

LUTHERAN HIGH SCHOOL

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ACADEMIC HANDBOOK 2011-2012

**(Updated 4/15/2011)
Course Descriptions
Graduation Requirements**

Lutheran High School – Academic Handbook 2011-2012

Dear Students and Parents,

It is our wish that LHS would provide an excellent experience for all of its students as they prepare for life after high school. We are committed to providing the proper resources and guidance for students as they discover how best to use the gifts and talents that the Lord has given to them.

College and career planning should be a joint effort between the student, parents, teachers, and the guidance counselor. It starts the very first day that a student steps foot in the door at LHS. We desire every student to find the vocation in life in which they can serve God to the fullest.

Please check our “college and career” web page at www.lhsparker.org/inside/college.html for all information concerning college and career planning. Please do not hesitate to contact us with further questions.

Sincerely,

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CREDITS EARNED

Lutheran High School is owned and operated by the Colorado Lutheran High School Association, an organization pledged to provide a balanced Christ-centered education on the secondary level. Lutheran High is accredited by the North Central Association of Schools, the Colorado State Board of Education, and National Lutheran Schools. Credits earned at Lutheran High School may be transferred easily to high schools and colleges throughout the United States and to United States accredited schools overseas. Each full year course meeting every day receives one (1) unit of credit per year. Half year courses will receive one-half (1/2) credit.

GRADUATION REQUIREMENTS

To graduate, a student must have earned 24 units of credit as outlined below, plus one-half unit of Theology for every semester in attendance. In addition to the Theology credits, the twenty-four (24) units include the following:

English	4 units	Physical Education	2 units
Science	2 units	Computer Applications	1/2 unit
Mathematics	3 units	Fine Arts	1 unit
Social Science	3 units	Electives	8.5 units

It is the responsibility of all students to develop their course of study with assistance from parents, teachers and the guidance counselor. Toward the end of the freshman year, students will decide which course they wish to follow and subsequently will inform the guidance counselor of their plans. College preparatory students should report the college of their choice as early in their high school career as possible. It is the responsibility of all students to make sure they meet all the requirements for graduation.

STUDENT LOAD

Students will have 8 courses in their schedule. This schedule allows a student to earn 8 credits per year. Juniors and seniors may take college classes or work-study opportunities for credit, which must be approved **in advance** by the guidance counselor. Any other deviation from this policy must have the principal's approval **in advance**.

GRADING

A statement of purpose concerning grades

Grading as a way of assessing the progress of students has several purposes:

1. It is a way of communicating progress to the student and parent.
2. It monitors a student's progress over a period of time.
3. It can serve to motivate the student to improve performance.
4. It allows a teacher to measure effectiveness of instruction.

Students are evaluated in a variety of areas that include quizzes, tests, homework, attendance, class participation and contribution, performances, special projects, and initiative. In order to more clearly communicate how Lutheran High School evaluates students and determines grades, a five category ranking system is used. Grades are defined in the following manner:

100 - 90%	A	Superior and outstanding performance.
89 – 80%	B	Good performance.
79 – 70%	C	Average performance.
69 – 60%	D	Weak, but passing performance.
below 60%	F	Unacceptable performance.

Using these criteria, each teacher devises a system to quantify student performance in such a way that it can be clearly defined and explained to students and parents.

ADDITIONAL CONSIDERATIONS RELATED TO GRADING

1. Comprehensive semester exams will be given to all students except in performance classes. In these classes, the administration of a final exam is left to the discretion of the teacher. Students who do not take the semester exams will receive a failing grade for the exam. A semester exam may not count more than one-third of the term grade.
2. Students who copy, cheat, or plagiarize on an assignment, test or quiz will receive no credit for that assignment, test or quiz.
3. It is the responsibility of the student to know what his/her grade is in a course at any time. This can be accomplished by viewing grades online or by asking the teacher for a grade report. Teachers will make every effort to effectively communicate current grades on a weekly basis. Within two weeks of the end

of each semester, teachers will generate current grade reports for students that also include assignments and possible points for the remainder of the semester.

4. A grade of "incomplete" will be given when students have not completed the major requirements of a course because of absences due to illness or to other reasons over which they have no control. Normally an "incomplete" must be removed within two weeks after the semester ends. In the event the uncompleted work is not turned in or tests are not taken, the teacher will assess the grade based on the student's effort demonstrated during the marking period less a failing grade for all work or tests not completed.
5. Late work not caused by absence from school will be subject to academic penalty as determined by the teacher. It is generally recommended that teachers give half-credit for late work turned in one day late and no credit for work turned in more than one day late.
6. Students who fail more than one class in a semester will be placed on academic probation.

REPORT CARDS

The school year is divided into two semesters. After the first and third quarter, students will receive an in-progress grade. A final grade based on the entire semester, including the final exam, will be given shortly after the end of the semester. This is the semester grade that is entered into the permanent record together with the amount of credit earned.

TRANSFER OF CREDITS

1. Ordinarily, all credits in courses required for graduation should be taken at Lutheran High School. Lutheran High School will accept credits for required courses from schools in which the courses were taken during the regular academic year.
2. No course should be taken outside Lutheran High School and counted toward meeting the requirements for graduation until it has first been approved by the guidance counselor or administration.
3. A student may transfer two units of summer school credit per year toward graduation (regular classroom credit). Generally, only students who have not received a passing grade may take summer school. Any exceptions should be approved by the guidance counselor or administration.
4. Alternate credits (i.e. online courses) will be counted toward meeting the requirements only with the approval of the guidance counselor or administration.

DROPPING A COURSE

A student may drop a semester course within **ten class days** without loss of credit.

If a student drops a course after the first ten class days of a semester, he/she receives a grade of WF (withdrawal failure) and that grade will appear on his/her transcript and count as if an "F" was received.

A dropped course must be initiated following either one of these procedures:

1. Parents / guardians may write a letter to the principal or guidance counselor and request that a course be dropped. The letter will be placed in the student's permanent file.

2. The guidance counselor or principal could request that a student drop a course. In that case, a request for dropping the course is to be completed and sent to the parents for approval.

MARKING, CLASS RANK, AND GPA

Marks - for all regular courses

A = 4 points per semester for each 5 period/week class - .5 unit credit

B = 3 points per semester for each 5 period/week class - .5 unit credit

C = 2 points per semester for each 5 period/week class - .5 unit credit

D = 1 point per semester for each 5 period/week class - .5 unit credit

F = 0 points per semester for each 5 period/week class - no credit

Marks - for all honors and advanced placement courses

A = 5 points, B = 4 points, C = 3 points, D = 2 points, and F = 0 points

Class rank and grade-point average

1. Marks for all subjects for which credit is given, whether passed or failed, will be used in computing grade-point averages (also called current average).
2. Marks for high school courses taken in grade 7 and 8 are not to be included when computing grade-point averages and are not to be included in the 28 (24 plus Theology courses) units required in the 9th-12th grades for graduation. A student may elect to receive credit for summer school courses during the summer previous to the 9th grade.
3. If a student repeats a course failed or repeats a course to improve the grade, only the mark and credit received the second time the course was taken is to be used in computing the grade-point average and total credit.
4. The grades of a student who transfers to Lutheran High School are considered on the same basis as those of a student who has been enrolled in Lutheran High School for his/her entire high school experience. All procedures outlined in this handbook apply also to transfer students.

Lutheran High School Graduation Requirements and College Admission Requirements

Subject Areas	Lutheran High School	Four-year Colorado Colleges and Universities	Princeton University
Social Studies	3 units	3 units (At least one unit of U.S. or World History)	2 units
English	4 units	4 units	4 units
Math	3 units	4 units (Must include Algebra I, Geometry, Algebra II or equivalents)	4 units
Science	2 units	3 units * (Two must be lab-based)	2 units
Foreign Language	0 units	1 unit	4 units (same language)
Electives	8.5 units	2 units *	Varies
Computer	½ unit	0 units	0 units
PE/Health	2 units	0 units	0 units
Fine Arts	1 unit	0 units	“some”
Theology	4 units	0 units	0 units
TOTAL	24 units + Theology	17 units	16+ units

*Acceptable Academic Electives include additional courses in English, mathematics, natural/physical sciences and social sciences, foreign languages, art, music, journalism, drama, computer science, honors, Advanced Placement, International Baccalaureate courses, and appropriate CTE courses.

NCAA ELIGIBILITY CENTER (for college-bound student-athletes)

The purpose of the NCAA Eligibility Center is to certify the academic and amateur credentials of all college-bound student-athletes who wish to compete in NCAA Division I or II Athletics. Students who want to participate in athletics or receive an athletic scholarship during their first year must satisfy the following academic requirements:

DIVISION I	DIVISION II (2009-July 31, 2013)
<ul style="list-style-type: none"> • Graduate from high school • Complete 16 core courses <ul style="list-style-type: none"> ✓ 4 years of English ✓ 3 years of math (Algebra 1 or higher) ✓ 2 years of natural or physical science (including one year of lab science) ✓ 1 extra year of English, math, or natural or physical science ✓ 2 years of social science ✓ 4 years of extra core courses (from any category above or foreign language, non-doctrinal religion or philosophy); • Earn a minimum required grade-point average in core coursework. • Earn a combined SAT or ACT sum score that matches your core-course grade point average on a sliding scale. <p>Requirement to graduate with your high school class:</p> <p>You must complete the 16 core-course requirements in eight semesters, which begins when you initially started high school with your ninth-grade class. If you graduate from high school in eight semesters with your class, you may use one core course completed in the year after graduation (summer or academic year) to meet NCAA Division 1 eligibility requirements. You may complete the core course at a location other than the high school from which you graduated and may initially enroll full time at a collegiate institution at any time after completion of the core course.</p>	<ul style="list-style-type: none"> • Graduate from high school • Complete 14 core courses <ul style="list-style-type: none"> ✓ 3 years of English ✓ 2 years of math (Algebra 1 or higher) ✓ 2 years of natural or physical science (including one year of lab science) ✓ 2 extra years of English, math, or natural or physical science ✓ 2 years of social science ✓ 3 years of extra core courses • Earn a 2.0 grade point average or better in your core courses. • Earn a combined SAT score of 820 or an ACT sum score of 68.

At the beginning of the junior year, students desiring to compete in NCAA Division I or II Athletics need to register with the NCAA Clearinghouse at <http://eligibilitycenter.org>. To create an account, either click on the “New Account” button at the top right of the screen or the cell phone on the left side of the screen.

SUMMARY OF COLLEGE ENTRANCE EXAMINATIONS

As students prepare for college, they will encounter at least one (and probably more than one) of the following college entrance exams:

- PSAT/NMSQT: Preliminary Scholastic Aptitude Test/National Merit Scholarship Qualifying Assessment Test.
- SAT (Reasoning Test): Scholastic Aptitude Test
- ACT: American College Testing Exam
- SAT Subject Tests

Standardized testing requirements vary from college to college. Students should consult their prospective colleges and universities when deciding which tests to take, as colleges require either the ACT or the SAT (in rare occurrences, both).

Testing Summary

PLAN	PSAT	SAT	ACT	SAT Subject Test
<p>One 30-minute English section, one 40-minute math section, one 20-minute reading section, and one 25-minute science section. Does not include an essay.</p> <p>Measures skills in four basic academic areas important for college and career readiness. Not used to determine admissions; intended to help 10th graders prepare for the ACT by showing your academic strengths and weaknesses.</p> <p>Similar to the ACT but shorter.</p> <p>Scores on each section are averaged to create a composite score. A perfect score is 32.</p>	<p>Two 25-minute critical reading sections; two 25-minute math sections; one 30-minute writing skills section. Does not include an essay.</p> <p>Measures skills in three basic academic areas important for college success.</p> <p>Not used to determine college admissions; intended to help 11th graders to prepare for the SAT.</p> <p>Similar to the SAT, but shorter.</p> <p>Score range is between 20 and 80, with 80 being a perfect score. If you perform well on the PSAT (obtain a qualifying Selection Index Score), you may qualify for the National Merit Scholarship Program (a nationally distributed merit-based scholarship). Only scores from the junior year are used to determine qualification for the National Merit Program.</p>	<p>One 3-hour and 20-minute exam.</p> <p>Measures verbal, math reasoning, and writing skills. Does not include science.</p> <ul style="list-style-type: none"> • Critical Reading: Mix of reading comprehension and sentence completion that requires vocabulary enterprise. • Math: Basic Geometry and Algebra 2. • Writing: Essay is the first section; 25 minutes. Factored into score on multiple-choice section on grammar usage and word choice. <p>Each section of the SAT is scored on a scale of 200-800 with additional subscores for the essay (2-12) and multiple-choice writing questions (20-80). A perfect score is 2400.</p> <p>All American universities will accept either the SAT or ACT tests.</p>	<p>One 3-hour exam and an optional 30-minute writing test.</p> <p>Measures achievement in English, math, reading, and science.</p> <ul style="list-style-type: none"> • English: Measures standard written and rhetorical skills. Math: Measures skills students have typically acquired in courses taken up to the beginning of 12th grade. • Reading: Measures reading comprehension. • Science: Measures the interpretation, analysis, evaluation, reasoning, and problem-solving skills required in natural sciences. • Writing(optional): Measures writing skills emphasized in high school and in entry-level college composition courses. <p>Scores on each section are averaged to create a composite score. A perfect score is 36.</p>	<p>One 1-hour test that assesses mastery of a particular field of study. Up to three tests can be required for college admissions. Some universities use the SAT Subject Test for course placement; others do not require it at all.</p> <p>Twenty (20) tests are offered in five subject areas:</p> <ul style="list-style-type: none"> • English • Math • History • Science • Foreign Language <p>Scores are based on a 200-800 point scale.</p>

Advanced Placement (AP) Program

For those Lutheran High School students prepared for university level academic challenges, Advanced Placement (AP) courses are offered. The primary reason for students taking these courses is a desire to accept and tackle a difficult intellectual challenge. These courses are essentially college courses offered in a high school setting and each of our instructors and the accompanying course have gone through a rigorous process to become approved by the College Board.

The AP Exams are given on nationally prescribed dates in May. Grades are assigned on a basis of 1-5, with a 3 or higher generally considered to be passing scores. Many colleges give credit for a score of 3, 4, or 5. However, it is noted that some public and private colleges will only give credit for a 4 or 5. Each university typically has its own criteria for accepting AP exam scores.

Some ideas to consider when registering for an AP course:

- It is of vital importance that students choose classes and activities wisely. Students need to be careful not to over extend themselves.
- Course requirements may be in excess of what might be expected from a normal advanced course. To be successful, students must accept the fact that it is an exceptional course, which may make unusually heavy demands on their time and energy.
- One of the greatest challenges is the requirement that students remain consistent throughout the year. In regular courses, a bright, high-ability student can let his or her effort slide a little from time to time and make up for it with extra effort before a test. However, this strategy will threaten even the most gifted student's chances of passing the AP exam.
- Typically, an AP course will require extra meeting time outside of class, especially for help sessions and a practice AP exam in the spring.
- Most of the AP courses encompass a conceptual approach, which covers all the diverse parts of a subject matter as a mesh of unifying themes. Being able to comprehend the "big picture" and the ability to articulate those ideas on tests are foundational expectations of any AP course.
- AP coursework is more than passing an exam for college credit. It will help prepare students for the rigors and challenges of college academics. It may help them to discover interests and skills they might not have been aware of, and levels of accomplishment they might not have believed they could reach before. AP classes are challenging, fast paced, and meaningful educational opportunities.

Advanced Placement Courses

English Language and Composition

English Literature and Composition

United States History

Calculus AB

Calculus BC

DEPARTMENTS

ART

Course selection can be constructed in the following manner:

Freshmen	Sophomore	Junior	Senior
Drawing/Painting I (1/2)	Drawing/Painting I (1/2) Ceramics (1/2) Crafts/Print-making (1/2)	Intro to Computer Graphics (1/2) Drawing/Painting II (1/2) Ceramics (1/2) Crafts/Print-making (1/2)	Intro to Computer Graphics (1/2) Drawing/Painting II (1/2) Ceramics (1/2) Crafts/Print-making (1/2)
Drawing/Painting I (1/2)	Intro to Computer Graphics (1/2) Drawing/Painting II (1/2) Ceramics (1/2) Crafts/Print-making (1/2)	Intro to Computer Graphics (1/2) Drawing/Painting II (1/2) Ceramics (1/2) Crafts/Print-making (1/2)	Intro to Computer Graphics (1/2) Drawing/Painting II (1/2) Ceramics (1/2) Crafts/Print-making (1/2)

Drawing / Painting I 9-12 Elective 1/2 Unit Credit

The first quarter of this class is geared toward developing basic drawing skills using a variety of drawing media and techniques. The second half of the semester is devoted to learning the art of painting.

Drawing / Painting II 9-12 Elective 1/2 Unit Credit

Drawing will be the focus of the first half of this semester class and painting the focus of the second half. The assignments will be more challenging and will build on what was learned in Drawing/Painting I. Students will be challenged to think creatively and to take risks in developing their skills. Prerequisite—Drawing/Painting I

Ceramics / 3D Sculpture 9-12 Elective 1/2 Unit Credit

The first half of this course will be devoted to learning basic hand-built pottery techniques. With that foundation, the second half of the class will become progressively more challenging, with students learning to make more advanced three-dimensional artwork using clay, paper mache', wire, and other materials.

Crafts / Print Making 9-12 Elective 1/2 Unit Credit

The first half of this semester class will focus on artistic crafts and craftsmanship. Stained glass, batik, papermaking, bookbinding, mosaic tiling, and other areas will be explored. In the second part of this class, students will learn basic print-making methods, such as etching, silk screening, embossing and block printing.

Introduction to Computer Graphics 9-12 Elective 1/2 Unit Credit

Students will learn how to use graphic design software including Adobe, Illustrator, and PhotoShop. Assignments are artistic in nature.

Honors English Course Track

Honors Intro to Literature 9 Elective 1 Unit Credit

This is an accelerated course of study based on the same educational criteria and focus of Intro to Literature.
Prerequisite – Department Consent

Honors American Literature 10 Elective 1 Unit Credit

This is an accelerated course of study based on the same educational criteria and focus of American Literature.
Prerequisite – Department Consent

Advanced Placement Language & Composition 11 Elective 1 Unit Credit

This A.P. English course provides accelerated, motivated juniors an opportunity to do college-level work. Students who wish to receive college credit will take the Advanced Placement Language and Composition Examination given nationally each May. Students can earn college credit with a successful score on the AP exam. The course focuses on the essentials of language and writing skills, including grammar usage and literary devices. Prerequisite— Department Consent.

Advanced Placement Literature & Composition 12 Elective 1 Unit Credit

This A.P. English course provides accelerated, motivated seniors an opportunity to do college-level work. Students who wish to receive college credit will take the Advanced Placement Literature and Composition Examination given nationally each May. Students can earn college credit with a successful score on the AP exam. The course focuses on intensive reading of world literature from the ancient Greeks to the contemporary classics, with an emphasis on British and American authors. An in-depth study of novels, plays, essays, short stories, and poetry provides the core for writing assignments, projects, and discussions. Prerequisite— Department Consent.

English Electives

Creative Writing 11-12 Elective 1/2 Unit Credit

This course is designed for students to learn how to write in a variety of genres and styles. It will provide a basis for College Prep Writing as well as serve to improve the students' overall writing ability and skill.

College Prep Writing 11-12 Elective 1/2 Unit Credit

This course is designed to emphasize the writing skills that are absolutely imperative for students who wish to continue their formal education after graduating from high school. This class is supplemental to the junior or senior level English classes and includes intensive writing instruction. Students will be exposed to and produce several different forms of writing. They will not only master process writing and produce "finished" work (proofread and edited), but also be challenged to solve problems, do close readings of texts to find support for theories, and produce convincing arguments in their writing. A close study of grammar and usage will coincide with the writing instruction.

Journalism 11-12 Elective 1 Unit Credit

This course will primarily focus on producing the school's newspaper. In addition, the students will learn about the history of journalism and various writing, layout, and production techniques.

FOREIGN LANGUAGE

Course selection can be constructed in the following manner:

Freshmen	Sophomore	Junior	Senior
Spanish I (1) French (1)	Spanish II (1) French II (1)	Spanish III (1) French III (1)	Spanish IV (1)
	Spanish I (1) French I (1)	Spanish II (1) French II (1)	Spanish III (1) French III (1)
		Spanish I (1) French I (1)	Spanish II (1) French II (1)

Spanish I 9-12 Elective 1 Unit Credit

Spanish I is an introductory course to the Spanish language. Emphasis will be placed on pronunciation, conversation skills, and oral communication so that the students may use the language as quickly as possible. Students will master basic vocabulary and speech patterns in the present tense and begin using the preterit (past) and imperative tenses. Spanish and Latin American cultures will also be emphasized through the use of reading, music, film, geography, projects, and other class activities.

Spanish II 9-12 Elective 1 Unit Credit

Students will continue their study of Spanish language, culture, and geography in this speech and conversation oriented course. Students will master speech patterns in the past, imperative and present perfect tenses and begin their study of future and conditional tenses. Pronunciation, vocabulary, and confidence in speech will be emphasized. Students will work in all verb tenses previously studied and begin work in the subjunctive mood. Cultural study through reading and class activities will continue. Prerequisite—Spanish I and Department Consent

Spanish III 9-12 Elective 1 Unit Credit

Spanish III is a continuation of course work accomplished in Spanish II. Independent projects will be assigned and selections from literature, history and the arts will be used for reading comprehension and greater cultural awareness. Students will be expected to communicate in the target language most of the time. Prerequisite—Spanish II and Department Consent

Spanish IV 9-12 Elective 1 Unit Credit

Students will continue the course work accomplished in Spanish III and will review and master previously learned tenses. Students will also continue to work in the subjunctive mood. Literature and current events of the Spanish language will be utilized. Students will complete independent projects and teach lessons, using the target language. Prerequisite—Spanish III and Department Consent

Spanish V 9-12 Elective 1 Unit Credit

This independent study course, entirely in Spanish, is a continuation of Spanish IV course work. Students will read contemporary materials taken from popular Hispanic magazines. A writing practice guide will also be used to develop a combination of knowledge, skill, and creativity in the target language. Both the reading and writing will stimulate students to actively engage in meaningful conversation and class discussion, with teacher supervision. Prerequisite—Spanish IV and Department Consent

French I 9-12 Elective 1 Unit Credit

French I is an introductory course to the French language. Emphasis will be placed on pronunciation, conversation skills and oral communication so the students may use the language as quickly as possible. Students will master basic vocabulary and speech patterns in the present tense and begin using the preterit (past) and imperative tenses. French cultures will also be emphasized through the use of reading, music, film, geography projects and other class activities

French II 9-12 Elective 1 Unit Credit

Students will continue their student of the French language, culture and geography in this speech and conversation oriented course. Students will master speech patterns in the past, imperative and present perfect tenses and begin their study of future and conditional tenses. Pronunciation, Cultural study through reading and class activities will continue. Prerequisite – French I and Department Consent

French III 10-12 Elective 1 Unit Credit

A continuation of course work accomplished in French II, students will work in all verb tenses previously studied and begin work in the subjunctive mood. Independent projects will be assigned and selections from literature, history and the arts will be used for reading comprehension and greater awareness. Students will be expected to communicate in the target language most of the time. Prerequisite - French II and Department Consent

MATHEMATICS

Course selection can be constructed in the following manner:

Freshmen	Sophomore	Junior	Senior
Algebra (1)	Geometry (1)	Advanced Algebra (1)	Pre-Calculus (1) Statistics (1) Consumer Math (1/2)
Geometry (1)	Advanced Algebra (1)	Pre-Calculus (1) Statistics (1)	AP Calculus AB Statistics A (1)
Advanced Algebra (1)	Pre-Calculus (1) Statistics (1)	AP Calculus AB (1) Statistics (1)	AP Calculus BC IS (1) Statistics (1)

Algebra I 9-12 Elective 1 Unit Credit

Algebra I includes the following topics: introduction to algebra, positive and negative numbers, equations and inequalities, problem-solving, using equations, operations and polynomials, special products and factoring, graphs, linear equations and functions, systems of linear equations, fractions and fractional equations and radical expressions. Prerequisite –none.

Consumer Math 9-12 Elective 1/2 Unit Credit

This course reviews some of the basic skills used in mathematics with some emphasis on the basic operations, as well as some review of fractions, percents and decimals, metric measurements and conversion problems. It also includes everyday skills needed in balancing a checkbook, figuring wages, price comparisons, and similarly related topics. Prerequisite—Department Consent

Geometry 9-12 Elective 1 Unit Credit

Geometry is a mathematics course which studies the various properties of geometric figures and how these relate to each other. Proofs, as used in this course, are designed to enhance critical thinking skills and problem-solving techniques by helping the student identify a problem, examine the alternatives, and work through the problem to a solution. Prerequisite—Algebra and Department Consent

Advanced Algebra/Trigonometry 9-12 Elective 1 Unit Credit

Advanced Algebra/Trigonometry expands on topics introduced in Algebra I and includes the study of linear equations and inequalities, expansion and factoring of polynomials, rational expressions, radicals and exponents, complex numbers, quadratic equations, functions, and logarithms. An introduction to analytic geometry and trigonometry are also given. Prerequisite—Geometry and Department Consent

Statistics 11-12 Elective 1 Unit Credit

This course is designed for students to be able to make meaningful comparisons among data, and be able to draw reasonable conclusions. Students will enhance their critical thinking skills through topics such as data collection, organization of data (including graphical representation, probability, and probability distributions), and hypothesis testing. Practical examples are used throughout the course. Prerequisite—Algebra I, Geometry, and Department Consent
(Also offered as an independent study.)

Pre-Calculus 9-12 Elective/Honors 1 Unit Credit

Pre-Calculus uses and applies material from a number of branches of mathematics previously studied and makes connections between them. The course gives students experience in using the algebra and analytic geometry needed for the study of Calculus. Emphasis is also placed on the functions, identities, and applications of trigonometry. Prerequisite—Advanced Algebra/Trig. and Department Consent

Advanced Placement Calculus AB 11-12 Elective/Honors 1 Unit Credit

Calculus is designed to give students experience in a college level mathematics course, in order to prepare them for first semester Calculus. Topics include limits, derivatives, integration, areas of regions with curved boundaries, and solids of revolution. This course gives the student an intuitive understanding of the concepts of calculus and experience with its methods and applications. Students will be given the option of taking the Advanced Placement Calculus AB exam. Prerequisite—Department Consent

MUSIC

Course selection can be constructed in the following manner:

Freshmen	Sophomore	Junior	Senior
Concert Band (1)	Concert Band (1)	Concert Band (1)	Concert Band (1)
Concert Choir (1)	Concert Choir (1)	Concert Choir (1)	Concert Choir (1)
		Praise Team (1)	Praise Team (1)

Concert Band 9-12 Elective 1 Unit Credit

Concert Band gives the intermediate and advanced instrumentalist opportunities for group, ensemble, and solo performances. Performances outside of the school day are included in the course curriculum and count toward the grade for this class. Prerequisite—Audition or Department Consent

Choir 9-12 Elective 1 Unit Credit
 Choir is a study of mostly sacred choral music. It provides opportunities to increase musicianship skills, sight reading and singing harmony in a choral organization.

Praise Team 11-12 Elective 1 Unit Credit
 This course provides the opportunity for musicians to develop skills in leading singing in a worship setting. They will have the opportunity to lead chapels and participate in worship leadership in other settings.

PHYSICAL EDUCATION/HEALTH

Course selection can be constructed in the following manner:

Freshmen	Sophomore	Junior	Senior
Women’s Fitness (1)	Men’s Christian Decisions (1/2)	Strength Training (1/2)	Strength Training (1/2)
Men’s Fitness (1)	Women’s Christian Decisions (1/2)	Lifetime Activities (1/2)	Lifetime Activities (1/2)
Strength Training (1/2)	Men’s Health (1/2)	Team Sports (1/2)	Team Sports (1/2)
	Women’s Health (1/2)		
	Strength Training (1/2)		

Men’s Fitness 9 Required 1 Unit Credit
Women’s Fitness 9 Required 1 Unit Credit

Fitness introduces the student to a myriad of physical activities, sports, recreational activities and fitness activities. These are designed to build a foundation for a healthy, physically active lifestyle.

Women’s Health 10 Required 1/2 Unit Credit
Men’s Health 10 Required 1/2 Unit Credit

This course is designed to motivate students to want the fullness of life God has designed for us in our total person. It strives to give some tools to enable this to happen and prevent the death and misery associated with the main causes of death, disease and dysfunction in America in the 21st century. Health analyses many of the decisions that affect the total person from the mental, emotional, physical, social and spiritual aspects of our being. We see life on earth as inextricably woven into our relationship to our all-wise, almighty, sovereign, creator God and His plan for us as His own.

Girls Christian Decisions 10 Required 1/2 Unit Credit
Boys Christian Decisions 10 Required 1/2 Unit Credit

This course is designed to help students better understand their sexuality. The subject matter discussed is of a sensitive nature and important to the health and decision making process of young adulthood. All material discussed is taught in light of the beliefs and doctrines of the Lutheran Church – Missouri Synod. Various controversial topics may be discussed which are not options in the Christian faith. These issues are presented and discussed as a matter of information, clarification and understanding, and are not supported or condoned as actions to be taken or choices which should be made.

Team Sports 11-12 Elective 1/2 Unit Credit

This semester course is open to a maximum of 24 juniors and seniors who consider themselves willing and capable of competing in team sports with a highly competitive attitude and effort on a daily basis. Those students considering this course should already possess an excellent level of physical skills, will be expected to participate under Christian sportsmanship at all times, and will be expected to apply the knowledge and rules of each game as a participant and also as an official. The following activities are typically chosen: badminton, basketball, flag football, lacrosse, pickle-ball, soccer, softball, speedball, team handball, volleyball, or any other reasonably selected team sports. Prerequisite—Department Consent

Lifetime Activities 11-12 Elective 1/2 Unit Credit

This semester course is open to a maximum of 16 juniors and seniors. The students participating in this course will learn rules and strategies and physically participate in developing their skills in the following lifetime activities: archery, badminton, bowling, golf, pickle-ball and tennis. The students will be expected to supply their own clubs for golf, and racquet and balls for tennis. Prerequisite—Department Consent.

Strength Training 11-12 Elective 1/2 or 1 Unit Credit

The main objectives of this course are to learn and practice the proper techniques of strength training, gain strength, and know the musculature of the human body. Students may choose to take this course for one semester (1/2 unit credit) or all year, earning a maximum of 1 credit. Prerequisite—Department Consent

PRACTICAL ARTS / COMPUTERS

Course selection can be constructed in the following manner:

Freshmen	Sophomore	Junior	Senior
Computer Applications (1/2)	Computer Programming (1/2)	Computer Programming (1/2)	Computer Programming (1/2)
	Web Design (1/2)	Web Design (1/2)	Web Design (1/2)
	Advanced Web Design (1/2)	Advanced Web Design (1/2)	Advanced Web Design (1/2)
		Video Editing (1/2)	Video Editing (1/2)
Computer Applications (1/2)	Web Design (1/2)	Computer Programming (1/2)	Computer Programming (1/2)
AND	Advanced Web Design (1/2)	Web Design (1/2)	Web Design (1/2)
Computer Programming (1/2)	Video Editing (1/2)	Advanced Web Design (1/2)	Advanced Web Design (1/2)
		Video Editing (1/2)	Video Editing (1/2)

Computer Applications 9-12 Required 1/2 Unit Credit
 This course presents the student with the fundamentals of using popular productivity applications. Microsoft Office is used to teach the student how to do word processing (Microsoft Word), spreadsheets (Microsoft Excel), and presentations (Microsoft PowerPoint). While learning how to use Word, the student is also instructed in the touch-typing method. Using the Internet and World Wide Web for information retrieval is also part of the class. Note: In special circumstances, students may test complete a Computer Applications independent study for credit.

Web Design and Publishing 10-12 Elective 1/2 Unit Credit
 This course introduces the student to the world of coding web pages. Students begin with a detailed explanation of the inter-workings of the Internet and progress to HTML coding using CSS (Cascading Style Sheets). Students are able to view their work via the campus network and learn to design for different browsers on multiple platforms. Although not directly related to Introduction to Computer Programming, concepts learned in that course transfer to this practical application of computer programming. Prerequisite—Computer Programming and Department Consent

Advanced Web Design and Publishing 10-12 Elective 1/2 Unit Credit
 Extending upon knowledge learned in the first course, Advanced Web Design students will use their skills in real world situations. Students will learn about FTP (File Transfer Protocol) and publish to existing websites such as denverlhs.org and other current projects. Combining the areas of print design and computer/web programming, students will learn the finer points of designing eye-catching websites using table-less design and advanced CSS techniques. Other curricular objectives include advanced web technologies such as basic JavaScript and Flash animation. Prerequisite—Web Design and Publishing, Introduction to Computer Graphics, and Department Consent.

Introduction to Computer Programming 9-12 Elective 1/2 Unit Credit
 This course covers the fundamentals of computer programming and logical command sequence and is designed to develop students' abilities to critically solve problems. Based in C++, this course includes the basics of programming commands, functions, and data structures. Prerequisite—Computer Applications and Department Consent

Intro./Video Prod. & Editing 9-12 Elective 1/2 Unit Credit
 This class will teach students how to create and edit sound and video using various types of media.

SCIENCE

Course selection can be constructed in the following manner:

Freshmen	Sophomore	Junior	Senior
Physical Science (1)	Biology (1)	Chemistry (1)	Physics (1)
Biology (1)	Chemistry (1)	Physics (1)	Advanced Science (1)

Advanced Science 11-12 Elective/Honors 1 Unit Credit
 Advanced Science is a composite course that includes but is not limited to organic chemistry, biochemistry, marine biology, and mineralogy. The first semester aquatic biology portion includes an original team research project. Prerequisite—Biology, Chemistry, and Department Consent.

Biology 9-12 Elective 1 Unit Credit
 Biology I is a general survey course in the life sciences. Students will survey the following topics: organic chemistry, cellular structure, genetics, zoology, human anatomy, botany, ecology, and taxonomy. Scheduled lab activities include hands-on work with microscopes, dissection, selected animal topics, botany and genetics.

Chemistry 10-12 Elective 1 Unit Credit
 Chemistry is concerned with the structure of the atom and the ways in which atoms act on each other to produce chemical substances. The course deals with atomic structure, molecular structure and shape, physical state behaviors, and specifics such as acid-base behavior, oxidation-reduction, and the basics of organic chemistry. Prerequisite—Department Consent

Physical Science 9-12 Elective 1 Unit Credit
 Physical Science is designed to acquaint students with a wide variety of subjects, including meteorology, geology, physics, chemistry, astronomy, oceanography, mineralogy, aviation, aeronautics, engineering, and energy-related topics. Each of the mentioned areas is treated briefly during the year in order to expose students to as broad a spectrum as possible. Prerequisite—Biology I or Fundamentals of Biology and Department Consent

Physics 11-12 Elective 1 Unit Credit
 Physics explores relationships between matter and energy. Special topics include motion, mechanics, wave behaviors and electricity. Special emphasis is placed on problem solving. Light, sound and nuclear character are also described. Prerequisite—Biology and Department Consent

SOCIAL SCIENCE

Course selection can be constructed in the following manner:

Freshmen	Sophomore	Junior	Senior
World Geography (1/2)	World History (1)	US History (1) Psychology (1/2) Sociology (1/2) Modern World History (1/2)	Government (1/2) Psychology (1/2) Sociology (1/2) Modern World History (1/2)
World Geography (1/2)	US History (1)	World History (1) Government (1/2) Psychology (1/2) Sociology (1/2) Modern World History (1/2)	Government (1/2) Psychology (1/2) Sociology (1/2) Modern World History (1/2)

<u>World Geography</u>	9	Required	1/2 Unit Credit
Geography will give students a better understanding of the world around them through the five themes of geography: location, place, people-environment relations, movement and region. Through these five themes, students will gain an understanding of different cultures, governments, climates, and life around the world			
<u>World History</u>	10-12	Required	1 Unit Credit
World History will provide each student with the knowledge of the events that have taken place in our world from the Paleolithic age to the current happenings in the Middle East. This will be achieved through a variety of means, including lecture, discussion, video, cooperative learning and a variety of assessments.			
<u>United States History</u>	10-12	Required	1 Unit Credit
American History will provide each student with an accurate account and independent knowledge of our nation's rich past. This shall be accomplished via class lecture, discussion, reading, and cooperative interaction. Each student will be able to form and defend his or her opinion on the interpretation of significant events throughout the last two hundred years.			
<u>A.P. United States History</u>	11-12	Elective	1 Unit Credit
A.P. American History will provide each student with an accurate account and independent knowledge of our nation's rich past. This shall be accomplished via class lecture, discussion, reading, cooperative interaction, and essay writing analyses. Each student will be able to form and defend his or her opinion on the interpretation of significant events throughout the last two hundred years. By the end of second semester, the student will have the opportunity to take a test for possible college credit. Can replace United States History.			
<u>American Government</u>	11-12	Required	1/2 Unit Credit
American Government will provide each student with an overview of how varying forms of government work. It will also give in depth information on how our national government works. Later chapters discuss the basic set up of state and local governments. Information will be provided via class discussion, lecture, cooperative learning and various forms of assessment.			
<u>Psychology</u>	11-12	Elective	1/2 Unit Credit
The study of Psychology is essential in developing citizens who understand contemporary issue with a depth and wisdom drawn from the experiences of the past. Without reviewing our past history, a society shares no common memory of where it has been, of what its core values are, or of what decisions of the past account for present circumstances. This course enables the students to use the elements of psychology to accomplish those tasks.			
<u>Sociology</u>	11-12	Elective	1/2 Unit Credit
The study of Sociology is essential in developing citizens who understand contemporary issues with a depth and wisdom drawn from the experiences of the past. Without reviewing our past history, a society shares no common memory of where it has been, of what its core values are, or of what decisions of the past account for present circumstances. This course enables the students to use elements of sociology to accomplish those tasks.			

prior to the school year. OLO courses are of no extra cost to students, but do require the purchase of a textbook.

Online College Courses

11-12

Elective

1/2 or 1 Unit Credit

Lutheran High School partners with the University of Phoenix and Axia College to provide online college courses that advanced students may take for dual high school and college credit. One nine-week course counts as 1/2 high school credit and 1 college credit. Students must pay for these courses.