

# Lutheran High Northeast Course Catalogue

## Agricultural

**Agricultural classes are considered “Applied Science” because you take what you have learned in math, English, science, social studies, etc....and you APPLY it to real life issues within agriculture.**

### **Intro to Agriculture**

**Open to 9-10**

**1 Semester**

**5 Credits**

**Prerequisite: None**

Students will discuss topics such as water & soil quality and conservation, forages & grains, gardening plants, livestock judging, record keeping on the farm, farming equipment, and parliamentary procedure, and will spend quite a bit of time learning about jobs within agriculture. Hands-on opportunities include worm composting, raising vegetables, aquaculture, and touring agriculturally related businesses as time allows. *Students must take this class before taking any other Agricultural Class.*

### **Animal Science**

**Open to 9-12**

**1 Semester**

**5 Credits**

**Prerequisite: Intro to Ag**

Students will learn about the history of livestock domestication, the management and welfare of animals, various breeds, the impact of livestock on the environment, record keeping within animal production, and compare similarities & differences between animal species. *Students must take this class in order to take Small Animal, Large Animal Management, and Veterinary Science.*

### **Plant Science**

**Open to 9-12**

**1 Semester**

**5 Credits**

**Prerequisite: Intro to Ag**

Students will devise and implement experiments testing what affects plant growth. They will also learn about plant pests/diseases and will determine where plants/crops can or should be grown. They will discuss plant genetic engineering and will compare agricultural practices in the United States to other countries. Students will also be practicing record keeping. Students may visit area businesses as they relate to plant science. *Students must take this class in order to take Agronomy and/or Floriculture.*

### **Ag Leadership & Career Readiness**

**Open to 11-12**

**1 Semester**

**5 Credits**

**Prerequisite: Intro to Ag**

Students will research what a true leader is and what qualities are commonly found in a leader. They will learn how to work in a productive team, how to be team players, and how to be more efficient in the workplace. Students will explore their future career plans, improve communication skills (phone, email, verbal, etc.), and will learn how to create & build a resume (including record-keeping). They may also have an opportunity to sit in a mock interview. Guest speakers may visit as time allows.

**Floriculture** **Open to 10-12** **1 Semester**  
**5 Credits** **Prerequisites: Intro to Ag AND Plant Science**

This course will provide students with the necessary knowledge to apply design principles in the floral industry. Topics include the history of the floral industry, processing techniques and tools, trends, and flower and foliage identification important in the design of quality floral arrangements.

**Agronomy** **Open to 10-12** **1 Semester**  
**5 Credits** **Prerequisites: Intro to Ag AND Plant Science**

This course investigates advanced crop management production and management topics. Students develop an understanding of nutrition and fertilization methods, resource management, pest management, technology use, marketing, and sustainable systems.

**Veterinary Science** **Open to 10-12** **1 semester**  
**5 Credits** **Prerequisites: Intro to Ag AND Animal Science**

This course introduces students to the basics of veterinary care. Topics covered include general animal care and welfare, animal health, laws and ethics relating to animal care, and workplace safety involving large, small, and exotic animals.

**Small Animal Management** **Open to 10-12** **1 Semester**  
**5 Credits** **Prerequisites: Intro to Ag AND Animal Science**

This course focuses on the management and care of small animals. Topics include animal welfare and handling, nutrition, reproduction, facility management, and small animal health care.

**Large Animal Management** **Open to 10-12** **1 Semester**  
**5 Credits** **Prerequisites: Intro to Ag AND Animal Science**

This course includes advanced scientific principles and communication skills that build on the knowledge and skills learned in Animal Science. Topics include production methods, animal welfare, nutrition, biosecurity, and housing.

**Agricultural Business** **Open to 11-12** **1 Semester**  
**5 Credits** **Prerequisites: Intro to Ag AND Plant Science OR Animal Science**

This course covers skills necessary for entry into employment or furthering education in an agricultural business. The course includes the study of business planning, creating financial documents, analyzing financial information, developing business plans, and using sales and marketing principles.

**Welding Fundamentals** **Open to 10-12** **Preference to FFA members** **1 Semester**  
**5 Credits** **Prerequisite: Intro to Ag**

This course provides an in-depth study of welding principles and applications in a classroom/agricultural laboratory/shop setting to help students understand and prepare for the opportunities in current welding and agricultural-associated careers. Through hands-on applications and comprehensive technical content, students will develop foundational knowledge and skills for welding processes.

**Metals and Fabrication**      **Open to 11-12**      **Preference to FFA members**      **1 Semester**  
**5 credits**      **Prerequisites: Intro to Ag & Welding Fundamentals**

This course provides an in-depth study of metals and fabrication with metal products. It also provides the opportunity to develop, design, and construct metal fabrication projects.

**PSTS Fundamentals**      **Open to 10-12**      **Preferences to FFA members**      **1 Semester**  
**5 credits**      **Prerequisites – Intro to Ag**

This course is designed to provide students with introductory-level experiences in selected major areas of agricultural mechanics technology which MAY include woodworking, agricultural structures, electrical wiring, and power equipment operation and maintenance. Learning activities include information, skill development, and problem-solving.

**Advanced PSTS**      **Open to 11-12**      **Preference to FFA members**      **1 Semester**  
**5 credits**      **Prerequisites: Intro to Ag & Advanced PSTS**

This course is designed to build on previous courses so the student can apply principles and applications of physical science, design, and safety to a project-based learning environment. Learning activities include creating and following plans, project construction, and problem-solving.

**Wildlife Management**      **Open to 10-12**      **1 Semester**  
**5 credits**      **Prerequisites: Intro to Ag**

This course provides students the opportunity to increase awareness of the principles of wildlife management and conservation. Students will closely examine ecological concepts, habitat management, wildlife species identification, and recreational opportunities that the environment and wildlife provide.

**\*\*\* All AG classes are taught rotationally, and the offerings will vary yearly.**

## **English**

**Essentials of English**      **Open to 9**      **Full Year**  
**10 Credits**      **Prerequisite: None**

This course develops students' grammar and writing skills, especially regarding formatting and argument construction. It also develops students' understanding of literature in the form of novels, plays, and short stories. This emphasis provides students with a background in major genres and styles and teaches them to dissect stories into different parts and analyze meaning.

**World Literature**      **Open to 10**      **Full Year**  
**10 Credits**      **Prerequisite: Essentials of English**

This class provides a basic introduction to literary criticism through analysis of novels, poems, and plays of various genres from different times and places around the world. Works from both within and beyond the traditional Western Canon are included. The course also covers formal and creative writing, as well as the development of public speaking skills through formal speeches and presentations.

**American Literature** **Open to 11-12** **Full Year**  
**10 Credits** **Prerequisite: World Literature**

This is a class covering novels, short stories, poetry, autobiographies, and biographies. Students read a variety of American authors, such as John Steinbeck, F. Scott Fitzgerald, Arthur Miller, Laurie Anderson, Jack London, Edgar Allan Poe, and many others. Students learn how to critically read and interpret literature, and also discover how each of these authors has contributed to the unique fabric of American literature. Students also expand their skills in writing, grammar, and public speaking.

**British Literature** **Open to 11-12** **Full Year**  
**10 Credits** **Prerequisite: World Literature**

This class develops students' abilities in formal and creative writing, emphasizing college-level writing skills. It also covers novels, poems, and plays from the British tradition throughout history, including works by Chaucer, Shakespeare, Milton, Tennyson, and Dickens, with particular emphasis on literary criticism.

**Journalism** **Open to 11-12** **Full Year**  
**10 Credits** **Prerequisite: Teacher Permission**

This class seeks to introduce students to journalism and help them develop writing and reporting skills through the creation of Lutheran High's bi-monthly newsletter, the *Eagle Flyer*, as well as the school's annual yearbook. This is an interactive elective course that will require student engagement outside of class time through interviews and other fact-gathering practices, as well as taking pictures at school activities.

**Reading** **Open to 11-12** **1 Semester/Full Year**  
**5 or 10 Credits** **Prerequisite: None**

In this class, we read, read and read some more to improve our concentration, vocabulary, fluency, and comprehension as well as the many other benefits of silent reading. Students are asked to read aloud from scripture every day. Students are allowed to choose, within reason, novels or non-fiction books that interest them. Classic literature is encouraged. Books from other classes that are required reading are not applicable for our purposes. Daily reading logs are kept, the number of pages read every day contributes to the grade. Book discussions happen at the end of each book and are graded as well. There is no final exam.

**Fine Arts**

**Introduction to Art** **Open to 9-12** **Full Year**  
**10 Credits** **Prerequisite: none**

This introductory course provides students with the opportunity to explore a variety of media and processes for creating two and three-dimensional art while successfully implementing the elements and principles of design. Students engage in brainstorming, individual and group work, research, problem-solving, self and peer evaluation, reflection, constructive criticism, and work to create collections. Artists, both living and dead, are researched for their processes and for their historical, and cultural impact.

**Art I** **Open to 10-12** **1 Semester**  
**5 Credits** **Prerequisite: Full year of Intro to Art**

This course is designed as a follow-up to Introduction to Art. Projects are designed to be more open-ended to allow students to problem-solve, practice creativity, and begin to develop their own styles as artists. Famous artists and artwork are used, both as research and as a jumping-off point for new ideas. Both two-dimensional and three-dimensional works will be assigned.

**Art II** **Open to 10-12** **1 Semester**  
**5 Credits** **Prerequisite: Art I**

This class delves into areas that a standard art class would not. Students learn many skills, such as ceramics, stained glass, oil painting, batik, and other specialty arts that are not covered in earlier courses. As with the other art courses, students utilize sketchbooks and perform research.

**Art III** **Open to 11-12** **1 Semester**  
**5 Credits** **Prerequisite: Art II**

This class is primarily for the creation of a college portfolio and is an independent study course. The portfolio is expected to be both digital and physical. The program of study consists of an agreed-upon set of sketchbooks, projects, and research. The student(s) are expected to have a written contract page to be fulfilled by the end of the semester.

**Photography** **Open to 10-12** **1 Semester/Full Year**  
**5 or 10 Credits** **Prerequisite: Intro to Art**

Photography is an elective course that utilizes DSLR cameras. Students will learn the basics of operating the camera using both manual and automatic settings. We use Adobe Photoshop for editing. The class covers the artistic use of photography as well as delving into commercial photography. The class will do some physical projects and does have the opportunity to show photos as well. Field trips are also a possibility. Most work happens in the classroom or around the school, homework is minimal and we do project final rather than a written one.

**Choir I** **Open to 9-12** **Full Year**  
**10 Credits** **Prerequisite: none**

Lutheran High Northeast Choir is a performance class that is open to all students in grades 9-12. In this class, students have the opportunity to discover the talents that God has given them in the area of music. The LHNE music program is for everyone, regardless of previous experience or "natural" talent. The main requirement is a willingness to commit to exploring and developing musical skills and an attitude of love and respect for fellow brothers and sisters in Christ as they explore and develop their own musical skills. Students develop these skills within their musical talents through the study of basic music theory, by learning and performing a variety of vocal music styles, and by encouraging one another to take on challenges, strive for excellence, and prayerfully find music as a way to grow in their faith walks.

**Choir II**  
**10 Credits**

**Open to 10-12**

**Full Year**  
**Prerequisite: Choir I**

Lutheran High Northeast Choir is a performance class that is open to all students in grades 9-12. In this class, students have the opportunity to discover the talents that God has given them in the area of music. The LHNE music program is for everyone, regardless of previous experience or “natural” talent. The main requirement is a willingness to commit to exploring and developing musical skills and an attitude of love and respect for fellow brothers and sisters in Christ as they explore and develop their own musical skills. Students develop these skills within their musical talents through the study of basic music theory, by learning and performing a variety of vocal music styles, and by encouraging one another to take on challenges, strive for excellence, and prayerfully find music as a way to grow in their faith walks.

**Band I**  
**10 Credits**

**Open to 9-12**

**Full Year**  
**Prerequisite: Prior band experience or teacher acceptance**

Lutheran High Northeast Band is a performance class that is open to all students in grades 9-12. In this class, students have the opportunity to discover the talents that God has given them in the area of music. The LHNE music program is for everyone, regardless of previous experience or “natural” talent. The main requirement is t a willingness to commit to exploring and developing musical skills and an attitude of love and respect for fellow brothers and sisters in Christ as they explore and develop their musical skills. Students develop skills within their musical talents through the study of basic music theory, by learning and performing a variety of instrumental music styles, and by encouraging one another to take on challenges, strive for excellence, foster school spirit through pep band, and prayerfully find music as a way to grow in their faith walks and give glory to God.

**Band II**  
**10 Credits**

**Open to 10-12**

**Full Year**  
**Prerequisite: Band I**

Lutheran High Northeast Band is a performance class that is open to all students in grades 9-12. In this class, students have the opportunity to discover the talents that God has given them in the area of music. The LHNE music program is for everyone, regardless of previous experience or “natural” talent. The main requirement is t a willingness to commit to exploring and developing musical skills and an attitude of love and respect for fellow brothers and sisters in Christ as they explore and develop their musical skills. Students develop skills within their musical talents through the study of basic music theory, by learning and performing a variety of instrumental music styles, and by encouraging one another to take on challenges, strive for excellence, foster school spirit through pep band, and prayerfully find music as a way to grow in their faith walks and give glory to God.

## Foreign Language

### **Spanish I 10 Credits**

**Open to 9-12**

**Full Year  
Prerequisite: None**

This course provides students with a general introduction to the Spanish language, including pronunciation, vocabulary related to everyday life, cultural information, and basic grammatical structures. It emphasizes 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 students with instruction that teaches a basic understanding of Spanish culture, vocabulary, and grammatical concepts.

### **Spanish II 10 Credits**

**Open to 10-12**

**Full Year  
Prerequisite: Spanish I and teacher permission**

This course reinforces the skills learned in Spanish I: listening, speaking, reading, and writing. It emphasizes perfecting pronunciation, mastery of basic grammatical structures, and increased proficiency in communication. Students review present tense verbs and are then exposed to the past tenses and command forms. Students are expected to apply these forms and tenses in their writing and speaking.

### **Spanish III 10 Credits**

**Open to 11-12**

**Full Year  
Prerequisite: Spanish II passed 75%**

This course builds upon knowledge gained in Spanish 1 & 2. Concepts learned in the first two levels are reviewed and implemented in students' speech and writing. Students learn new vocabulary and grammar concepts such as subjunctive mood, present perfect, and future tense. The class emphasizes developing the skills of speaking and writing the language with greater study of the literature of Spanish-speaking countries and increased understanding of cultures through readings and short stories.

### **Spanish IV 10 Credits**

**Open to 12**

**Full Year  
Prerequisite: Spanish III passed with 75%**

Fourth-year Spanish reviews and deepens all language skills. Emphasis is on speaking and writing using more sophisticated language. New grammar concepts include perfect verbs, other uses of subjunctive mood, and conditional verbs. More cultural readings and Spanish literature are also implemented.

## Mathematics

### **Algebra 1A** **10 Credits**

**Open to 9**

**Full Year**  
**None**

Algebra 1A is a math option for freshman year to get students off to a strong start on the fundamentals of algebra. We cover the material directly from the Algebra 1 textbook, taking each chapter at a slower pace and allowing more time to cover each concept. We work with solving algebraic equations and inequalities and become proficient in working with linear equations and graphing lines. We will also learn to write and solve systems of equations. We will start to introduce factoring and work some with quadratic and exponential functions as a lead into next year's class. Throughout the course, each student will be challenged to become a better problem solver, team worker, and communicator. Successful completion of this course means that the student will be ready to complete the Algebra 1 course next year in Algebra 1B.

### **Algebra 1B** **10 Credits**

**Open to 10**

**Full Year**  
**Prerequisite: Algebra 1A**

Algebra 1B is the math class taken sophomore year by those who have had Algebra 1A as freshmen. We spend significant time at the beginning of the school year reviewing math material that was covered the previous year and taking our algebra problem-solving skills up a notch. We will become even more proficient in solving equations and working with linear functions before moving on to spend significant time with quadratic equations and graphing parabolas. We will also solve problems with exponential functions, radical functions, and rational functions. Students will be challenged to develop a problem-solving plan of attack and to work in groups to come up with solutions. By the end of this class, students will have covered all the material in a traditional Algebra 1 course and be ready to take Geometry the next year.

### **Algebra I** **10 Credits**

**Open to 9-11**

**Full Year**  
**Prerequisite: None**

Algebra is the foundation of all future math classes. Topics studied include the use of variables in algebraic expressions, problem-solving with single and multi-step equations; inequalities, systems of equations, exponents, and polynomials, factoring, as well as graphing linear, quadratic, radical, and exponential functions. In this course, students develop logical thinking skills for problem-solving that prepare them for future challenges.

### **Geometry** **10 Credits**

**Open to 9-12**

**Full Year**  
**Prerequisite: Algebra I**

Geometry is a traditional approach to the study of the relationships between plane figures. Points of emphasis include the development of students' awareness of the geometric concepts present in the world, formal proofs, logic area relationships, properties of various shapes, and the deductive and inductive reasoning processes through examples and hands-on activities.



**Algebra II** **Open to 9-12** **Full Year**  
**10 Credits** **Prerequisite: Algebra I**

This is a rigorous course for average and above-average students who have completed a year of Algebra. Many of the same topics covered in Algebra 1 are reviewed. A detailed presentation of the concepts of relation and function is given. Emphasis is given to the structure of Algebra as students deepen their understanding of Algebra and touch on logarithms, conics, exponentials, probability, statistics, and a formal introduction to Trigonometry. The course may be taken alongside Geometry with approval from the Algebra teacher and Geometry teacher to allow for taking Calculus senior year.

**Advanced Math** **Open to 10-12** **Full Year**  
**10 Credits** **Prerequisite: Algebra II**

This is a course for the advancement and enrichment of mathematics that prepares students for Calculus in either high school or college. Besides a basic review of advanced Algebra and Trigonometry, topics covered include: functions, relations, matrices, the nature of graphs and their inverses, analytical Geometry, polynomials, and polar and complex planes. Students have the option to take the CLEP test at the end of the year to receive college credit for the course.

**Business Math** **Open to 12** **Full Year**  
**10 Credits** **Prerequisite: Advanced Math**

Business math is a class offered to seniors. It is a practical math class that focuses on things you need to know for life and some of those same things on the business side. Some topics covered are banking, loans, credit cards, taxes, budgeting, insurance, business costs, and marketing.

**Calculus** **Open to 11-12** **Full Year**  
**10 Credits** **Prerequisite: Advanced Math**

This course is intended for students who have a special talent in mathematics. It consists of working in Calculus and focuses on limits, derivatives, integrals, and other related topics comparable to courses in colleges and universities. Students have the option to take the CLEP test at the end of the year to receive college credit for the course.

**Physical Education and Health**

**Strength and Fitness I** **Open to 9-12** **1 Semester**  
**5 Credits** **Prerequisite: None**

This course is designed to give students the opportunity to develop weight training concepts and techniques used for obtaining optimal physical fitness. Students will benefit from comprehensive weight training and cardio-respiratory endurance activities by learning the basic fundamentals of weight training, strength training, and core strength, as well as various team game activities. Students are empowered to make wise choices, meet challenges, and develop positive behaviors in fitness, wellness, and movement activity for a lifetime while using the PLT4M Fitness app.

**Strength and Fitness II**  
**5 Credits**

**Open to 10-12**

**1 Semester**

**Prerequisite: Strength and Fitness I**

This course is designed to give students the opportunity to develop weight training concepts and techniques used for obtaining optimal physical fitness. Students will benefit from comprehensive weight training and cardio-respiratory endurance activities by learning the basic fundamentals of weight training, strength training, and core strength, as well as various team game activities. Students will be empowered to make wise choices, meet challenges, and develop positive behaviors in fitness, wellness, and movement activity for a lifetime while using the PLT4M Fitness app.

**Strength and Fitness III**  
**5 Credits**

**Open to 11-12**

**1 Semester**

**Prerequisite: Strength and Fitness II**

This course is designed to give students the opportunity to develop weight training concepts and techniques used for obtaining optimal physical fitness. Students will benefit from comprehensive weight training and cardio-respiratory endurance activities by learning the basic fundamentals of weight training, strength training, and core strength, as well as various team game activities. Students will be empowered to make wise choices, meet challenges, and develop positive behaviors in fitness, wellness, and movement activity for a lifetime while using the PLT4M Fitness app.

**Health**  
**5 Credits**

**Open to 9-12**

**1 Semester**

**Prerequisite: None**

This class is taken online through a school named Ignitia. This self-paced, Christian health class is monitored by an LHNE teacher and can be completed during a study hall. The curriculum introduces students to the concepts of what good health is, why good health is important, and what students should do in order to achieve good health.

**Practical Arts**

**Computer Applications**  
**5 Credits**

**Open to 9-10**

**1 Semester**

**Prerequisite: None**

In this course, students explore emerging technologies as it applies to success in high school, college, and careers. The focus of the class is the importance of digital citizenship, professional communication practices, advanced document processing, professional presentations, and intermediate spreadsheet and database applications for personal and professional use.

**Accounting**  
**10 Credits**

**Open to 11-12**

**Full Year**

**Prerequisite: None**

This course presents the fundamental principles of accounting and is designed to emphasize the theory of accounting. The accounting cycle is presented as it pertains to proprietorships, partnerships, and corporations. Extensive accounting vocabulary and theory challenges students to develop skills that can be used in life as a work ethic and establishes an understanding of the accounting cycle.

**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.

**Introduction to Business  
5 Credits**

**Open to 10-11**

**1 Semester  
Prerequisite: None**

Business Fundamentals is an introductory-level business course designed to acquaint students with an understanding of how a market economy operates. The primary focus is on basic business concepts and includes economics, international business, and job-seeking skills, professionalism, entrepreneurship, management, and marketing. Students develop a business plan for a food truck.

**Marketing  
5 Credits**

**Open to 11-12**

**1 Semester  
Prerequisite: None**

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 in 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.

**Personal Finance (DC)  
5 Credits**

**Open to 11-12**

**1 Semester  
Prerequisite: None**

This course covers the basic principles needed for effective personal finance management, including the practical applications of money management, budgeting, taxes, credit, insurance, housing, investments, and retirement planning.

**Practical Life Skills  
5 Credits**

**Open to 11-12**

**1 Semester  
Prerequisite: none**

In this class, students explore three areas of Practical Life Skills: food, textiles, and group dynamics. In the area of foods, students develop meal preparation and kitchen management skills, nutrition basics, and food sourcing. The textile component consists of basic hand-sewing techniques for hemming and button replacement as well as machine sewing projects appropriate to the skill levels. Care, selection, and maintenance of textiles may include laundry, ironing, or upcycling furniture. Students learn to problem solve, delegate tasks, and function as both leaders and part of the group in various activities.

## Social Studies

### **Geography and Global Issues 10 Credits**

**Open to 9-12**

**Full Year  
Prerequisite: None**

This class develops students' understanding of both physical and human geography. It particularly emphasizes the differences in the many cultures and ideologies around the world, including relationships between peoples and countries. The course also covers major issues with worldwide impact, such as globalization and extreme poverty.

### **World History (DC) 10 Credits**

**Open to 10**

**Full Year  
Prerequisite: Geography**

This is a survey of the history of civilizations from the beginning of civilization to modern times. It focuses on major themes during various time periods and traces the larger narrative of history, paying close attention to "hows" and "whys." In addition, students learn to consider different perspectives of various people, developing a sense and understanding of the world and knowing why it is the way it is today. It also seeks to demonstrate that actions have consequences, big or small, and that everyone has a role to play with the time that God has given them on Earth.

### **U.S. History (DC) 10 Credits**

**Open to 11**

**Full Year  
Prerequisite: World History**

This course looks at the history of the United States from the nation's beginnings through World War II. Much attention is given to the "how" and "why" of American growth and expansion, with an emphasis on the religious, cultural, political, economic, social, and intellectual ideas that have shaped the United States. Events are discussed as objectively as possible, while bringing attention to various biases, preconceptions, and perspectives. The goal is to not only understand how America has developed through its history (and all the positive and negative impacts it's had), but also to practice using that knowledge to make informed arguments about contemporary situations.

### **American Government (DC) 5 Credits**

**Open to grade 12**

**1 Semester  
Prerequisite: U.S. History**

This course is designed to encourage students to become informed and responsible citizens of the United States with a healthy understanding of their own political self-efficacy. Emphasis is placed on the foundational ideas of the American system of government adopted at its founding, knowledge of government structures and functions and how they affect citizens and the liberties, rights, and responsibilities borne by citizens of the United States. Part of this process is engaging in conversations about the political issues facing the country today and learning how to intellectually listen and respond to people who see issues differently.

### **Modern Problems 5 Credits**

**Open to 12**

**1 Semester  
Prerequisite: American Government**

The goal of this course is to allow students to think about the world they live in, their views of it and themselves, and what factors affect their views. We will work on skills like critical thinking, writing, participating in discussion and discourse and argument, and research. We will conduct

an overview of psychology and various psychological concepts relevant to students preparing to graduate high school. The course will also ask students to consider questions about worldview, what values are important for a society, and how they (as Christians) should approach these questions and issues. Finally, students will examine a variety of contemporary issues through various lenses and seek to teach students how to research, discern information, understand nuance and perspective, and discuss tough issues with patience, grace, and understanding.

## **Science**

**Earth Science**  
**10 Credits**

**Open to 9**

**Full Year**  
**Prerequisite: None**

This course explores the nature of scientific inquiry through the study of the Earth with an emphasis on geology. After learning about how to do science, students use those skills in the study of the materials that make up the Earth, the changes that the Earth undergoes through erosion and plate tectonics, and examining the uses of the Earth's natural resources--especially rivers and groundwater. It emphasizes Christians' role as stewards and God's role as the Creator. The course is designed to be taken by students of all ability levels.

**Biology**  
**10 Credits**

**Open to 10**

**Full Year**  
**Prerequisite: Earth Science**

This course continues the development of students' skills in scientific inquiry while examining life on Earth. Because the study of biology is so broad, this course focuses on the thing that all life has in common—cells. Students develop microscope skills by exploring the elements of design in different types of cells, parts of the cell, cell processes, and genetics. Students finish the year exploring the potential of biotechnologies while also developing a framework to judge what should or should not be done. Students also examine natural selection and how evolutionist and creationist models incorporate this process into their ideas about the origin of species. This course is designed to be taken by students of all ability levels.

**Chemistry (DC)**  
**10 Credits**

**Open to 11-12**

**Full Year**  
**Prerequisite: Success in Algebra 1**

Chemistry explores the nature of matter at a level that prepares students for success in a college chemistry course. The course walks through the history of the current model of the atom and how experimental evidence has changed it over the last couple of centuries. Students learn the connection between the periodic table and the structure of the elements' atoms. They also develop their skills in using formulas and equations to describe matter and change. The kinetic theory of matter is used to explain the nature of solids, liquids, and gases. Since many scientific processes are described quantitatively, a firm grasp of algebraic concepts is vital to a student's success in chemistry.

**Human Anatomy & Physiology (DC)      Open to 12      Full Year**  
**10 Credits      Prerequisite: Biology**

Human anatomy and physiology explores the design and function of the many parts of the human body. The course tours the human body system by system. In each system, students examine the organs and tissues that allow the system to perform its function, as well as well as diseases that could cause the system to fail. It is a rigorous course designed for students with an interest in human or veterinary medicine, biology, or other health-related fields. However, anyone with an interest in seeing God's hand in His most magnificent creation is encouraged to enroll in this course.

**Physics      Open to 12      Full Year**  
**10 Credits      Prerequisite: Algebra 2**

Physics is a full-year laboratory course for the student who wants a better understanding of the world or is interested in a career in a math or science-related field. Physics is a science that attempts to conceptually and mathematically explain what happens in the world. Students will learn the theory and mathematical rationale behind topics such as motion, forces, work, energy, light, sound, kinematics, and circular movements.

**Zoology      Open 11-12      Full Year**  
**10 Credits      Prerequisite: Biology**

Zoology class is the study of animals. It covers the features of all the major animal groups. It also examines the methods of classification based on features and what features natural selection and evolution are capable of producing.

**Theology**

**Old Testament      Open to 9      Full Year**  
**10 Credits      Prerequisite: None**

This course focuses on God's Old Testament people and the covenant He had with them throughout Scripture. It follows the ups and downs of people and their faiths and follows God the Creator as His people wait for a Savior. Students in this class encounter ninety days through the Old Testament, including units on the Ten Commandments and prayer.

**New Testament      Open to 10      Full Year**  
**10 Credits      Prerequisite: Old Testament**

This course points students to God's plan of salvation for all. Christ, the main focus, is shown as "God with us" and leaves humanity with the promise to come back and make a new heaven and earth. Students will encounter ninety days through the New Testament, including units on Acts, Miracles of Jesus, and superheroes.

**Doctrine 11      Open to 11      Full Year**  
**10 Credits      Prerequisite: New Testament**

This course focuses on the doctrine and history of the Lutheran and Christian Church, from the early years of the Church to the present day.

**Theology 12**  
**10 Credits**

**Open to 12**

**Full Year**  
**Prerequisite: Doctrine 11**

This course focuses on the religions of the world and what they believe, as well as how Christians can share the Gospel message to the lost, with a focus on the truths in Scripture and Lutheran Doctrine. The course also focuses on dating, marriage and the family, and how God works through Christians as they plan for the future.

**Special Areas**

**Study Hall**  
**0 Credits**

**Open to grades 9-12**

**1Semester/Full Year**

Students have the option to have one study hall per semester/year. When they are juniors and seniors, they have the option to take two study halls if they are enrolled in a college course that isn't offered on our campus.

**Online Classes**  
**Credits depend on school**

**Open to grades 11-12**

**1Semester**

**Prerequisite: Must meet GPA and good standing requirements**

In their junior year students are allowed to take college courses through any college that allows high school students to take college course while in high school. The students must have a 3.0 GPA and be in good standing with the school. They will also have to print progress reports once every two weeks for the Guidance Counselor to prove they are still enrolled in the class. The students/parents are solely responsible for the financial commitment for each class.