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ACADEMIC CATALOG

Lutheran High Northeast 2011-2012

Revised & Updated

7/25/2011

This handbook describes the curriculum & course of study at Lutheran High Northeast. Graduation requirements for each subject area are included, and a list of requirements can be found at the end of this catalog. A brief description of each course is provided. Please note that descriptions are meant to be very general. Each teacher has a course outline for each course & will provide a copy upon request. Please note that graduation requirements at Lutheran High Northeast meet or exceed requirements mandated by the Nebraska State Dept. of Education.

Academic Catalog

Lutheran High Northeast's curriculum & course of study is based upon the graduation requirements established by the Board of Directors and meets the requirements of the Nebraska Department of Education under Rule 14 for Approved Schools. Factors such as enrollment, staffing, finances, and facilities will often influence the course of study. Therefore, not all classes may be offered every year. **NOTE:** Weighted courses are marked with a "W".

IMPORTANT REVISIONS

- ✓ **Additional requirements added to Spanish 2, 3, 4.**
- ✓ **Additional requirements added to Advanced Math, Calculus.**
- ✓ **Additional requirements added to Chemistry, Physics.**

ENGLISH/LANGUAGE ARTS

Graduation requirement = 40 credits, including English 9, 10, 11, 12

English 9

- Required Grade 9 1-year 10 credits

An integrated approach involving literature, grammar, composition, speech, and other language arts.

English 10

- Required Grade 10 1-year 10 credits

An integrated approach involving literature, grammar, composition, speech, and other language arts. Students develop media and research skills and participate in a writing-based, language arts approach-workshop.

English 11

- Required Grade 11 1-year 10 credits

An integrated classroom approach with an emphasis on American literature. Through the study of the works of well-known authors, expository and creative writing will be included, and the development of research skills will be encouraged. Composition, grammar, speech, and other language arts will be reviewed and utilized through literary work.

English 12

- Required Grade 12 1-year 10 credits

An integrated approach involving literature, grammar, composition, speech, and other language arts (emphasis on British and/or world literature).

Journalism

- Elective Grades 10-12 Semester 5 credits

Involves both writing and production techniques for newspaper and yearbook production. Enrollment in this course requires work for all student publications. Extensive writing and researching are required. Students are also expected to help photograph school activities and events. **Note:** students must be able to function well as part of a team. (May be repeated with administrative approval.) Requires: teacher consent.

Writers Workshop***This course is not being offered in 11-12.***

- Elective Grades 11-12 Semester 5 credits

This course uses a workshop method to teach both college & creative writing. College writing focuses on writing essays, research papers, and journal critiques and reviews. Creative writing focuses on characteristics of fiction and creative non-fiction by reading examples of these genres, then applying & using those characteristics in the student's own writing. The writing process is taught & applied extensively in this course. (May be repeated once with administrative approval.) Requires: teacher consent.

FOREIGN LANGUAGE - REVISIONS

Note: Lutheran High Northeast does not require foreign language for graduation. However, we strongly encourage students to take at least two years of the same foreign language. This will meet most college entrance requirements. Foreign language credits count as elective credits.

Spanish 1

- Elective Grades 9-12 1-year 10 credits

Involves basic grammar and vocabulary of Spanish. Students will begin to speak and understand spoken and written Spanish.

Spanish 2

- Elective Grades 10-12 1-year 10 credits

Second year course. Requires: successful completion of Spanish 1, ***preferably with a grade of C+ or better***, & teacher consent.

Spanish 3 W

- Elective Grades 11-12 1-year 10 credits

Third year course. Requires: successful completion of Spanish 2, ***preferably with a grade of C+ or better***, & teacher consent.

Spanish 4 W

- Elective Grade 12 1-year 10 credits

Fourth year course. Subject to staffing & enrollment restrictions. **Note:** This class may not be offered every year, based on enrollment & other factors. Requires: successful completion of Spanish 3, ***preferably with a grade of C+ or better***, & teacher consent.

FINE ARTS

Graduation requirement = 10 credits in any combination of art and music.

Art coursesIntroduction to Art

- Elective Grades 9-12 Semester 5 credits

This course involves basic elements of design, including the study of line, shape, form, texture. Examples of all these elements will be done using paper, ink, and paint. Beginning lessons in drawing will be introduced, including pencil, pen and ink, and charcoal. Different styles will include contour line, shading, pointalism, and crosshatch.

Art Techniques

- Elective Grades 9-12 Semester 5 credits

Emphasizes the use of the tools and materials used for the different areas of art that are covered. Examples include pencil, charcoal, and ink for drawing; cutting tools for printmaking; stretching their own canvases for painting. The different qualities of water color, acrylic, and oil points will be explored. The use of clay from powdered form to ready-to-use will be taught. This is a hands-on, how-to class. Requires: teacher consent & preferably successful completion of Intro to Art.

Art Media

- Elective Grades 10-12 Semester 5 credits

Students take their know-how from Art Techniques and use it to creatively explore all of the different media included in the art curriculum. Creativity and exploration are emphasized, since students should already have the skills needed to utilize art materials. Requires: teacher consent & preferably successful completion of Intro to Art & Art Techniques.

Art Portfolio

- Elective Grades 11- 12 Semester 5 credits

This class will allow students to prepare a portfolio for judgment in shows and evaluation for entry into college art programs. Students must complete a portfolio of work to be exhibited at LHNE by the end of the senior year. Lessons will be provided in making a presentation of this work. (May be repeated with administrative approval.) Requires: teacher consent & preferably successful completion of Introduction to Art, Art Media, & Art Techniques.

Music courses

Band

- Elective Grades 9-12 Semester 5 credits

Involves instrumental theory and technique. Participation in band will require participation in multiple out-of-school performances and events. Generally considered a year-long class but may be taken for one semester with teacher consent & administrative approval. Students may be required to participate in individual and/or group lessons during the school day. (May be repeated with administrative approval.) Requires: teacher consent.

Chorus

- Elective Grades 9-12 Semester 5 credits

Involves vocal theory and technique. Participation in chorus will require participation in multiple out-of-school performances and events. Generally considered a year-long class but may be taken for one semester with teacher consent & administrative approval. Students may be required to participate in individual and/or group lessons during the school day. (May be repeated with administrative approval.) Requires: teacher consent.

HEALTH/PHYSICAL EDUCATION

Graduation requirement = 10 credits in any combination of the following courses.

Health

- Elective Grades 10-12 Semester 5 credits

This course provides each student with a curriculum that emphasizes wellness as a way of life. This concept of wellness is dependent upon healthy attitudes, behaviors, choices, and current health knowledge.

Strength & Fitness

- Elective Grades 9-12 Semester 5 credits

This course is designed to help students understand why strength & fitness are important in developing a healthy & active lifestyle. Emphasis will be put on applying the fitness components: cardiovascular endurance, flexibility, muscular strength, muscular endurance, and body composition. May require some participation in out-of-school activities. (May be repeated with administrative approval.) Requires: teacher consent for upperclassmen.

MATHEMATICS - REVISIONS

Graduation requirement = 30 credits, including Algebra & Geometry.

NOTE: Four years of math are strongly encouraged for college preparation.

Pre-algebra

- Required * Grades 9-10 1-year 10 credits

Includes development and practice of skills needed to succeed in algebra, including fractions, decimals, and basic mathematical operations, area & volume of space figures. * **Note:** Required for students who are not ready for Algebra, based on academic achievement, test scores, and/or teacher recommendation.

Algebra 1

- Required * Grades 9-11 1-year 10 credits

This course is the first year of basic algebra and the launching pad for the series of high school math courses. Topics include use of variables and positive & negative numbers; solving and graphing linear equations and inequalities; use of radicals, monomials, and polynomials. Emphasis is given to real world application of algebraic equations and formulas. A brief introduction to geometry and trigonometry is provided. * **Note:** Students who have successfully completed Algebra in Grade 8 do not have to repeat this course, although no high school credits are granted for course work completed prior to Grade 9. Requires: teacher recommendation.

Geometry

- Required Grades 9-12 1-year 10 credits

Taught inductively, geometry is an introduction to spatial relationships in our working world. Students will investigate and discover the rules of geometry individually and in groups with teacher guidance. An emphasis is placed on organizational skills and self-discipline throughout the course. Requires: successful completion of Algebra 1.

Algebra 2

- Required * Grades 10-12 1-year 10 credits

This rigorous course expands on topics introduced in Algebra 1, and introduces matrices, quadratic and logarithmic functions, conic sections, sequences and series, and trigonometry. Topics in statistics and application of algebraic techniques in technology and the “real world” are integrated frequently. The TI-83, 84 or 85 graphing calculator is recommended for this course. * Note: If a student needs this course to complete our graduation requirement and is capable of completing it successfully, this course is required over Business Math. Requires: successful completion of Algebra 1, Geometry, and teacher recommendation.

Business Mathematics ***This course is not being offered in 2011-12.***

- Elective Grades 11-12 1-year 10 credits

Covers basic math skills for students who are not yet ready for upper level courses. Also specifically addresses mathematical areas with a practical application for business and personal finance. Administrative and teacher consent are required. This course should not be viewed as a substitute for Algebra 2 or Advanced Math. If a student is deemed capable of handling these upper-level math courses, he/she will not be allowed to take Business Math. Requires: teacher recommendation & administrative approval.

Advanced Math **W**

- Elective Grades 11-12 1-year 10 credits

Advanced Math includes the topics of Algebra III, trigonometry, and pre-calculus. This course is strongly recommended for any college-bound student, in preparation for college algebra. Because of its frequent use in instruction, a TI-83 graphing calculator is strongly recommended. This class is considered a college-prep type course. Requires: successful completion of Alg. 1, Geometry, Algebra 2, ***preferably with a grade of B or better***, and teacher recommendation.

Calculus **W**

- Elective Grade 12 1-year 10 credits

Calculus is taught using graphical, numerical and algebraic modes of learning. The concepts of the derivative and integral will be explored. Preparation for the AP exam will be available for motivated students. Because of its frequent use in instruction, a TI-83 graphing calculator is strongly recommended. This class is considered a college-prep type course. Requires: successful completion of Algebra 1, Geometry, Algebra 2, Advanced Math, ***preferably with a grade of B or better***, and teacher recommendation.

PRACTICAL ARTS - REVISIONS

Graduation requirement = 10 credits, including Introduction to Computers

Computer coursesComputer Science

- Required Grades 9-12 Semester 5 credits

A basic survey course that covers many aspects of computers & technology. Topics include hardware, desktop publishing, spreadsheets, programming, photo editing, PowerPoint, and the Internet.

Computer Applications *This course is not being offered in 2011-12.*

- Elective Grades 10-12 Semester 5 credits

This course explores a wide variety of emerging online technologies & concepts that are both important and practical for businesses. Topics include how emerging tech tools—such as Facebook, Twitter, flip video, video conferencing, etc—can help students stay up to date in the new information landscape that businesses are entering. Projects will combine the use of emerging online technology with the needs of business & organizations to improve communications & productivity. This course will also focus on Microsoft PowerPoint, Internet searching tips, Digital Photo Story, & Movie Maker. This course is formally known as “Information Technology Application 3.” Requires: successful completion of **Computer Science** & teacher recommendation.

Introduction to Engineering & Robotics

- Elective Grades 10-12 Semester 5 credits

This course explores the tenants of electrical & mechanical engineering through robotic design & implementation. Students will explore concepts using Lego NXT robotic kits. Much of the class time will be spent working in small teams to complete projects. (Preference given to seniors, then juniors, then sophomores.) **Note:** This course is also known as “Robotics.” Requires: successful completion of Intro to Computers, Algebra 1 & teacher consent.

Business coursesAccounting *This course is not being offered in 2011-12.*

- Elective Grades 10-12 1-year 10 credits

This course covers a broad range of accounting principles. It includes instruction in special journals, posting, trial balancing, work sheets, financial statements, adjustments, and closing ledgers. Students are introduced to computerized accounting. This course is highly recommended for students who are training for many of the business occupations, as well as students planning to become accounting or business majors at the college level. Requires: teacher consent.

Introduction to Business

- Elective Grades 10-12 Semester 5 credits

Intro to Business is an introductory level business course designed to acquaint students with an understanding of how a market economy operates. The primary focus will be on basic business concepts, including economics, business & government in our global economy, comparative financial institutions & banking services, marketing, management, and finance. Proper application of business mathematics and writing will be emphasized throughout the course.

Personal & Business Finance

- Elective Grades 11-12 Semester 5 credits

Students will experience real world examples and practical advice regarding money management, banking (savings & checking), budgeting, consumer credit decisions, consumer purchasing, and real estate finances. **Note:** This course can be taken for articulated credit. **Also note:** This course may not be offered every year, based on enrollment and staffing considerations. This course is also known as “Personal Finance.” Requires: preferably successful completion of Intro to Business and/or teacher consent.

Business & Personal Law

- Elective Grades 11-12 Semester 5 credits

Students will examine the foundations of the American legal system and the rights & responsibilities of citizens; and gain practical knowledge & life skills by exploring economic & social concepts related to laws governing businesses & individuals. Areas of focus will include contracts, consumer protection, criminal law, tort law, international law, family/domestic law, employment law, & careers in the legal profession. Students will demonstrate an understanding of the legal environment of a business; do mock trials during the semester, and visit the Madison County Jail & Madison County Courthouse to see a trial during the semester. **Note:** This course will typically be offered every other year, based on enrollment and staffing considerations. This course is also known as “Business Law.” Requires: preferably successful completion of Intro to Business and/or teacher consent.

Marketing

- Elective Grades 10-12 Semester 5 credits

Students will learn more about advertising—why some ads stand out and others don’t—and use their creativity to produce effective ads. Topics include basic advertising, how it affects customers, consumers’ behavior, and the media. Students will demonstrate competency describing the relationship between profit & customer service, developing & presenting a promotional plan, applying marketing knowledge to a variety of business situations, and by identifying customer buying behaviors. ***Students will use Photoshop & Audacity to create projects.*** **Note:** This course will typically be offered every other year, based on enrollment and staffing considerations. Requires: preferably successful completion of Intro to Business and/or teacher consent.

Other Practical ArtsFamily & Nutrition Science

- Elective Grades 9-12 Semester 5 credits

This course involves a contemporary study of life skills to prepare students for learning about themselves, their peers and family members, and the ability to better manage living in our world. Basic skills of food and nutrition, clothing and textiles, money management and consumer awareness will be included, along with text-based work and hands-on practice. **Note:** This course is also known as “Home Economics.” Requires: teacher consent for upperclassmen.

Microsoft Office Suite

- Elective Grades 9-12 Semester 5 credits

Students apply problem-solving skills to real-life situations through word processing, spreadsheets, databases, multimedia presentations, and integrated software activities. Students will work individually and in groups to explore computer concepts, operating systems, networks, telecommunications, and emerging technologies. The cooperative education method is available for this course. (Students combine classroom instruction and supervised on-the-job training in an approved position with continuing supervision throughout the school year.) **Note:** This course may not be offered every year, based on enrollment and staffing considerations. This course is formally known as “Information Technology Application 1.”

Teacher/Office Assistant

Involves assistance to office staff and/or faculty. Typical service may include grading papers, duplicating papers, filing, bulletin boards, etc. Requires consent by appropriate teacher and administrative approval. Teachers may give extra credit for this service at their discretion and with administrative approval. No grades or academic credits are given for this service.

Drivers Education ***This course is currently not being offered by LHNE.***

This course will be offered, if possible, subject to availability of an adequate vehicle, qualified instructor and sufficient enrollment. No grades or academic credits will be given. We do NOT guarantee that this course will meet DMV requirements as a certified motor vehicle safety course. If one is available, LHNE contracts with an instructor NOT on faculty & staff.

SCIENCE REVISIONS

Graduation requirement = 20 credits, including Earth Science & Biology.

Earth Science

- Required Grade 9 1-year 10 credits

This course includes the study of the earth, the processes and forces that change it, materials from which it is made, and its place in the universe. This course focuses on geology but also includes meteorology, oceanography, and astronomy.

Biology

- Required Grade 10 1-year 10 credits

Biology is the study of life. This course emphasizes cells, genetics, and a critical analysis of evolution; also touches on microbiology, botany, and zoology.

Chemistry **W**

- Elective Grades 11-12 1-year 10 credits

This course is designed to enable students to gain a clearer understanding of the world in which we live at the atomic level. Topics include matter and energy, atomic structure, bonding, the periodic table, mathematics of chemistry, kinetics and equilibrium, acids and bases. Organic chemistry, applications of chemical principles, & nuclear chemistry are covered, if time permits. This class is considered a college-prep type course. Requires: teacher recommendation & Algebra 2 either **successfully** completed or in progress.

Physics **W**

- Elective Grades 11-12 1-year 10 credits

This course covers the interactions between matter and the changes in energy that accompany these interactions. Topics include mechanics, thermodynamics, vibrations and wave phenomena, optics, & electromagnetism. Relativity & quantum mechanics are covered, if time permits. This class is considered a college-prep type course. Requires: teacher recommendation & Algebra 2 either **successfully** completed or in progress.

Anatomy & Physiology **W**

- Elective Grades 11-12 1-year 10 credits

This course provides a balanced introduction to human anatomy and physiology. Topics include organization of the body; systems that cover, support, or move the body; systems that control by communication; systems that transport and protect; metabolic processing systems; and the

cycle of life. This class is considered a college-prep type course. **Note:** This course is also known as "Anatomy." Requires: successful completion of Biology & teacher consent.

SOCIAL SCIENCE *REVISIONS*

Graduation requirement = 40 credits, including World Geography, World History, U.S. History, & American Government.

World Geography

- Required Grade 9 1-year 10 credits

This course explores geography themes and world issues covering the geographical and geopolitical regions of the world.

World History

- Required Grade 10 1-year 10 credits

A study of world history with emphasis on the political, social, and economic effects on societies.

U.S. History

- Required Grade 11 1-year 10 credits

Concentrates on events and issues of United States history, particularly from the Revolutionary War period until the present.

Honors U.S. History **W** *This course is not being offered in 11-12.*

- Alternative Grade 11 1-year 10 credits

Available to students within the context of the U.S. History course. Students must possess solid reading & writing skills. A willingness to devote extra time to homework & independent study is also necessary. After entering into a contract with the teacher, students must complete the typical course work but also devote their efforts to developing additional critical & evaluative thinking skills, essay writing, and interpreting original documents. Students will be required to regularly participate in class discussions & complete additional projects & presentations. **Note:** If a student fails to meet the requirements of this course, credit will instead be given for the U.S. History course described above. Requires: teacher consent.

American Government

- Required Grade 12 1-year 10 credits

Includes instruction in civics, government, the political system of the United States, the United States Constitution, and the examination of current events that affect us at the local, state, national, & international levels.

THEOLOGY - *REVISIONS*

Graduation requirement = 40 credits or 10 credits per year for students who transfer after Grade 9.

Note: All theology courses are scripture-based, taught from a Lutheran understanding of the Bible. Students who transfer in to LHNE after Grade 9 will be placed in appropriate theology courses at the discretion of the Principal.

Old Testament

- Required Grade 9 1-year 10 credits

A historical & theological survey of the Old Testament. In addition to helping students understand the Old Testament, this course will also help students to understand the New Testament better.

New Testament

- Required Grade 10 1-year 10 credits

A historical & theological survey of the New Testament. ~~with an emphasis on summarizing & communicating its themes.~~ ***This class will draw upon, and bring to completion, Old Testament theology in order to gain a fuller understanding & appreciation of the person & work of Jesus Christ.***

Christian Doctrine

- Required Grade 11 1-year 10 credits

Covers the historical roots of doctrine, including units on church history & LCMS history. The fundamental doctrines of the LCMS will be examined in depth.

Word vs. World

- Required Grade 12 1-year 10 credits

This course is meant to prepare disciples of Christ for ***life in*** a world that is hostile to Him. Various modern issues will be examined, including bioethical issues, world religions, creationism vs. evolution, and the influence of secular humanism. The year culminates with a study on vocation, including the most important vocations of marriage & parenting. **Note:** This course is also known as "Theology 12."

GRADUATION REQUIREMENTS REVISIONS

- Elective requirement: 60 additional credits after all other requirements met.
- English: 40 credits. Required: English 9, 10, 11, 12; Electives: Journalism, Writers Workshop.
- Foreign Language: No requirements. Electives: Spanish 1, 2, 3, **4**.
- Fine Arts: 10 credits, any combination. Electives: Art courses, Band, Chorus.
- Health/Physical Education: 10 credits, any combination. Health, Strength & Fitness.
- Math: 30 credits, must include Algebra & Geometry. Pre-algebra, Algebra 1, Geometry, Algebra 2, Advanced Math, Calculus, Business Math. **Note:** after 30 credits are completed, remaining classes are considered electives.
- Practical Arts: 10 credits. Required: Computer Science. Electives: Computer Applications, Introduction to Engineering & Robotics, Home Economics, Microsoft Office, Accounting, Introduction to Business, Personal & Business Finance, Marketing, Business Law.
- Science: 10 credits. Required: Earth Science, Biology. Electives: Chemistry, Physics, Anatomy.
- Social Science: 40 credits. Required: Geography, World History, U.S. History or Honors U.S. History, American Government.
- Theology: 40 credits. Old Testament, New Testament, Christian Doctrine, Word vs. World.