



Lutheran High School

ACADEMIC HANDBOOK 2020-2021

Course Descriptions Graduation Requirements

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GREATER IMPACT
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Lutheran High School – Academic Handbook 2020-2021

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 Commission on Accreditation and School Improvement (NCA CASI), the Colorado State Board of Education, and National Lutheran School Accreditation (NLSA). 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) credit per year. Half year courses will receive one-half (.5) credit.

GRADUATION REQUIREMENTS

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

English (Public Speaking required)	4.5 Credits	Fine Arts/Art/Music	1 Credit
Mathematics	3 Credits	Practical Arts/ Technology/Business	.5 Credit
Science	2 Credits	Physical Education/Health	1 Credit
Social Sciences (Government required)	3 Credits	Electives	9 Credits

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 or demonstrate that they are meeting their educational objectives and the school's requirements. A full 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. Seniors with a grade of A for the second semester may be exempt from the final, with a faculty member's discretion as to whether to give an exam regardless of final 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 60% (for a perfect assignment) for late work turned in one day late and no credit for work turned in more than one day late.
6. Students who fail two or more classes in a semester or fail one class and have a semester GPA below 1.5, 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 (administration may make an exception).

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 credits of summer school 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 credit
- B = 3 points per semester for each .5 credit
- C = 2 points per semester for each .5 credit
- D = 1 point per semester for each .5 credit
- F = 0 points per semester for each .5 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

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) credits 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.

5. Lutheran High School Graduation Requirements and College Admission Requirements

<u>Courses</u>	<u>Lutheran High School</u>	<u>Four-year Colorado Colleges and Universities</u>	<u>Princeton University</u>
English	4.5 Credits (Including Public Speaking)	4 Credits	4 Credits
Mathematics	3 Credits	4 Credits (Must include Algebra I, Geometry, Algebra II or equivalents)	4 Credits
Social Sciences	3 Credits	3 Credits (At least one credit of U.S. or World History)	2 Credits
Science	2 Credits	3 Credits (Two must be lab-based)	2 Credits
PE/Health	1 Credit	0 Credits	0 Credits
Fine Arts/Art/Music	1 Credit	0 Credit	"some"
Practical Arts/Technology/Business	.5 Credit	0 Credits	0 Credits
Theology	.5 Credit per semester of attendance	0 Credits	0 Credits
World Languages	0 Credits	1-3 Credits	4 Credits (same language)
Electives	9 Credits	2 Credits *	Varies
TOTAL	24 Credits + Theology	17-19 Credits	16+ Credits

*Acceptable academic electives include additional courses in English, mathematics, natural/physical sciences, social sciences, world languages, art, music, drama, computer science, honors, and Advanced Placement courses.

VALEDICTORIAN/SALUTATORIAN STATUS

When selecting school valedictorian(s) and salutatorian(s), "Valedictorian/Salutatorian Status" is used and not simply the final GPA and class rank. With the variety of courses available to students at Lutheran High School and through neighboring and online institutions, Lutheran High School recognizes GPA, strength of schedule, honors vs. non-honors classes, and final grades in 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 may visit the following website to review the academic requirements:

<http://www.ncaa.org/student-athletes/future/core-courses>.

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>.

SUMMARY OF COLLEGE ENTRANCE EXAMINATIONS

As students prepare for college, it is imperative that they prepare for at least one (or both) of the following college entrance exams:

- SAT (Reasoning Test): Scholastic Aptitude Test
- ACT: American College Testing Exam

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).

For more information, go to <http://www.act.org> and <http://www.sat.org>.

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 (sometimes Dual Credit) 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 overextend 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 Government

United States History

Calculus AB

Calculus BC

For more information, go to <http://www.collegeboard.org>

ART

Course selection can be constructed in the following manner:

Freshman	Sophomore	Junior	Senior
Intro to Art (.5)	Drawing/Painting I (.5)	Drawing/Painting I (.5)	Drawing/Painting I (.5)
Drawing/Painting I (.5)	Drawing/Painting II (.5)	Drawing/Painting II (.5)	Drawing/Painting II (.5)
Drawing/Painting II (.5)	Ceramics/3D Sculpture I (.5)	Ceramics/3D Sculpture I (.5)	Ceramics/3D Sculpture I (.5)
Ceramics/3D Sculpture I (.5)	Ceramics/3D Sculpture II (.5)	Ceramics/3D Sculpture II (.5)	Ceramics/3D Sculpture II (.5)
Ceramics/3D Sculpture II (.5)	Ceramics/3D Sculpture III (.5)	Ceramics/3D Sculpture III (.5)	Ceramics/3D Sculpture III (.5)
Crafts/Print-Making (.5)	Crafts/Print-Making (.5)	Crafts/Print-Making (.5)	Crafts/Print-Making (.5)
Video Production (.5)	Video Production (.5)	Video Production (.5)	Video Production (.5)
	Photography I (.5)	Photography I (.5)	Photography I (.5)
	Photography II (.5)	Photography II (.5)	Photography II (.5)
	Intro to Computer Graphics (.5)	Intro to Computer Graphics (.5)	Intro to Computer Graphics (.5)
	Advanced Computer Graphics (.5)	Advanced Computer Graphics (.5)	Advanced Computer Graphics (.5)

Intro to Art

9

Elective

.5 Credit

Intro to Art is a textbook-driven art survey course which is designed to help students appreciate historical and contemporary art and understand how it influences and reflects the world we live in. Students will also learn the elements that make up a work of art and the principles which loosely govern it. Students will be introduced to artists, artworks, and art media through the textbook, videos, reports, art projects, and required visits to various art exhibits, sculptures, and architecture in and around the Denver area.

Drawing / Painting I

9-12

Elective

.5 Credit

The first quarter of this introductory semester class is geared toward developing basic drawing skills using a variety of media and techniques. Learning to “see” is a major part of this traditional drawing class, as well as learning to use the elements of art to guide discussion and critique of artwork. The second quarter of the class will involve building on the newly acquired drawing skills with color. Students will learn techniques for painting with pastels, watercolors, and acrylics. Grading is based more on the quality of effort and attitude than on the quality of the end product.

Drawing / Painting II 9-12 Elective .5 Credit
In this more advanced class drawing will occupy the first quarter and painting the second. Assignments will be challenging and expectations high. Students will practice the elements of art and principles of design with assignments that invite creativity and self expression. Peer evaluations will enhance student's critiquing ability. Artistic risk taking will be rewarded, as discovery often comes through a process that includes both trial and error. Grading shifts toward quality of end product, with effort and attitude still vital.
Prerequisite: Drawing/Painting I

Ceramics / 3D Sculpture I 9-12 Elective .5 Credit
This is a semester class with an emphasis on functional hand-built ceramics first quarter and sculpture second quarter. For ceramics, students will work with clay, learning techniques for building basic shapes, firing clay, and glazing ceramics. Second quarter, students will learn important aspects of critiquing as well as creating visually and physically strong three-dimensional works from a variety of materials. Grading is based more on the quality of effort and attitude than on the quality of the end product.

Ceramics / 3D Sculpture II 9-12 Elective .5 Credit
This more advanced class will cover ceramics the first quarter and sculpting the second quarter. Assignments will be challenging and expectations high. In ceramics the student will be expected to achieve a better understanding of what is possible with functional clay forms and use their artistic ability to create beyond a simple clay structure. In Sculpture the student will sculpt realistic forms as well as a portrait head. A lot of time will also be spent sculpting in polymer clay.

Ceramics / 3D Sculpture III 10-12 Elective .5 Credit
Students are expected to be self-motivated and inquisitive about what can be accomplished with clay. In ceramics, the student will throw large bowls and cylinders. They will be taught how to make lids and handles. Students will also learn how to mix glazes from a powder form. In sculpture, the student will create animals and figures using different materials. They will learn about making molds and will make their own. They will sculpt a human face using a model and measurements. They will learn about the bronzing process in detail. If time permits, they will tour an art casting foundry in Loveland.

Crafts / Print-Making 9-12 Elective .5 Credit
First quarter of this semester class will focus on art processes which do not fall into specific categories. Students will experience a wide range of projects such as mask making, batik, mosaics, paper making, and book binding. Artistic craftsmanship will be encouraged and discussed within projects and critiques. Second quarter will be dedicated to the art of printmaking and give students a taste of many of its processes. They will learn basic hand printing techniques as well as how to use the printing press. Monoprints, collagraphs, and serigraphs are among the many techniques students will explore. Students will be evaluated on attitude, effort, and knowledge of the processes.

Video Production 9-12 Elective .5 Credit
This project-based course develops career and communication skills in digital video production. Students will learn storytelling, capturing and editing video and audio, and finalizing and publishing content to a variety of formats.

Photography I

10-12

Elective

.5 Credit

In this semester course students will learn basic and advanced photography and life skills. Students will evaluate what makes a photo “tell a story” and how to apply that to their own work through specific assignments. Students will learn workflow and editing with Lightroom and Photoshop. Peer evaluations and critiques will further their ability to verbalize what makes a great photograph. Students will be evaluated on the basis of effort, attitude, creativity and knowledge of the photographic process.

Photography II

10-12

Elective

.5 Credit

Photography II will be project based and student driven. Students must own or have access to a camera that is capable of interchanging lenses. Students Must have taken Photography I. Students will prepare idea boards and shot lists for projects and execute, edit and present work. Students will use natural and studio lights to create images as well as learn photography business basics. The class will contain field trips to professional studios and locations in town. Outside of class work is expected.

Introduction to Computer Graphics

10-12

Elective

.5 Credit

This semester class will provide a strong foundation for students interested in graphic design. Design principles as related to print and digital media provide the structure for learning to use graphic design software including Adobe Illustrator and Photoshop. Assignments are artistic in nature and include assemblage, tessellations, nameplate design, logo design, font design, and cover design. When possible, students will work with an actual client to further their understanding of the graphic design process. Students are evaluated on effort, attitude, knowledge, creativity, and are expected to challenge themselves in order to improve.

Advanced Computer Graphics

10-12

Elective

.5 Credit

Students will use their knowledge of the Adobe products, including Illustrator, Photoshop, and In Design among others, to produce graphic art, illustrations, and fine art. Students will also learn to design and print 3D products. Prerequisite: Intro to Computer Graphics

ENGLISH

Course selection can be constructed in the following manner:

Freshman	Sophomore	Junior	Senior
Intro to Literature (1)	World Literature (1)	American Literature (1)	British Literature (1)
Honors Intro to Literature (1)	Honors American Literature (1)	AP English Language & Composition (1)	AP English Literature & Composition (1)
	Public Speaking (.5)	Public Speaking (.5)	Public Speaking (.5)
		College Prep Writing (.5)	College Prep Writing (.5)

Intro to Literature 9 Required 1 Credit

This course is designed to be a survey course of many genres of literature and author types. Through this class students will have many opportunities to strengthen their grammar, spelling, reading, writing, speaking and listening skills. Special emphasis will be put on vocabulary and the writing process in both expository and creative forms.

Honors Intro to Literature 9 Elective 1 Credit

This is an accelerated course designed to be a survey course of many genres of literature and author types. Through this class students will have many opportunities to strengthen their grammar, vocabulary, reading, writing, speaking and listening skills. Special emphasis will be put on vocabulary and the writing process in both expository and creative forms. It will also require further analysis and critical thinking of a variety of works.

Prerequisite: Department Consent

World Literature 10 Required 1 Credit

This course is designed to enable students to become familiar with the mythologies of a variety of cultures thus understanding both the culture and the stories better. This course also provides a study of the earliest examples of literature in a variety of genres. Students will also hone their writing skills by augmenting their vocabulary and fine-tuning their grammar skills.

Honors American Literature 10 Elective 1 Credit

This is an accelerated course designed to enhance and expand on the students' familiarity with the elements and concepts of English and introduce an in-depth study of American Literature. The focus is on literature within the traditional, historic literary eras as viewed from a Christian perspective. This class will offer many opportunities to strengthen vocabulary, reading, writing, speaking and listening capabilities. The students will be challenged at a higher level of critical thinking and analysis of works.

Prerequisite: Department Consent

American Literature 11 Required 1 Credit
This course is designed to enhance and expand on the students' familiarity with the elements and concepts of English and introduce an in-depth study of American Literature. The focus is on literature within the traditional, historic literary eras as viewed from a Christian perspective. This class will offer many opportunities to strengthen vocabulary, reading, writing, speaking and listening capabilities.
Prerequisite: Intro to Literature

Advanced Placement Language & Composition 11 Elective 1 Credit
This A.P. English course provides accelerated, motivated juniors an opportunity to do college-level work. Students who wish to receive college credit may 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 or through the dual credit program with CCU. The course focuses on the essentials of language and writing skills, including patterns of organization and rhetorical devices. Most of the works studied in this course are non-fiction.
Prerequisite: Department Consent

British Literature 12 Required 1 Credit
British Literature is an in-depth study of the literature, themes and history of the English language (British dialects), for the purpose of identifying a common language origin, effectively communicating in that common language, and analyzing the timeless elements of human experience in literature. This class also offers opportunities to improve writing and presentation skills.
Prerequisite: American Literature

Advanced Placement Literature & Composition 12 Elective 1 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 or through the dual credit program with CCU. The course focuses on intensive reading of literature and an in-depth study of novels, plays, essays, short stories, and poetry which provides the core for writing assignments, projects, and discussions.
Prerequisite: Department Consent

Public Speaking 10-12 Required .5 Credit
One of the Lord's great gifts to us is that of speech. Therefore, the goal of this course is to help the student become a more competent and confident communicator. The ability to use clear communication is essential in our world today; therefore, one must be able to clearly communicate with an individual, as well as to a group.

College Prep Writing 11-12 Elective .5 Credit
In this course students will hone their skills in a variety of writing styles best suited to their future academic or career goals. Students will have the opportunity to pursue the skills necessary for their individual writing needs. These may include business writing, journalism, research, technical, and creative writing.

MATHEMATICS

Course selection can be constructed in the following manner:

Freshman	Sophomore	Junior	Senior
Algebra I (1)	Algebra I (1)	Algebra I (1)	Algebra I (1)
Geometry (1)	Geometry (1)	Geometry (1)	Geometry (1)
Honors Geometry (1)	Honors Geometry (1)	Honors Geometry (1)	Honors Geometry (1)
	Algebra II / Trigonometry (1)	Algebra II / Trigonometry (1)	Algebra II / Trigonometry (1)
		Honors Algebra II/ Trigonometry (1)	Honors Algebra II/ Trigonometry (1)
		Pre-Calculus (1)	Pre-Calculus (1)
		Honors Pre-Calculus (1)	Honors Pre-Calculus (1)
		Statistics (1)	AP Calculus AB (1)
			AP Calculus BC (1)
			Statistics (1)

Algebra I

9-12

Elective

1 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, radical expressions, and rational and irrational numbers.

Geometry

9-12

Elective

1 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

Honors Geometry

9-12

Elective

1 Credit

Honors Geometry is a course which studies the visualization of geometric objects and their properties in both two and three dimensions. The measurement of these geometric figures includes length, area, volume and angle measures. There is an emphasis on proofs, using deductive reasoning and critical thinking skills. Other topics that are explored include similarity, transformations and coordinate geometry. This course also provides students with extra ACT/SAT preparation.

Prerequisite: Algebra and Department Consent

Algebra II/Trigonometry 10-12 Elective 1 Credit
Algebra II/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, logarithms, and an introduction to probability. The course ends with the trigonometric ratios and functions.
Prerequisite: Geometry and Department Consent

Honors Algebra II/Trigonometry 11-12 Elective 1 Credit
Honors Algebra II/Trigonometry is designed to provide extra practice applying skills that will be necessary for AP Calculus. The course includes the study of linear equations and inequalities, expansion and factoring of polynomials, rational expressions, radicals and exponents, complex numbers, quadratic equations, functions, logarithms, probability, and sequences/series. Emphasis will be placed on advanced problem-solving techniques and manipulation of equations. The course ends with the trigonometric ratios and functions, as well as their graphs.
Prerequisite: Geometry or Hon. Geometry and Department Consent

Pre-Calculus 11-12 Elective/Honors 1 Credit
Pre-Calculus uses and applies material from a number of branches of mathematics previously studied and makes connections between them. The course prepares and sharpens students' Algebra and problem-solving skills for study in future college level courses including Calculus. The course includes an introduction to sequences and series, limits, and the derivative.
Prerequisite: Algebra II/Trigonometry or Hon. Algebra II/Trigonometry and Department Consent

Honors Pre-Calculus 11-12 Elective/Honors 1 Credit
Honors 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 AP Calculus AB and BC. The course includes an introduction to sequences and series, limits, and the derivative.
Prerequisite: Algebra II/Trigonometry or Hon. Algebra II/Trigonometry and Department Consent

Advanced Placement Calculus AB 12 Elective/Honors 1 Credit
AP Calculus AB is a college level mathematics course comparable to 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: Pre-Calculus and Department Consent

Advanced Placement Calculus BC 12 Elective/Honors 1 Credit
AP Calculus BC is a college level mathematics course comparable to first and second semester Calculus. Topics include limits, derivatives, integration, areas of regions with curved boundaries, solids of revolution, sequences and series, and parametric curves. 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 BC exam.
Prerequisite: Honors Pre-Calculus and Department Consent

Statistics

11-12

Elective

1 Credit

This year long course is divided into the two branches of Statistics. First semester focuses on Descriptive Statistics including the collection, organization, summarization and presentation of data. Second semester focuses on Inferential Statistics where we use samples and probability theories to predict, hypothesize, make connections and draw conclusions about data and the world around us. This course is built on the ideals that an elementary study of statistics is meaningful for developing into intelligent consumers, helpful in identifying a future career in the field of statistics, and instrumental in succeeding in a college level statistics course.

Prerequisite: Algebra 1, Geometry, and Department Consent

PERFORMING ARTS

Course selection can be constructed in the following manner:

Freshman	Sophomore	Junior	Senior
Wind Ensemble (1)	Wind Ensemble (1)	Wind Ensemble (1)	Wind Ensemble (1)
Men's Choir (1)	Men's Choir (1)	Men's Choir (1)	Men's Choir (1)
Bel Canto (Women's Choir) (1)			
Theatre I (.5)	Jubilate (1)	Jubilate (1)	Jubilate (1)
Theatre II (.5)	Theatre I (.5)	Music Theory (1)	Music Theory (1)
	Theatre II (.5)	Theatre I (.5)	Theatre I (.5)
		Theatre II (.5)	Theatre II (.5)

Wind Ensemble

9-12

Elective

1 Credit

Ensemble playing presents the unique opportunity to build community and create connections between the audience and performers without using words. Wind Ensemble is place where students can develop their technical, lyrical, and expressive skills in the context of Christian vocation.

Men's Choir

9-12

Elective

1 Credit

Music is a gift from God and singing is one way that everyone can praise our Lord and Savior. Men's Choir is a class for any male who loves to sing. There is no audition or experience necessary to be a part of this group. Men's Choir teaches the basics of singing and music theory, helps students develop their voice as they go through voice changes, and focuses on building an appreciation of God's gift of music.

Bel Canto (Women's Choir)

9-12

Elective

1 Credit

Music is a gift from God and singing is one way that everyone can praise our Lord and Savior. Bel Canto is a class for any female who loves to sing. There is no audition or experience necessary to be a part of this group. Bel Canto teaches the basics of singing and music theory, helps students develop their voice as they go through voice changes, and focuses on building an appreciation of God's gift of music.

Jubilate

10-12

Elective

1 Credit

Music is a gift from God and singing is one way that everyone can praise our Lord and Savior. The Jubilate Choir is the top singing ensemble at Lutheran High School. Students are admitted to the class by audition only and participate in a variety of performances throughout the year. Jubilate is a choir for the serious musician that wants to refine their skills and be a part of a high achieving ensemble. The course has a greater focus on performance and repertoire and is open to students in grades 10-12.

Music Theory

11-12

Elective

1 Credit

Music Theory provides an introduction to the basics of music notation, intervals, chords, scales and texture. Students learn not only how to notate music but also how to analyze and compose music. Traditional four-part voice leading principles guide the process as students learn more of the components of chord structure that make for interesting and engaging compositions. The course also teaches aural and dictation skills.

Theatre I

9-12

Elective

.5 Credit

Theatre I is an introductory course to the world of theatre and performance. It incorporates the origins and history of theatre, focusing on Greek, Shakespeare and Contemporary. This course requires reading, researching, analyzing and evaluating various plays. Students will learn and utilize basic acting techniques, movement, vocalization and character development from different periods and styles focusing on creative expression through theatrical performance. Group and/or solo performances will be mandatory in this course. Play critiques from outside performances will be required.

Theatre II

9-12

Elective

.5 Credit

Theatre II is a continuation of the Theatre I course. It will expand upon the research, analysis, acting, and vocal techniques learned in Theatre I. Reading and researching will be required as students focus on script and character analysis from various theatrical texts. Students will strengthen their performance skills through advanced movement, vocal, and acting techniques. Lighting, sound, and stage design will be incorporated into this course to enrich the students' understanding of how scenic elements enhance a performance. Group and/or solo performances will be mandatory in this course. Play critiques from outside performances will be required.

PHYSICAL EDUCATION/HEALTH

Course selection can be constructed in the following manner:

Freshman	Sophomore	Junior	Senior
Women's Health (.5)	Women's Christian Decisions (.5)	Team Strength (.5)	Team Strength (.5)
Men's Health (.5)	Men's Christian Decisions (.5)		
Team Strength (.5)	Team Strength (.5)		

Note: Students may take multiple semesters of Team Strength

Women's Health 9 Required .5 Credit

Men's Health 9 Required .5 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 analyzes 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.

Women's Christian Decisions 10 Required .5 Credit

Men's Christian Decisions 10 Required .5 Credit

This course is designed to help students better understand their responsibilities as men and women of God. 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.

Team Strength 9-12 Elective .5 or 1 Credit

Team Strength is a course intended to assist the athlete in making valuable gains in strength, power, speed, agility, and aerobic conditioning. The main goal of the class is to help each individual athlete be the best prepared for their respective sport, whether in season or out of season. On top of athletic improvements, the class also emphasizes the promotion of team chemistry and athletes can grow both metaphorically and physically with their teammates. We offer this class to any and every athlete that is involved in a club or school sanctioned sport. We provide the class during the day, so that the athletes do not have to wait around after school and miss out on valuable homework time and family time.

PRACTICAL ARTS / TECHNOLOGY / BUSINESS

Course selection can be constructed in the following manner:

Freshman	Sophomore	Junior	Senior
Web Design (.5)	Web Design (.5)	Web Design (.5)	Web Design (.5)
Computer Science & Programming (.5)			
	Advanced Computer Programming (.5)	Advanced Computer Programming (.5)	Advanced Computer Programming (.5)
	Computer Networking & Hardware (.5)	Computer Networking & Hardware (.5)	Computer Networking & Hardware (.5)
	Personal Finance (.5)	Student Aid in Technology (.5)	Student Aid in Technology (.5)
	School Store (.5)	Personal Finance (.5)	Personal Finance (.5)
		Leadership (.5)	Leadership (.5)
		Business Studies (.5)	Business Studies (.5)
		Advanced Business Studies (.5)	Advanced Business Studies (.5)
		Accounting I (.5)	Accounting I (.5)
		Accounting II (.5)	Accounting II (.5)
		Sales & Marketing (.5)	Sales & Marketing (.5)
		School Store (.5)	School Store (.5)

Technology

Web Design

9-12

Elective

.5 Credit

This course will introduce you to the fundamental concepts of design, creation, and maintenance of web pages and websites. Students will be introduced to web design standards and learn how to critically evaluate website quality. The course progresses from introductory work on web design to a project in which students design and develop a personal website.

Computer Science & Programming

9-12

Elective

.5 Credit

This class serves as an introduction to the fundamental concepts of computer programming and computational thinking. It is not uncommon for students who have a passion for computers and want to program to be unfamiliar with the problem-solving skills required for programming work. Coursework will include progressive JavaScript coding exercises.

Advanced Computer Programming 10-12 Elective .5 Credit
This course is designed to teach students to code fluently in an object-oriented paradigm using the programming language Java. The course utilizes a blended classroom approach. The content is fully web-based, with students writing and running code in the browser. Lessons consist of video tutorials, short quizzes, example programs to explore, and written programming exercises.
Prerequisite: Computer Science & Programming

Computer Networking & Hardware 10-12 Elective .5 Credit
Students will be introduced to computer hardware, operating systems, and networking solutions. This course will provide practical knowledge of the physical components that make up a personal computer and how devices communicate across networks. It is on the other end of the continuum from programming (and may not seem as glamorous), but the ability to understand and troubleshoot PC hardware and networks represents a critical skill set in the workforce. Just ask anyone trying to access Wi-Fi!

Student Aid in Technology 11-12 Elective .5 Credit
This independent study course will be available for students who have taken Computer Networking & Hardware. Participants will have the opportunity to work closely with our Director of Technology in maintaining our IT environment at Lutheran High School.

Business

Personal Finance 10-12 Elective .5 Credit
Personal Finance gives students an overview of the skills necessary for wisely managing their finances as young adults. The goal of this class is to prepare students to live within their financial means and to be good stewards of God's gifts, approaching finances as an area God can use to refine our character and grow our trust in Him as the ultimate Provider. Students will explore how to: develop a budget, avoid debt, build an emergency fund, invest for the future, file taxes, make responsible spending decisions, and give generously.

Leadership 11-12 Elective .5 Credit
The goal of Lutheran High School's Leadership class is to challenge students to think differently than the way society thinks and to not conform to being average. This leadership class will be Christian based with Jesus Christ as our model for true leadership. In this class students will engage daily with the whole of the class and they will have many opportunities to stand and deliver information to their classmates. Students will learn through their participation in class exercises, reading books, engaging with guest speakers, watching movies, taking notes during lectures, and participating in a leadership presentation to their classmates. In addition to students challenging their way of thinking, students will also learn hands on leadership skills like interviews, performance reviews, and public speaking. By the end of the semester, students will have been challenged to understand how they view themselves, how they view their impact on others, and how they can truly be significant in the lives of others. Whether students are required to take this elective as a result of their involvement in one of Lutheran High School's Academy's or whether they just want to grow in their influence of others, students will not leave this class unchanged.

Business Studies 11-12 Elective .5 Credit
Business Studies takes students on a tour of the basics of business. Students will learn how they can serve the business world, manage people well, evaluate business decisions, analyze markets, design their own business model, and more! This course covers topics including: business communication, management, business ethics, professionalism, entrepreneurship, and business analysis.

Advanced Business Studies 11-12 Elective .5 Credit

Accounting I 11-12 Elective .5 Credit
This course provides an introduction to “the language of business”. Students will explore careers in accounting, the basics of accounting for a sole proprietorship and merchandising company, and payroll. Topics covered include: bookkeeping, the accounting cycle, financial statements, payroll, and ethics in accounting.

Accounting II 11-12 Elective .5 Credit
This course builds on content learned in Accounting I. From this foundation, students will explore topics including: managerial accounting, special journals, assets and depreciation, inventories, and accounting for corporations. This course is for students who are interested in taking a deeper dive into the world of accounting.

Sales & Marketing 11-12 Elective .5 Credit
Sales & Marketing is an introduction to the vast world of marketing. Students will explore the basics of business and sales and delve into the “Four Ps” of marketing: product, place, promotion, and price. Topics include: personal sales, target markets, market analysis, advertising, logo and package design, SEO, and more.

School Store 10-12 Elective .5 Credit
The purpose of this course is to give motivated, responsible students practical experience managing and maintaining the school store during operating hours. Student workers will play an important role in maximizing critical revenue streams for Lutheran Athletics. This is an exceptional opportunity to gain valuable experience in sales, management, customer service, and inventory management.

SCIENCE

Course selection can be constructed in the following manner:

Freshman	Sophomore	Junior	Senior
Earth & Space (.5)	Microbiology (.5)	General Chemistry (.5)	Mineralogy (.5)
Environmental (.5)	Honors Microbiology (.5)	Honors General Chemistry (.5)	Anatomy & Physiology I (.5)
Microbiology (.5)	Macrobiology (.5)	Inorganic Chemistry (.5)	CNA (.5)
Honors Microbiology (.5)	Honors Macrobiology (.5)	Honors Inorganic Chemistry (.5)	Electricity & Waves (.5)
Macrobiology (.5)	General Chemistry (.5)	Mineralogy (.5)	Mechanics (.5)
Honors Macrobiology (.5)	Honors General Chemistry (.5)	Anatomy & Physiology I (.5)	Organic Chemistry (.5)
	Inorganic Chemistry (.5)	CNA (.5)	Astrophysics (.5)
	Honors Inorganic Chemistry (.5)	Electricity & Waves (.5)	Pre-Engineering (.5)
	Mineralogy (.5)	Mechanics (.5)	
		Organic Chemistry (.5)	

Earth & Space

9

Elective

.5 Credit

This course is an exploration of Earth's physical geology, and its place in the cosmic landscape. Topics of study includes an emphasis of Earth's privileged location in the vastness of space, the contents of the universe, and the forces that govern the motions of the Earth. This course also finishes with an in-depth discussion of the worldview surrounding the origin of earth and the truths found in the Creation account.

Environmental

9

Elective

.5 Credit

An exploration of Earth's ongoing natural processes. The Earth's weather and energy systems are dynamic features of our planet that undergo changes (seasons and eras) from internal causes and man-made influences on the ecosystem. This course is designed with a unique self-paced Project-Based Learning model that will have student working in collaborative groups to achieve a long-term goal. This course also investigates major current events in the environment and our responsibility to be good stewards of this world that God has given us to govern.

Microbiology

9-10

Elective

.5 Credit

God created a wonderful and spectacular world in which to live. The study of biology allows us to not only learn about life in that created world but also to learn more about the attributes of our Creator. The course is an introduction to the structure and functions of cells with an emphasis on the correlation between structure and function at the molecular level. Theories of evolution will be explored from a Biblical perspective to determine how the theories hold up against Biblical Truths. Students in this class will begin to appreciate and understand the living environment around them as they work with various concepts, principles, and theories.

Honors Microbiology

9-10

Elective

.5 Credit

Biology is the study of life, which was created by God. It is in the studying of that life that we can learn more about the Creator and the detail in which life is created. The course is an introduction to the structure and functions of cells with an emphasis on the correlation between structure and function at the molecular level. Theories of evolution will be explored from a Biblical perspective to determine how the theories hold up against Biblical Truths. Students will create an interactive notebook throughout the class that will act as a toolbox of what they have learned, as well as a body of evidence showing the desire to learn, self-assess, and grow. Students will be challenged to explore the subject matter through project-based learning, investigation through questioning, and group collaboration. Students will also explore and discuss issues of bioethics developing a personal philosophy of life.

Macrobiology

9-10

Elective

.5 Credit

God created a wonderful and spectacular world in which to live. The study of biology allows us to not only learn about life in that created world but also to learn more about the attributes of our Creator. The course is an introduction to plants and animals, as well as ecology. The structure, taxonomy, processes of life, and relationships of both vertebrates and invertebrates will be studied. Basic concepts of plant life through a study of the structure, functional form, reproduction and ecology of selected plant groups from the plant kingdom. The theory of evolution will be explored and evaluated in how it explains origins and natural selection. Students in this class will begin to appreciate and understand the living environment around them as they work with various concepts, principles, and theories.

Prerequisite: Microbiology

Honors Macrobiology

9-10

Elective

.5 Credit

Biology is the study of life, which was created by God. It is in the studying of that life that we can learn more about the Creator and the detail in which life is created. The course is an introduction to plants and animals, as well as ecology. The structure, taxonomy, processes of life, and relationships of both vertebrates and invertebrates will be studied. Basic concepts of plant life through a study of the structure, functional form, reproduction and ecology of selected plant groups from the plant kingdom. Laboratory activities will be focused on animals in each of the phyla. Students will create an interactive notebook throughout the class that will act as a toolbox of what they have learned, as well as a body of evidence showing the desire to learn, self-assess, and grow. Students will be challenged to explore the subject matter through project-based learning, investigation through questioning, and group collaboration. Students will also explore and discuss issues of bioethics developing a personal philosophy of life.

Prerequisite: Honors Microbiology

General Chemistry

10-11

Elective

.5 Credit

An introduction to the concepts of chemistry, the periodic table of elements, compound formation, and atomic structure. Students will learn basic chemistry laboratory procedures as they perform labs throughout each unit. Through class discussion, laboratory experiments, and Lecture, students will cover topics such as the scientific method, states of matter, thermal energy, the makeup of the atom, and how metallic and nonmetallic elements bond. The worldview through which this class is taught is rooted in the understanding that God is the Creator of the universe, and his design and empirical nature can be explored through Chemistry. The relative simplicity and yet immense complexity of the atom is understood through our wonderful designer, God the Father.

Honors General Chemistry 10-11 Elective .5 Credit
An introduction to the concepts of chemistry, the periodic table of elements, compound formation, and atomic structure. Students will learn basic chemistry laboratory procedures as they perform labs throughout each unit. Students taking this course are expected to have a strong interest in either Chemistry or science in general. An emphasis will be placed on career application when possible. Topics covered in this course include an in-depth study of atomic structure, the phenomena behind the electron, the relationship between matter and energy, and how metallic and nonmetallic elements bond. The worldview through which this class is taught is rooted in the understanding that God is the Creator of the universe, and his design and empirical nature can be explored through Chemistry. The relative simplicity and yet immense complexity of the atom is understood through our wonderful designer, God the Father.

Inorganic Chemistry 10-11 Elective .5 Credit
Inorganic Chemistry is a study of inorganic chemistry principles through experiments, lectures, and discussion. Stoichiometry, gas laws, solution formation, theories of acids and bases, and oxidation potentials are all covered. While the mathematical application will be explored, the conceptual will also be covered. The worldview through which this class is taught is rooted in the understanding that God is the Creator of the universe, and his design and empirical nature can be explored through Chemistry. The relative simplicity and yet immense complexity of the atom is understood through our wonderful designer, God the Father.
Prerequisite: General Chemistry

Honors Inorganic Chemistry 10-11 Elective .5 Credit
Honors Inorganic Chemistry is a study of inorganic chemistry principles through experiments, lectures, and discussion. Stoichiometry, gas laws, solution formation, theories of acids and bases, oxidation potentials, and electrochemistry are all covered. A special emphasis will be placed on the mathematical and logical exploration of these topics. Students are expected to have a strong interest in the topics and pursuing to learn more about chemistry, engineering, medicine, or other related careers. The worldview through which this class is taught is rooted in the understanding that God is the Creator of the universe, and his design and empirical nature can be explored through Chemistry. The relative simplicity and yet immense complexity of the atom is understood through our wonderful designer, God the Father.
Prerequisite: Honors General Chemistry

Mineralogy 10-12 Elective .5 Credit
An in-depth study of Earth's geology and minerals. The course will begin with a study of minerals at the atomic level, then a study of igneous, sedimentary, and metamorphic rocks including their formation. A special focus will be given to Colorado's geology, including rock formation and mineral identification. The laboratory will primarily be hands on activities with rocks and minerals from Lutheran High's own collection, as well as student's building up their own collection. Students will begin with an overview of the makeup of the earth's crust as well as the chemistry behind inorganic minerals. Students will continue their exploration by looking at chemical makeup, crystal structure, and processes involved in mineral formation. The worldview through which this class is taught is rooted in the understanding that God is the Creator of the universe, and his design and empirical nature can be explored through Mineralogy. Through this class, students will see an ordered universe by exploring the precision of crystalline solids.
Prerequisite: General Chemistry

Anatomy and Physiology I 11-12 Elective .5 Credit
Anatomy and physiology of the human body is the study of the systems that make up the body, which God created, and how the systems function to make life possible. It is an opportunity to learn more about the intricacies and details in which God created us with. This course will include an introduction to the microscopic and gross anatomy of the human body, a survey of each body system, and how they work together in the human body.

Prerequisite: Macro-biology

Certified Nursing Assistant (CNA) 11-12 Elective .5 Credit
This course presents basic knowledge and procedures necessary to perform nurse aide skills as defined by the Colorado State Board of Nursing. Some of the skills include assisting with activity and movement safety, personal care and hygiene, nutrition, and obtaining vital signs. This course also provides students the opportunity to obtain their lab and clinical experience hours required for the Colorado State Board of Nursing. Students have the opportunity to complete the required testing to be state certified as part of their final exam.

Electricity & Waves (weighted) 11-12 Elective .5 Credit
This course will be a study of the concepts and theories behind waves and particles. Waves as a source of energy transfer, sound properties, the physics behind music, light interactions with matter, colors, reflection with various mirrors, and refraction with various lenses will all be discussed. There will also be a focus on the mathematical relationships among electric fields, electrostatics, basic circuits, voltage, current, power, resistance, and magnetics. There will be a major build project included.

Prerequisite: Mechanics

Mechanics (weighted) 11-12 Elective .5 Credit
This course is a math intensive, algebra and trigonometry based, study of Newtonian physics. Topics covered will include kinematics, forces, projectile motion, universal gravitation, momentum, work, power, and energy. This is a lab intensive course.

Organic Chemistry (weighted) 11-12 Elective .5 Credit
This course will be an overview of the basic principles covered in a college level organic chemistry class. Topics covered will include molecular structures, bonding, IUPAC naming, functional groups, reaction mechanisms, and synthesis of organic molecules.

Prerequisite: Inorganic Chemistry

Astrophysics (weighted) 12 Elective .5 Credit
Astrophysics deals with the historical progression of astronomy and application of physics principles to stellar motion. Topics of study will provide a in-depth analysis of the gravitational, nuclear, and electromagnetic forces that cause the motions of stellar objects. This course will contain a debate formatted discussion of the major theories of astronomical origin including Young and Old Earth Creationist theories according to Genesis 1 and the Big Bang Theory. This course will conclude with a look forward at man's endeavors to reach other worlds and stars, namely the physics of space travel and the social, economical, and philosophical factors to consider.

Prerequisite: Electricity and Waves

Pre-Engineering (weighted) 12 Elective .5 Credit
This is a project-based course. Problem solving strategies and design are the main foci. Various apparatuses will be designed, executed, and presented by students that illustrate principles previously learned. Students will also learn about a variety of engineering fields from professionals in the field. Prerequisite: Electricity and Waves

SOCIAL SCIENCES

Course selection can be constructed in the following manner:

Freshman	Sophomore	Junior	Senior
World Geography (.5)	World History (1)	World History (1)	World History (1)
	Honors World History (1)	Honors World History (1)	Honors World History (1)
		US History (1)	US History (1)
		AP US History (1)	AP US History (1)
		US Government (.5)	US Government (.5)
		AP US Government (.5)	AP US Government (.5)
		Modern World History (.5)	Modern World History (.5)
			Psychology (.5)

World Geography 9 Required .5 Credit
 Geography will focus on studying the world's people, cultures, environment, and regions. This will be studied through classroom academics with a variety of assessments, direct experience, and in depth use of technology. Giving students a better general understanding of the world around them is a practical and beneficial skill for their future academic interests and career.

World History 10-12 Required 1 Credit
 World History will provide each student with the knowledge of the events that have taken place in our world from the ancient civilizations to the modern era. This will be achieved through a variety of means, including lecture, discussion, video, cooperative learning and variety of assessment. A general goal is for students to gain an overview of world development while understanding its effect on the world today.

Honors World History 10-12 Elective 1 Credit
 Honors World History is designed to provide students with the knowledge and critical thinking and writing skills that will assist their understanding of the development of global processes through the study of interaction among different societies (5000 B.C. to present). The five unifying themes threaded throughout the curriculum are: Interaction between humans and environment; Development and interaction of cultures; State-building, expansion, and conflict; Creation, expansion, and interaction of economic systems; and Development and transformation of social structures. Writing and reading are large components of this course. This class will prepare the student for Advanced Placement United States History. Can replace World History.

US History 11-12 Required 1 Credit
 United States History is designed to provide the student with in-depth learning of our nation's history starting with the Colonial era through the Modern era. Focuses will include critical writing and thinking skills, such as how to inference, synthesize, analyze and evaluate primary and secondary resources. A variety of formative and summative assessments will be used, including tests, quizzes, projects, essays, and debates.

AP US History 11-12 Elective 1 Credit
AP United States 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. The nine historical thinking skills and seven themes will be covered throughout each unit. Students who wish to receive college credit will take the Advanced Placement United States History Examination given nationally each May. Students can earn college credit with a successful score on the AP exam or through the dual credit program with CCU. Can replace United States History.

US Government 11-12 Required .5 Credit
American Government is a survey of the U.S. government structure, systems and political processes. Content will include factors that influence U.S. government at the national, state, and local levels. This course prepares students to become responsible/aware members of American society, to think critically about political issues, and to express informed opinions about questions of government through a variety of different formats.

AP US Government 11-12 Elective .5 Credit
AP Government is designed to give students an analytical perspective on government and politics within the United States. Specifically, this course will focus on the Constitution; political beliefs and behaviors; political parties, interest groups, and mass media; the Congress, presidency, bureaucracy, and the federal courts; public policy; and civil rights and liberties. The course will require students to master historical and analytical skills, including; chronological and spatial thinking, historical research and interpretation. Students will evaluate viewpoints presented through major print and electronic media, understand statistical data and analyze trends related to specific political events.

Modern World History 11-12 Elective .5 Credit
This class will journey through the 1950's to present. Modern World History will mainly consist of projects and homework. The class will be broken down into units by decades. Each event will be thoroughly analyzed, while studying the effects and consequences it had on the world past and present. Writing and reading are important components of this course. The approach to this course includes, but is not limited to, the following elements: development of substantial knowledge of social, cultural, political, economic and military events relevant to history of the United States and the development of assessment and interpretive skills. A textbook will not be used for this class.

Psychology 12 Elective .5 Credit
Psychology is the science and profession concerned with the behavior of humans and animals. This course will look at the content and terminology of the discipline. A course in general psychology gives the students the opportunity to develop methods of learning and study; to prepare for parenthood, family life, and careers; and to learn about the range of services provided by psychologists. Through the use of class notes, current media, case studies and class discussion, the student will explore the theories and assertions that are open to question in the light of new information.

THEOLOGY

Course selection can be constructed in the following manner:

Freshman	Sophomore	Junior	Senior
Theology I: Old Testament Survey (1)	Theology II: New Testament Survey (1)	Theology III: Apologetics & World Religions (1) Worship (1)	Theology IV: Worldviews & Christian Living (1) Worship (1)

Note: Theology is required for each semester in attendance at LHS.

Theology I: Old Testament Survey 9 Required 1 Credit

Theology I is a comprehensive study of the Old Testament including the study of the book of Genesis, the Exodus, the time of the Judges, the time of the Kings and the Exile and return of the Israelites. The primary emphasis is to guide students into a deeper and richer knowledge and understanding of the history of the Bible, so that students may experience a vibrant relationship with our Lord. Further, students will have opportunity to develop an understanding and implement the practice of holding a Biblical worldview.

Theology II: New Testament Survey 10 Required 1 Credit

Theology II is a comprehensive study of the New Testament including a study of the life and teachings of Christ according to the book of Matthew, the book of Acts and early church history and a summary of the Epistles. The primary emphasis is to guide students into a deeper and richer knowledge and understanding of the life and work of Jesus Christ, so that students may experience a vibrant relationship with Him as their personal Lord and Savior.

Theology III: Apologetics & World Religions 11 Required 1 Credit

Theology III enables students to have an understanding of key teachings of the Christian faith, give intelligent, factual answers to common objections to the Christian faith, and understand key teachings of major religions and cults in order to know how to best witness to them.

Theology IV: Worldviews & Christian Living 12 Required 1 Credit

Theology IV attempts to give the students the tools needed to defend and nurture their faith, all while letting the Holy Spirit work to strengthen the current faith that has been created or is being created in their life. The course covers difficult questions about Christianity, ethics, marriage, family, other timely topics and is geared towards preparing students for the next stage of their life and the changes that present themselves in the coming years.

Worship – Application Process 11-12 Elective 1 Credit

The purpose of this course is to develop Christian leaders within the student body through the responsibility of developing and presenting student-led chapels on a weekly basis. The course also serves as an opportunity to teach students spiritual disciplines that they can use for a lifetime.

WORLD LANGUAGES

Course selection can be constructed in the following manner:

Freshman	Sophomore	Junior	Senior
Spanish I (1)	Spanish I (1)	Spanish I (1)	Spanish I (1)
Spanish II (1)	Spanish II (1)	Spanish II (1)	Spanish II (1)
Mandarin I (1)	Spanish III (1)	Spanish III (1)	Spanish III (1)
Mandarin II (1)	Mandarin I (1)	Spanish IV (1)	Spanish IV (1)
	Mandarin II (1)	Mandarin I (1)	Spanish V (1)
	Mandarin III (1)	Mandarin II (1)	Mandarin I (1)
		Mandarin III (1)	Mandarin II (1)
		Mandarin IV (1)	Mandarin III (1)
			Mandarin IV (1)
			Mandarin V (1)

Spanish I

9-12

Elective

1 Credit

Spanish I is an introductory course to the Spanish language. It is taught with the assumption that students have no to little Spanish experience. Using the "comprehensible input" method, emphasis is placed on natural language acquisition through a communicative approach (as opposed to a grammar-based mathematical approach). Students will finish their first year of Spanish with competent understanding of many high frequency Spanish words of all parts of speech as well as some lower frequency words.

Spanish II

9-12

Elective

1 Credit

Spanish II is a continuation of Spanish I. It is taught with the assumption that students have one year of Spanish experience and a competency with the highest frequency Spanish words and ideas. Using the "comprehensible input" method, emphasis is placed on natural language acquisition through a communicative approach as well as topical emphasis on culture and current events in the greater Spanish-speaking world. Students will finish their second year of Spanish with a familiarity and competence around high frequency words of all parts of speech as well as advanced communication skills. Grammatical material in Spanish II includes conjugations of all subjects and more exposure and use of past tenses.

Prerequisite: Spanish I and Department Consent

Spanish III

10-12

Elective

1 Credit

Spanish III is a continuation of Spanish II. It is taught with the assumption that students have two years of Spanish experience and a competency with high and low frequency Spanish words and grammatical and communicative concepts. Using the "comprehensible input" method, emphasis is placed on natural language acquisition through a communicative approach as well as topical emphasis on culture and current events in the greater Spanish-speaking world. Grammatical material in Spanish III includes conjugations of all subjects with present, past, future, present perfects, conditional, and present subjunctive.

Prerequisite: Spanish II and Department Consent

Spanish IV (weighted) 11-12 Elective 1 Credit
Students in the fourth year of Spanish will be assumed to have a good understanding and relative fluency in the language. While still using the methodology of comprehensible input, there will be more time in Spanish IV that is dedicated to specific grammatical concepts; both simple and complex. In that regard it will more resemble a college level course and prepare students who plan to continue in linguistic pursuits of any kind. Grammatical material will include a mastery of all previous tenses, as well as some more complex ones like conditional, the subjunctive, and all the perfect tenses. This is not an AP class.
Prerequisite: Spanish III and Department Consent

Spanish V (weighted) 12 Elective 1 Credit
Students in the fifth year of Spanish are assumed to have a high level of interest and ability to communicate in the language. This course continues to be dedicated to simple and complex grammatical concepts as well as the culture and history of the Spanish speaking world. Reading, writing, listening, speaking, translating, and interpreting are all important components. Student choice will be emphasized, especially related projects.
Prerequisite: Spanish IV and Department Consent

Mandarin I (Chinese) 9-12 Elective 1 Credit
Mandarin I is an introductory course to the Chinese language. Emphasis will be placed on pronunciation, conversation skills, and oral communication skills. Through comprehensible input, students will become familiar with basic conversation skills in both past and present tense, as well gain familiarity with basic orthographic elements of the language.

Mandarin II (Chinese) 9-12 Elective 1 Credit
Mandarin II is designed to increase a student's comfort level, character recognition, and linguistic proficiency with the Chinese language. The fundamental skills of listening, speaking, reading, and writing will be further developed. The course focus will be balanced between communicative content and the structure and form of the language. Students are expected to be active participants in language acquisition.
Prerequisite: Mandarin I and Department Consent

Mandarin III (Chinese) 10-12 Elective 1 Credit
Mandarin III is a continuation of course work accomplished in Mandarin II. Students will use the target language in class for communication, reading, writing, translating, and presentation. Besides continuous learning of the target language, the rich Chinese culture and history will be introduced and explored.
Prerequisite: Mandarin II and Department Consent

Mandarin IV (Chinese) (weighted) 11-12 Elective 1 Credit
Mandarin IV is designed to enable students to consolidate and expand conversational usage and grammatical and cultural knowledge encountered in prior courses in the sequence. This course will continue to improve students' reading, listening, speaking and writing abilities. Combined with introducing Chinese culture and history and by using lots of hands-on activities and games, this course will continue to bring students lots of fun.
Prerequisite: Mandarin III and Department Consent

Mandarin V (Chinese) (weighted) 12 Elective 1 Credit

MULTI-DISCIPLINARY

Access 9-12 Elective 1 Credit

Academic Success (Access) is a class for students with learning differences/disabilities who have an academic support plan and require additional support in achieving academic success. Access follows a study hall format but focuses on supporting students in the following areas: understanding and completing assignments, reviewing classroom concepts, keeping track of assignment due dates and test dates, awareness of grades, study skills, organization skills, time management skills, and self-advocacy skills. The Access teacher assists students and teachers in incorporating accommodations in the regular classroom setting.

Access Assistant 11-12 Elective .5 Credit

Students who have excelled in their studies (particularly math) will serve as peer tutors in the Access classroom to encourage, assist, and work closely with fellow students.

Capstone Project 12 Elective .5 Credit

Students in Business Academy, Mission & Ministry Academy, Music Academy, and STEM Academy will take an additional .5 credit for their Capstone Project (C4), which must include evidence of their Collaborative Community Experience (C2). Since both Lights Academy and Art Academy are considerably more self-contained and are each their own fulfillment of coursework (C1), this independent study recognizes the additional work required outside of class for these academy students. Students will work closely with the director for their specific academy.

Driver's Education (A+ Driving) 9-12 Elective .5 Credit

Lutheran High School offers the unique opportunity for students to complete driving education as a part of their regular school schedule on campus. Through a partnership with A+ Driving School, Inc. of Parker, students may sign-up for Driver's Education as one of their classes during the day and receive both classroom instruction and hands-on, behind the wheel training. The fee for Driver's Education is set by and paid directly to A+ Driving School.

LuHi TV & Sports Information 11-12 Elective .5 Credit

The purpose of this course is to develop, monitor, and maintain the Lutheran High School Sports Network. The Sports Network includes the Lutheran Athletics website (GoLuHi.com), the Lutheran Athletics webcast channel (LuHi TV), as well as the Lutheran Athletics Twitter and Facebook accounts. In addition to keeping the Sports Network updated and current, the students in this course will explore methods and ideas in an effort to produce high-quality broadcasts and material. Students should have an interest in athletics, video production, and journalism.

Online/Dual Credit College Courses

See Guidance Counselor

Study Hall 9-12 Elective 0 Credits

This is an ungraded class with the objective of providing an environment conducive to studying. It provides a quiet environment for students to work on homework during the school day.

Teacher Assistant 11-12 Elective .5 Credit
 A maximum of one unit credit (2 semesters) may be earned during the 4 years of high school by serving as a student assistant to a teacher in a class or in the school offices. The student will perform tasks that provide hands on training in a variety of vocational areas such as office and business management, education and media. Before registering, the student must apply and secure permission from the school staff member who will supervise the assistantship. Once approved and registered, the assistant will be expected to serve each day that school is in session during the semester. Assistants will be scheduled in the class periods they are expected to serve. If the staff member has no specific duties for the assistant on a given day, the student remains with the staff member and uses the time to work on personal assignments. Evaluations will be given quarterly and at the end of the semester. A student may have only one Teacher Assistant position per semester.
 Prerequisite: Staff approval

Art Academy 11-12 Elective. 2 Credits
 Please see "The Academies at LuHi" section

Business Academy 11-12 Elective Credit earned through academy coursework and .5 credit for Capstone Project and Collaborative Community Experience.
 Please see "The Academies at LuHi" section

Lights Academy 11-12 Elective 2 Credits
 Please see "The Academies at LuHi" section

Mission & Ministry Academy 11-12 Elective Credit earned through academy coursework and .5 credit for Capstone Project and Collaborative Community Experience.
 Please see "The Academies at LuHi" section

Music Academy 11-12 Elective Credit earned through academy coursework and .5 credit for Capstone Project and Collaborative Community Experience.
 Please see "The Academies at LuHi" section

STEM Academy 11-12 Elective Credit earned through academy coursework and .5 credit for Capstone Project and Collaborative Community Experience.
 Please see "The Academies at LuHi" section

The Academies at LuHi

Pursue Your Passion, Honor God, Serve the Community

Academies Overview

Lutheran High School has been blessed with a firm foundation of faith, a history of strong academics, and a legacy of faithful instructors. As we reflect on what has and what continues to define us, we believe that our mission of *Nurturing Academic Excellence, Encouraging Growth in Christ*, is still absolutely why Lutheran High School exists. Even though our mission remains the same, we understand that maintaining relevance requires innovation and creativity. With our core values in place, we can reinvent, reframe, and repackage our academics with great joy and freedom. Even better than that, we can seek to add value to an already successful program of study. We believe The Academies at LuHi will add such value as we encourage participants to *Pursue Your Passion, Honor God, Serve the Community*.

The Academies at LuHi encourage students to pursue their academic passions while they are still in high school. Participation in an academy will include four essential elements (4 C's of Academies):

- C1 – Coursework
- C2 – Collaborative Community Experience
- C3 – Cross-Academy Curriculum
- C4 – Capstone Project

As freshmen and sophomores at Lutheran High School, students will hear about our academy offerings and be encouraged to pursue their area of greatest passion as juniors and seniors. With the extra coursework and responsibilities that accompany academy membership, applicants must demonstrate an ability to approach additional responsibilities with both a scholastic aptitude and appropriate attitude.

Upon completion of academy requirements, Lutheran High School will be pleased to add an academy endorsement to a student's transcript. This endorsement informs institutions of higher learning, future employers, and organizations that the student has had significant exposure to both the academic and practical applications of their area of passion, while completing a well-rounded program of study at Lutheran High School. This endorsement is also our acknowledgement that apart from merely taking additional courses, this student has also had the opportunity to work with mentors, present their accomplishments to the LuHi and greater community, and serve others in very tangible ways.

Additional Academy Benefits

Although we recognize that some of the college admissions benefits of academy membership may be difficult to quantify, we do believe that students who participate in academies will be set apart by the depth and breadth of their experience. Participation in an academy will not make up for low standardized test scores, but it will be a differentiator as admissions personnel look at transcripts, read recommendations, and have access to a student's Capstone Project. In addition to the academic advantages, students who receive academy endorsements will have demonstrated that they have the work ethic in place to pursue excellence, solve problems, learn independently, and see a project through to completion.

Practically speaking, we believe there are absolutely benefits to students pursuing their passions earlier in their educational experience. Academy students would either go on to their next phase of education more well-versed about their passion or knowing that they want to pursue something different. With the expense of higher education, it is beneficial to have a clear sense of direction about vocational pursuits.

We want students to use their talents, abilities, and passions to honor God and serve their community. Academy students will be able to be more effective in their areas of passion having taken additional classes; experienced courses designed to help them lead, communicate effectively, and make sound financial decisions; worked with mentors; and prepared a Capstone Project to help them share their experiences with the Lutheran High School and greater communities.

4 C's of Academies

Even though the academies will each follow a similar model to provide accountability for Courses (C1), Collaborative Community Experiences (C2), Cross-Academy Curriculum (C3), and Capstone Projects (C4), there are many areas in which the academies will differentiate from each other. STEM Academy, Music Academy, and Business Academy, for example, will have more specific Coursework (C1) as students are prepared to lead in the fields of Science, Technology, Engineering, and Math. The Mission & Ministry Academy will place a greater emphasis on their Collaborative Community Experience (C2) as they learn more working in ministry and non-profits and further develop their servant leadership and followership. The Art Academy will emphasize the creation of artwork for a senior art show for their Capstone Project (C4). Lights Academy, through the embedding of some required courses, allows students to spend their time in an intensive, cross-curricular learning experience that combines elements of Christian leadership, practical problem-solving, deep study and research in areas of interest, and real-world Collaborative Community Experiences (C2).

C1 – Courses

Course requirements for specific academies can be found under “Academics” on our website and “The Academies” as well as in our Academic Handbook.

Lights Academy and the Art Academy are considerably more self-contained and are each their own fulfillment of course requirements (C1). As a bonus for Lights Academy participants, Government and Public Speaking/Multimedia Presentations, both graduation requirements, are embedded within the curriculum.

C2 – Collaborative Community Experience

We believe that Collaborative Community Experiences are one of the hallmarks of The Academies at LuHi. Students will work with their academy advisor to establish a relationship with a mentor in the field of interest. Depending on which academy they are participating in, students may meet with leaders of local non-profits; shadow an engineer, visit job sites, solve real-life issues; participate in an Art Guild, work with local artists; or collaborate with a pastor or youth ministry program, to name a few examples. We are excited to see what connections students, in cooperation with academy advisors, make as they pursue their areas of passion.

C3 – Cross-Academy Curriculum

For students to be successful in their areas of passion, we believe it is essential for them to have the tools they need to succeed after Lutheran High School. We also want them to be leaders in their fields of interest and have the ability to express and share their ideas and give consideration to the appropriate allocation of resources. To that end, students in the STEM Academy, Art Academy, Business Academy, Music Academy, and Mission & Ministry Academy will be required to complete the following three courses: Leadership, Business Studies, and Public Speaking.

Students in Lights Academy will not have to take any additional Cross-Academy Curriculum Courses (C3) because Public Speaking is embedded and Leadership and Business are both major components of Lights Academy.

C4 – Capstone Project

The Capstone Project is the crowning achievement of a student's time with The Academies at LuHi and a chance for them to share with the community what they have accomplished with their project, how they have connected with mentors, and the impact they will be having after they leave Lutheran High School. Capstone Projects will be determined in consultation with academy advisors and the options are limitless. Depending on what passion a student is pursuing, Capstone Projects could include the presentation of research on how urban development relates to recreation facilities and green space, a project in a scientific area of interest, a Senior Art Show, or the planning and facilitation of a mission trip. Capstone Projects will be as varied as the number of students in academies and will be a phenomenal opportunity for academy members to share their experiences and make valuable connections for the future.

Students in the Business Academy, Mission and Ministry Academy, Music Academy, and STEM Academy will earn an additional .5 credit for their Capstone Project (including community collaboration) because they are not more self-contained academies as are Lights Academy and Art Academy.

Academy Admission

An application process for future juniors will be announced during the second semester of their sophomore year. Each academy will have an application and high academic expectations for admission and remaining an academy member in good standing.

Art Academy

Art Academy is for...

- Students who desire to use their God-given artistic talents to love their school and community in the name of Jesus.
- Students who love the creative process and are considering or have decided to pursue a career in an art field.
- Students who want to achieve artistic excellence through a rigorous program consisting of skill development, research, exploration, and experimentation.
- Students who would honor and appreciate extended times to work on projects and are serious about a commitment to expand their creativity and extend their knowledge while building a portfolio.
- Students who could thrive in a program in which creative thought and courageous intellectual risk-taking is encouraged and developed.
- Students who are interested in learning art disciplines, methods, and techniques from other artists (mentors).
- The coursework requirement for the Art Academy includes:
 - 9th grade: Intro to Art (semester) and an art elective (semester)
 - 10th grade: Two semesters of art electives
 - 11th grade: Two blocks of Art Academy (specialized curriculum designed to complete a portfolio)
 - 12th grade: Two blocks of Art Academy (specialized curriculum)

Business Academy

Business Academy is for...

- Students who desire to serve in the business world or gain a business background for a future pursuit.
- Students who have a passion for using their God-given interests and abilities in the business realm.
- Students who are passionate about finding practical ways to improve the world.
- Students who have high ethical standards and plan on positively influencing the marketplace.
- Students who thrive on developing new ideas, setting goals, and connecting with people.
- Students who take initiative and want to interact with leaders in the business world.

The coursework requirements for the Business Academy include six semester-long courses: three Cross-Academy Curriculum (C3) courses and three additional business courses of the student's choice. Coursework is completed any time during junior and senior year.

Cross-Academy Curriculum (C3):	Choose Three:
Business Studies Leadership Public Speaking	Sales & Marketing Accounting I Accounting II Personal Finance Advanced Business Studies

Lights Academy

Lights Academy is for....

- Students who have strong organization and planning skills and who are ready to take responsibility for their own learning.
- Students who possess the common values of Lights Academy and express these values in words and actions.
- Students who have a wide variety of interests and who embrace a non-traditional educational experience – one that emphasizes personal learning plans, self-discipline, and deep curiosity about the world in which we live.
- Students who want to personalize their experience in an academy in a different way from the requirements of existing Art, STEM, and Mission & Ministry academies.
- Students who enjoy deep study of topics and issues and who enjoy asking questions, finding answers, and exploring our interconnected world where academic disciplines as well as different realms, such as business, science, communication, and ministry, intersect.
- Students who seek control over the scope, pace, place, and assessment of their learning.

Lights Academy provides an intensive, cross-curricular learning experience that combines elements of Christian leadership, practical problem-solving, deep study and research in areas of interest, and potentially, real-world work experiences through internship and/or service project work that fulfill a student's personalized goals over a two year commitment. Lights Academy is an accelerated, project-based, personalized learning experience. Public Speaking and Government standards are also embedded within Lights Academy over the two years.

Students are admitted to Lights Academy through an application process and then become part of a cohort group as they collaborate together but also build a personalized learning plan around individual interests and aptitudes.

Mission & Ministry Academy

Mission & Ministry Academy is for...

- Students who long to serve God, learn more about His plans for their lives, and grow in relationship with Him.
- Students who want to interact with leaders in the field of Mission & Ministry.
- Students who have a heart for serving others in the community and building relationships.
- Students who believe we are called to actively live out the Great Commission (Matthew 28:18-20) and share our faith.
- Students who understand that despite their future vocations, opportunities to minister will exist.
- Students who can cast and create vision and desire to have a greater impact in sharing the Good News of Jesus Christ.

The coursework requirement for the Mission and Ministry Academy includes taking 1 additional credit of Theology in addition to their four years of required Theology. This academy has a greater emphasis on the Collaborative Community Experience (C2) component.

Music Academy

Music Academy is for...

- The student that has a passion for music and wants to pursue that passion on a deeper level.
- The student that wants to pursue excellence in music performance.
- The student that wants to develop confidence, skills, listening, and background knowledge in the field of music.
- The student that wants an opportunity to explore professional and non-professional opportunities in music.
- The student that wants to develop leadership skills, especially those necessary in the field of music.
- The student that has a desire to develop the tools necessary to begin and continue to share the Gospel through song.

Course Track

Freshmen year - two semesters of music ensemble participation

Sophomore year - two semesters of music ensemble participation

	Junior Year	Senior Year
Course #1	Music Theory	Capstone Project including Collaborative Community Experience
Course #2	Ensemble or lessons	Ensemble or lessons

STEM Academy

STEM Academy is for...

- Students who have an aptitude and interest in pursuing a career in the Sciences: Medicine, Engineering, Architecture, Applied Mathematics.
- Students who enjoy mathematics-based problem-solving.
- Students who can formulate thoughts/stories into real life/visual scenarios.
- Students who want to know more about God's languages and rules He gave this world.
- Students who enjoy academic reasoning with hands-on activities.
- Students who enjoy and desire academic competition in/with difficult concepts.

To be eligible to apply, students should plan ahead with their coursework during their freshmen and sophomore years. Students can "double-up" certain courses during a school year to complete the requirements.

The coursework requirement for the STEM Academy includes:

- 9th Grade – **Science:** Microbiology and Macrobiology (Plants and Animals), **Math:** Geometry or Honors Geometry
- 10th Grade – **Science:** General Chemistry and Inorganic Chemistry, **Math:** Algebra II (Honors if Geometry was not Honors level) and Computer Science & Programming
- 11th Grade – **Science:** Mechanics and Electricity & Waves, **Math:** Pre-Calculus (and Computer Science & Programming if not previously taken)
- 12th Grade – **Science: Engineering Route:** Pre-Engineering and two semester electives, **Medical Route:** Anatomy & Physiology, Organic Chemistry and a semester elective, **Math:** AP Calculus AB or AP Calculus BC (and Computer Science & Programming if not previously taken)

Requirements to receive a STEM endorsement on a student's transcript include earning an A in:

- 4.5 Credits of Science (required classes and an elective of their choosing)
- 4.5 Credits of Math (1 Credit must be AP Calculus, incoming freshmen and sophomores must have one additional honors/college class, .5 Credits come from Computer Science & Programming)
- Computer Science & Programming (or alternative approved by STEM Director)
- C3 Requirements: Leadership, Business Studies, and Public Speaking

Dear Students and Parents,

It is our wish that Lutheran High School 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 the Lord has given 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 LuHi. We desire every student to find the vocation in life in which they can serve God to the fullest.

Please do not hesitate to contact us with further questions.

Sincerely,

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