history and cultures of various Spanish-speaking countries.

## **Math Courses**

Required: Three Units

Recommended: Three - Four Units for college prep

### **Elementary Algebra I**

Grade: 9,10

Duration: Year

Prerequisite: None

An algebra course which will provide the student with a very methodical approach to signed numbers, subtraction, reciprocals, solving linear equations, and polynomials.

### **Elementary Algebra II**

Grades: 10,11,12

Duration: Year

Prerequisite: Elementary Algebra I

An algebra course designed to reinforce the studies of Elementary Algebra I and extend the concepts of linear equations, polynomials, and radicals. This two year sequence is the equivalent of Algebra I.

### **Algebra I**

Grades: 9,10,11

Duration: Year

Prerequisite: None

Algebra I will provide strong emphasis on linear solutions, polynomials, radicals, and factoring including an integration of available technology. Interpretation of word problems will be stressed.

### **Geometry**

Grades: 9,10,11,12

Duration: Year

Prerequisite: Algebra I or equivalent

The course begins with an introduction to the basic concepts of Euclidean Geometry. The course progresses by integrating algebra into the study of different shapes and their relationships through deductive and inductive reasoning.

### **Honors Geometry**

Grades: 9,10

Duration: Year

Prerequisite: Algebra I and instructor's approval

A power Geometry class which is intended to challenge students by covering the topics of Geometry in an accelerated fashion and with the use of additional supplemental materials.

## **Advanced Algebra**

Grades: 10,11,12

Duration: Year

Prerequisite: Geometry(for students who have successfully completed a year of Algebra and Geometry.)

Emphasis is given to the structure of Algebra and the nature of proofs. Manipulative skills needed to perform algebraic operations with competence are stressed along with developing the student's power to think logically. This course covers quadratic equations, complex numbers, analytic geometry, exponential and logarithmic functions, and trigonometry. Suggested for college prep.

## **Honors Advanced Algebra**

Grades: 10,11,12

Duration: Year

Prerequisite: Geometry, department approval, and 3.5 GPA in math.

Honors Advanced Algebra is a power course intended to challenge students by the use of an accelerated course.

## **Statistics I & II**

Grades 11, 12

Prerequisite: Advanced Algebra

Duration: Year Long

Statistics is a course that covers the topics of producing data, organizing data, chance, and inference. There will be motivational, hands-on activities that allow students to explore statistical concepts and examples from a variety of fields. The graphing calculator will be utilized. Concurrent enrollment in math classes will be allowed, and students must maintain quality efforts and work in both classes.

## **Trigonometry Analysis Probability Statistics (TAPS)**

Grades: 11,12

Duration: Semester

Prerequisite: Advanced Algebra and instructor's approval

TAPS is a course which covers the topics of symbolic logic, analytical geometry, sequences and series, limits, trigonometry, and polynomial functions (Binomial Theorem). The graphing calculator will be utilized. Suggested for college prep. Concurrent enrollment in math classes will be allowed for special cases only, and students must maintain quality efforts and work in both classes.

## **Pre-Calculus**

Grade: 11,12

Duration: Semester

Prerequisite: TAPS and instructor's approval.

This course is a continuation of TAPS beginning with trigonometry and introduces the topics of limits, derivatives, integration, and exponential functions. This course will provide an introduction to college Calculus for math or science majors. The graphing calculator will be utilized. Suggested for college prep. Concurrent enrollment in math classes will be allowed for special cases only, and students must maintain quality efforts and work in both classes.

## **AP Calculus**

Grades: 11,12

Duration: 2 Semesters

Prerequisite: TAPS, Pre-Calculus, and instructor's approval.

AP Calculus will prepare the student to take the AP Calculus exam. Limits, derivatives and its applications, integration and its applications, exponential and logarithmic functions, and inverse functions will be studied. An AP approved graphing calculator is required. This course is divided into semesters with credit given each semester. The second semester must be taken in the same school year. Concurrent enrollment in math classes will be allowed for special cases only, and students must maintain quality efforts and work in both classes.

## **Computer Programming I**

Grades: 10,11,12

Duration: Semester

Prerequisite: Geometry and keyboarding (or approved standard of competency in touch method.)

This course will develop skills in fundamental programming using the JavaScript language. Modular programming will be emphasized along with organization and problem solving.

## **Computer Programming II**

Grades: 10,11,12

Duration: Semester

Prerequisite: B or better in Computer Programming I

This course will cover advanced JavaScript skills which will include subroutines and arrays. Video game programming using Scratch will also be introduced.

Required: Two Units of fine and/or practical arts and/or Foreign Language

Recommended: One - Two Units for college prep

## **Music Courses**

### **Concert Choir**

Grades: 9,10,11,12

Duration: Year

Prerequisite: Audition

The Concert Choir provides the opportunity for those students with gifted voices to further develop their talents and increase their abilities of musical expression. The choir is offered to increase the student's awareness and comprehension of both sacred and secular forms of music. The choir will lead local congregations in worship. A weekend tour is also scheduled.

### **Concert Band**

Grades: 9,10,11,12

Duration: Year

Prerequisite: Audition

The Concert Band is designed for those students who have attained a high level of proficiency on their instrument. The group will perform more advanced band literature of all historical periods. Students will perform throughout the school year at various events and they may participate in the District and State Solo/Ensemble Festivals.

## **Physical Education Courses**

Required: 1.5 Units plus ½ unit of Health to be taken in four years.

These courses are designed to foster creativity and self-direction and to encourage vigorous activity including an emphasis on safety procedures and cardiovascular endurance. The program will present fundamental skills, which can be employed in a comprehensive intramural, interscholastic, and recreational program of team and individual sports, gymnastics, and rhythms.

### **Physical Education I (Separate Boy's & Girls Class)**

Grade: 9

Duration: Year

Prerequisite: None (Required of Freshmen)

This is a beginning course of basic movement, basic skills, cardiovascular endurance through individual and team sports and dance.

## **Health**

Grade: 10

Duration: Semester

Prerequisite: Sophomore standing (Required of Sophomores)

This course is designed to introduce students to various functions of the body and its maintenance. Knowledge regarding sound health habits and choices help create a mature attitude for responsible adult living.

## **PE II-Boys/Girls**

Grades: 10,11,12

Duration: Semester

Prerequisite: Sophomore, Junior, or Senior standing

This course, typically offered each semester, includes activities which will change on alternating years for each group and will include outdoor and indoor activities of various individual and team sports. Each semester will include cardiovascular activities.

## **Weight Training and Fitness (Men or Women)**

Grades: 11,12

Duration: Semester

Prerequisite: Junior or Senior standing

This course will involve a study of human anatomy, movement, nutrition and fitness. Activities will include laboratory experiences involving weight training, aerobic activities, and cardiovascular exercises in addition to classroom experiences studying the human muscles, joint function, equipment usage, and personal training programs.

## **Science Courses**

Required: Three Units / Starting with the Class of 2017

Recommended: Three plus Units for College Prep

### **Physical Science**

Grade: 9

Duration: Year

Prerequisite: None

A first course in science designed to help the student understand the nature of doing science. Topics covered are measurement and the metric system, the scientific method, motion, energy, waves, light, electricity and magnetism, and radioactivity. Everyday applications and doing experiments will be emphasized.

### **Biology**

Grades: 9, 10

Duration: Year

Prerequisite: None

This course describes the structure of living organisms and the functions of their parts. During the first semester, topics revolve around the building blocks of living material such as the cell, its organelles, and how these organelles work. The second semester covers the anatomy and histology of the whole organism from the simplest single celled organism to humans.

### **Chemistry**

Grades: 10, 11, 12

Duration: Year

Prerequisite: Biology and Algebra I

This is a course that investigates substances, their properties, and the nature of the processes by which they interact. The emphasis is to show how observations relate to the interpretations and theories of science. Students will learn how chemistry and chemical principles influence their everyday lives and interpret their world from a molecular point of view.

### **Honors Chemistry**

Grades: 10, 11, 12

Duration: Year

Prerequisite: B or better in biology and Algebra I and instructor's approval.

Honors chemistry is a course intended to challenge those students with a strong math and science interest. It is an accelerated program with a greater emphasis on using mathematics and understanding the theories of chemistry. It is strongly recommended for those students considering a math/science major in college.

### **Chemistry Semester 3**

Grades: 11, 12

Duration Semester

(Advanced Topics in First Year Chemistry)

Prerequisite: Chemistry or Honors chemistry

This course continues the study of chemistry topics from the first year of chemistry. It will allow students a more in-depth study of chemistry after the first year of chemistry without the rigor of AP Chemistry. Topics covered will include - Organic Chemistry, Review of Stoichiometry, Thermo chemistry, Chemical Kinetics & Equilibrium, Acids & Bases, Electrochemistry, and Nuclear Chemistry.

### **AP Biology**

Grades: 11, 12

Duration: Year

Prerequisite: Biology and Chemistry and instructor's approval.

AP Biology is an introductory college-level biology course. Students cultivate their understanding of biology through inquiry-based investigations as they explore the following topics: cellular processes, energy and communication, genetics, information transfer, ecology, and interactions. A special emphasis is placed on preparation for the AP exam.

### **Honors Anatomy and Physiology**

Grades: 11, 12

Prerequisite: Biology, Chemistry, and Instructor's Approval

A course designed for the upper level student in the study of the human body. Areas of study will be: introduction to medical terminology, extensive study of the systems of the human body, and extensive lab study of a representative mammal. The textbook is used as a first year college anatomy and physiology text. The course is suggested for college prep.

### **Physics**

Grades: 10, 11, 12

Duration: Year

Prerequisite: Geometry

A course designed to acquaint the student with the laws of nature in areas of motion, forces, energy, waves, electricity and magnetism. An emphasis will be placed on the qualitative approach in the development of these concepts. Suggested for college prep.

## **AP Physics**

Grades: 11, 12

Duration: Year

Prerequisite: Adv. Algebra and instructor's approval

A course designed to acquaint the student with the practical applications in the areas in the areas of motion, forces, momentum and energy, waves, light and electricity and magnetism. An emphasis is placed on solving problems. Suggested for college prep.

## **Earth Science**

Grades: 10, 11, 12

Duration: Semester

Prerequisite: Biology

A course designed to acquaint the student with the natural forces that shape planet earth and the solar system. Areas of study include astronomy (Solar System and Earth's motion), meteorology (weather, climate), and geology (land formation and earth structure).

## **Environmental Science**

Grades: 10, 11, 12

Duration: Semester

Prerequisite: Biology

A course designed for the student interested in the basic ecological concepts and the many impacts upon the environment. Areas of study include: ecological principles, water cycle and groundwater, air and water pollution and population studies.

## **Forensic Science**

Grades 10,11,12

Duration-Can take Year, Full Year

Prerequisite: Biology

Students examine the sciences used in crime scene investigations. Students explore topics such as toxicology, serology, impressions, genetics, fingerprinting and DNA. The students learn to apply concepts learned in biology, chemistry, and physics to the area of crime scene investigation. As a result, the course sets a priority on lab work, inquiry, and problem solving activities. Students examine physical evidence through hand-on experiences. Students scrutinize components of crime scenes through simulation and laboratory investigations. Students enhance their understanding of forensic science through interactions with professional crime scene investigators.

## **Honors Advanced Chemistry**

Grades: 11, 12

Duration: Year

Prerequisite: Honors chemistry or Chemistry with instructor's approval

This is a second year chemistry course that studies stoichiometry, thermochemistry, bonding, chemical kinetics, equilibrium, acids and bases, electrochemistry, and organic chemistry in greater detail. An emphasis is placed on lab procedures and experimentation especially using computers to obtain and analyze data. The Advanced Placement Exam may be taken at the end of the program for possible college credit. This course is intended for those students with a strong science interest.

Required: Three Units including U.S. History, Twentieth Century Global History, and Government

Recommended: Three - Four units for college prep

## **Social Studies Courses**

### **World History**

Grades: 9,10

Duration: Year

Prerequisite: None

The first semester offers a detailed study of ancient and medieval history. The second semester analyzes modern history from the Renaissance through the end of World War I. Although the emphasis is on Western civilization, Asian, African and American studies are included. Suggested for college prep. This course is a requirement for Honors US History and for Seminar in Current Events.

### **United States History**

Grade: 11

Duration: Year

Prerequisite: None (Required of Juniors)

This course leads the student into a study of American history through the end of World War I using chronological treatment of the various strands of history as they actually unfolded in the world of people and events. Emphasis is placed on developing a Christian perspective as man relates to past and present.

### **AP United States History**

Grade: 11

Duration: Year

Prerequisite: 3.25 GPA, World History, and Instructor's Approval

In AP U.S. History, students investigate significant events, individuals, developments, and processes in nine historical periods from approximately 1491 to the present. Students develop and use the same skills and methods employed by historians: analyzing primary and secondary sources; developing historical arguments; making historical connections; and utilizing reasoning about comparison, causation, and continuity and change. The course also provided eight themes that students explore throughout the course in order to make connections among historical developments in different times and places: American and national identity; work, exchange, and technology; geography and the environment; migration and settlement; politics and power; America in the world; American and regional culture; and social structures. A special emphasis is placed on preparation for the AP exam.

### **Twentieth Century Global History**

Grade: 12 (Required of Seniors)

Duration: Semester

Prerequisite: United States History

This course offers a detailed study of twentieth century events as they relate to our present existence. Major topics include World War II, the Cold War, civil rights in the US, the Vietnam War, Watergate and recent changes in Europe.

## **Government**

Grade: 12 (Required of Seniors)

Duration: Semester

Prerequisite: None

This course leads the student in the study of the principles and practices of democracy in America. Emphasis is placed on the workings of the three branches of the national government. Other topics include state and local government, campaigns and elections, and the Bill of Rights.

## **Economics**

Grades: 11,12 Offered every other year Duration: Semester

Prerequisite: None

This course acquaints the student with the functions of the American economy. Market forces, contemporary issues and government economic policy are stressed. Suggested for college prep.

## **Introduction to Law**

Grades: 10,11,12

Duration: Semester

Prerequisite: None

This course introduces students to the principles and concepts of the American legal system. Major emphasis is placed on criminal law considerations and proceedings. Other topics include torts and consumer law, family law, and individual rights and liberties.

## **Psychology**

Grades: 11,12

Duration: Semester

Prerequisite: None

This course introduces students to how the mind works and how personality develops. Students study several psychologists and their theories and therapies. The class also offers an overview of abnormal behavior, psychological testing, diagnosis and human relations.

## **Current Events**

Grades: 10,11,12

Duration: Semester

Offered fall semester of even numbered years

Prerequisite: World History and instructor's approval

This course increases the students awareness of international, national, state and local events to determine how these events both relate to past historical events and especially how they affect an individuals daily life. Events studied include campaigns and elections, news accounts from different sources are used and analyzed.

Required: A ½ unit of credit for each semester of enrollment.

## **Theology Courses**

### **Old Testament**

Grade: 9

Duration: Year

Prerequisite: None

This course covers the history of the Old Testament. Daily devotions also include readings from Psalms, Isaiah, and other books of the Old Testament written for worship. The only textbook is the Bible. However, extensive use is made of biblical films. These films include: Abraham, Jacob, Joseph, Moses, Samson, Ruth, David, Solomon, Jeremiah, and Esther.

### **New Testament**

Grade: 10

Duration: Year

Prerequisite: None

During the first semester of this class, students will study the intertestamental period, the relationship between the Old and New Covenant, and the fulfillment of Old Testament prophecy in the New Testament. The majority of this semester's study will focus on the study of the four Gospels using the harmony of the Gospels approach. The focus during the second semester will be a study of the book of Acts and the Pauline epistles.

### **Comparative Religions**

Grade: 11

Duration: Year

Prerequisite: None

Lutheran doctrine will be studied with Comparative religions, world religions, and an examination of the major cults.

### **Applied Christianity**

Grade: 12

Duration: Year

Prerequisite: None

This course is designed to apply the Christian faith to daily living. The following topics will serve as the basis for this course: Christian ethics, spiritual gifts, Christian family, apologetics, evangelism, and the devotional life of a Christian. Portions of Scripture will be used as the basis for the fundamentals taught in each of the above.

### **Christian Leadership**

Grade: 10-12

Duration: Semester

Prerequisite: None

The Christian Leadership course evaluates both secular and Christian leadership principles and characteristics. Portions of Scripture and John Maxwell's, The 21 Irrefutable Laws of Leadership will serve as the basis for Christian Leadership, with guest speakers invited weekly. Participants will apply leadership principles to their daily vocations with the intent of leading themselves and others appropriately.

### **Seminar**

Grade: 9,10,11,12

Duration: Year

Prerequisite: See Below

In Seminar, the instructor will work with the whole class, and individual students, to improve their academic success by monitoring their progress and providing tutoring on an as needed basis. Students will learn good study habits, work on homework assignments, and study for upcoming tests and quizzes. This course may provide the opportunity for students to work on content and curriculum through virtual learning. College and career activities will be incorporated to provide students with an opportunity to explore personal strengths, passions, and interests.

### **Pankow Learning Center**

The Frederick V. Pankow Center provides Career and Technical Education programs that are designed to provide a pathway to their career goal. Pankow Center provides programs that prepare students for jobs that are in demand and that offer long-range career opportunities. L'Anse Creuse students may choose to participate in the more specialized technical preparation curricula at the Pankow Center. Many of the programs begin as early as the tenth grade and continue toward a two or four-year degree at a technical, community college or university. Students enrolled in career and technical education will be prepared to enter fields of work, which lead to more economically rewarding positions.

Courses for Pankow include Auto Tech, Auto Collision, Criminal Justice, Culinary Arts, Early Childhood Education, Graphic Arts, Health Occupations, Medical Assisting, Horticulture, Microsoft Network Administration, PC Servicing and Networking, TV and Broadcast Media.

Not all courses are offered each year and additional courses are added some years.

### **Dual Credit Courses**

Lutheran High School North students can earn college credit while still in high school. The State of Michigan is billed for the authorized amount of tuition and fees. Billing is limited to a maximum dollar amount; students must pay any costs above the limit. Approval of courses and billing authorization is required from the high school principal and/or representative. Please talk to the Guidance office for further information.

<https://www.macomb.edu/future-students/hs-counselors/early-admission.html>

<https://online.cuw.edu/online-degrees/high-school-dual-credit-courses/>

