

2022-2023 COURSE CATALOG

SHARING JESUS, SHAPING LIVES, DEVELOPING LEADERS

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INTRODUCTION

This course catalog describes the various education programs, registration information and course offerings available to students for the 2021-2022 school year. It should be noted that some listed courses may ultimately not be offered due to insufficient student interest.

Milwaukee Lutheran High School offers a high quality, comprehensive curriculum. Our academic courses are designed to meet the individual needs of each student as we prepare the student for a productive post-secondary experience. Students receive the opportunity to select appropriate courses from each department, which will challenge their ability and provide a well-rounded education.

EDUCATIONAL PROGRAMS

Instruction and student learning at Milwaukee Lutheran are approached from a Christian worldview. The minimum graduation requirements are listed below.

GRADUATION REQUIREMENTS								
Religion	8 Credits							
English	8 Credits							
Social Studies	6 Credits							
Mathematics	6 Credits							
Science	6 Credits							
Physical Educ.	4 Credits							
Financial Literacy	1 Credit							
Electives	11 Credits							
TOTAL = 50 Credits	1 Credit = 1 Semester							

PROGRAM PLANNING

Course program planning is a joint task among students, parents, and school personnel. Milwaukee Lutheran academic advisors will work closely with students in planning immediate and long-range course programs to best suit high school and post-high school plans. Course selections should also be carefully discussed at home.

Listed below are the <u>required</u> courses for each grade level. Students should make careful choices consistent with their academic goals when selecting courses, especially electives. This will avoid unnecessary schedule changes.

Grade 9	Grade 9 Grade 10		
Freshman Religion	2 Credits	Sophomore Religion	2 Credits
English*	2 Credits	English	2 Credits
Mathematics*	2 Credits	Mathematics	2 Credits
Freshman Physical Education	1 Credit	Physical Education Elective	1 Credit
Science*	2 Credits	Biology or Science Elective	2 Credits
Geography/Civics	2 Credits	U.S. History I / II	2 Credits
Design, Tech. Ed, or Business	1 Credit	Electives	3-5 Credits
Electives	2-4 Credits		
Grade 11		Grade 12	2

Junior Religion English Mathematics Physical Education Elective Science Electives Social Studies Electives Financial Literacy**	2 Credits 2 Credits 2 Credits 1 Credit 2 Credits 2 Credits 1 Credit	Senior Religion English Physical Education Elective Financial Literacy** Electives	2 Credits 2 Credits 1 Credit 1 Credit 7-11 Credits
Electives	3-6 Credits		

* These courses are assigned based on the results of the freshman placement test

** Students must successfully complete a financial literacy course either their junior or senior year

CREDIT LOAD

Students are required to be enrolled in a minimum of twelve credits each year (six credits each semester). A typical course load is between fourteen and sixteen credits per year (seven or eight credits each semester). The principal may grant exemptions to these requirements for upperclassmen with special considerations. Early graduation is not a practice of Milwaukee Lutheran High School.

Credits awarded by previous schools may be accepted if they are included in the Milwaukee Lutheran curriculum and are deemed to be of sufficient level and length (minimally one semester long), and quality (must be considered passing within our grading system; percentage grades will be converted to a letter grade according to the MLHS grade scale). Course work that is unique to a particular school or school system will not be accepted as a transfer credit.

GRADE-LEVEL PROMOTION

Students are promoted to the next grade level when they have met or exceeded the credit totals stated below by the end of the current academic year:

<u>Grade 9</u> : 13 Credits	Grade 10: 25 Credits
Grade 11: 37 Credits	Grade 12: 50 Credits (upon graduation)

Students needing additional credit to achieve grade-level promotion can speak with the Academic Advising Office for credit recovery options.

SCHEDULE CHANGES

Students will have the opportunity to request schedule changes up until the first day of each semester. The procedure requires written permission from a parent and the signatures of the instructors of courses being dropped <u>and</u> added.

Schedule changes will only be considered for acceptable reasons including:

- Failure of a required or prerequisite course.
- Adding a course needed to graduate on time.
- Accommodating a medical condition.
- To balance class sizes.
- To provide an academic intervention or support.

Students may drop an elective course at the conclusion of the first six-week grading period without a grade penalty; however, only a study hall can be added to their schedule at that time. If a student wishes to drop a course after the six-week point, the grade given is a Withdrawal-F. The only exception is if the drop is recommended by the classroom teacher because the student is unable to successfully complete the work assigned due to a lack of ability in the subject matter.

ADVANCED PLACEMENT / HONORS COURSES

Advanced Placement (A.P.) and Honors courses are designed to challenge students who excel in the classroom. A.P. courses may result in college credit being awarded in addition to high school credit. End of year examinations by the College Board determine whether students have sufficiently demonstrated the learning necessary to grant college credit. In most circumstances, college credit is awarded with a score of 3 to 5 on the AP test. Other scores may be

considered based on the institution. Additional information on AP courses and exams may be found at www.collegeboard.com. Students will be pushed intellectually to commit to excellence in preparation for what they will experience in a college classroom. Course expectations for A.P. courses are in excess of what is expected from an advanced course.

DUAL CREDIT COURSES

Dual credit courses enable students to earn college credits while in high school. The advantage of these courses is that the courses grant credit for successfully completing a course, unlike Advanced Placement credits which are based on passing a single, comprehensive exam. The high school credit is reflected on the Milwaukee Lutheran transcript. The college credit is awarded through the participating institution and can be transferred according to the transfer policies of the accepting institution. See the advisors for information on available programs and courses, enrollment, and other policies.

ACADEMIC SUPPORT

INTERNSHIP (AC 400)	Elective	Credit	9	10	11	12
		1.0				X

Students can earn credit for internships. They will be under the supervision of Milwaukee Lutheran High School and will work to develop skills in the areas of communication, organization and problem solving.

CAREER INDEPENDENT STUDY (AC 500)	Elective	Credit	9	10	11	12
		varies				X
Students can earn credit for work-related programs, coursework and/or experience.						

ART

INTRODUCTION TO DRAWING (AR 110)	Elective	Credit	9	10	11	12
	-	1.0	X	X	X	X
Students will have opportunities to learn what it takes to make creative interesting and successful artwork. Students will learn						

Students will have opportunities to learn what it takes to make creative, interesting, and successful artwork. Students will learn various drawing skills including portraits, perspective, and color theory that will prepare them to be better artists capable of advanced coursework in drawing, illustration, and painting.

INTERMEDIATE DRAWING (AR 210) Elective	Elective	Credit	9	10	11	12
Prerequisite: C Grade or Better in AR 110		1.0		X	Х	X

This course combines drawing techniques, creativity, and digital technology to create cartoons, comics, manga, and illustrations. Students will focus on problem solving, communicating messages, and telling stories through story book illustration, article illustration, and product & poster illustration.

INTERMEDIATE PAINTING (AR 220) Prerequisite: C Grade or Better in AR 120	Elective	Credit	9	10	11	12
		1.0		X	Х	X

This course includes concepts of the traditional painting discipline while building on the painting techniques and color theory taught in 2D. Students will be working in acrylic and watercolor while learning classic techniques along with a few modern approaches.

INTRODUCTION TO 3-DIMENSIONAL ART (AR 230)	Elective	Credit	9	10	11	12
		1.0		Х	X	X

Students will learn 3-D design and building techniques of ceramics, jewelry and sculpture. Use clay, wood, metal, plaster, and other materials to create sculptures, vessels, jewelry and reliefs.

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INTERMEDIATE SCULPTURE AND CRAFTS (AR 240)	Elective	Credit	9	10	11	12
Prerequisite: C Grade or Better in AR 110, AR 230, DS 100	-	1.0		X	Х	X

This course introduces students to the skills and media of arts and crafts. We will be using various materials to develop our design, constructing and craft making skills. Make home décor, paper & textile crafts and other DIY projects.

ADVANCED DRAWING (AR 310)	Elective	Credit	9	10	11	12
Prerequisite: C Grade or Better in AR 210	_	1.0			X	X

This course includes skills of traditional drawing such as portraits, figure drawing, and storytelling, but also focuses on giving students an opportunity to express themselves with new media and techniques. The class is for artists with strong drawing abilities that would like to improve their drawing skills or prepare for coursework at the collegiate level.

ADVANCED PAINTING (AR 320)	Elective	Credit	9	10	11	12
Prerequisite: C Grade or Better in AR 220	_	1.0		Х	Х	X

Advanced work with acrylic will be done as well as experimenting with non-traditional painting tools and methods. Focus on creative expression, experimentation, and creating an identity through paint.

INTERMEDIATE CERAMICS (AR 330)	Elective	Credit	9	10	11	12
Prerequisite: C Grade or Better in AR 230	_	1.0			X	X

Students learn various skills of creating and decorating clay objects. Several hand building and potter's wheel techniques are explored. Construct and glaze sculptures, tiles, cups, bowls, lid pots, and other projects. Then, take your work home and use it!

ADVANCED STUDIO ART 1 (AR 410)	Elective	Credit	9	10	11	12
Prerequisite: 3 Semesters of Art and Department Approval	_	1.0			X	X

Students enhance their art skills through their choice of advanced drawing, painting, graphic design, ceramic or sculpture focusing on creating a cohesive portfolio. The majority of this course is student driven where the students are working on expanding their existing abilities.

ADVANCED CERAMICS (AR 430)	NCED CERAMICS (AR 430) Elective	Credit	9	10	11	12
Prerequisite: C Grade or Better in AR 330	_	1.0			X	X

Advanced Ceramics studio in which students complete five major projects using skills and concepts learned in Ceramics I. Additional hand building and potter's wheel techniques are explored. Make handles, lids, big pots, sculptures, pitchers, sets of dishes, and teapots!

ADVANCED STUDIO ART 2 (AR 510)	Elective	Credit	9	10	11	12
Prerequisite: Studio Art 1 and Department Approval		1.0			Х	X

Students will continue to enhance their art skills – building on concepts and skills from the Studio Art 1. Using a variety of media, students will develop creative solutions to projects involving brand identity, visual expression, and expanding an aesthetic style. Students will continue to build a comprehensive personal portfolio.

BUSINESS EDUCATION

COMPUTER APPLICATIONS I (BU 120)	Required	Credit	9	10	11	12
		1.0	Х	Х	X	X

This course is designed for beginning students who have limited knowledge of the keyboard, Word, Excel and Power Point. Students develop skill levels in keyboarding speed and accuracy. Students will also develop knowledge of word processing, producing both personal and business documents, spreadsheets, database management and presentation and graphics. The course is applicable to students for both personal and vocational use. A test-out option is available for this course.

COMPUTER APPLICATIONS II (BU 220)	Elective	Credit	9	10	11	12
Prerequisite: BU 120		1.0		X	X	X

This course is designed for students who already know the keyboard and have an introductory knowledge of Word, Excel and Power Point. Students develop increasing skill levels in keyboarding speed and accuracy and will continue to expand their knowledge of word processing, producing both personal and business documents, spreadsheets, database management and presentation and graphics. The course is applicable to students for both personal and vocational use.

PRINCIPLES OF PROGRAMMING (BU 230)	RAMMING (BU 230) Elective	Credit	9	10	11	12
Prerequisite: MA 200 or Department Approval	_	1.0		Х	X	X

This course explores many basic programming principles including variables, algorithms, functions, Boolean logic, and loops. The curriculum consists of two units in JavaScript (or a visual block equivalent) from code.org's A.P.-endorsed Computer Science Principles course: "Algorithms and Programming" and "Building Apps." The pacing of the course may be adjusted to the needs of the students in that particular semester, with additional time being spent engaging in applications for programming, big data, and privacy if time allows.

PRINCIPLES OF PROGRAMMING II (BU 235) Elec	Elective	Credit	9	10	11	12
Prerequisite: BU 230 or Department Approval	_	1.0		Х	X	X

Programming II continues the work of Programming I by expanding on the fundamentals of computer programming as well as some advanced features of the Python language. Students will develop an appreciation for how computers store and manipulate information by building simple console-based games.

ACCOUNTING I (BU 310)	Elective	Credit	9	10	11	12
Prerequisite: MA 160	_	1.0			X	X

Accounting is a course intended for all students--for those intending to explore the field as a career, for those going into other occupations in the business world and for those who want to learn record keeping for personal use. This course introduces the students to double-entry bookkeeping.

PERSONAL FINANCE (BU 320)	Elective	Credit	9	10	11	12
Prerequisite: MA 160	_	1.0			X	X

Personal finance helps the student learn how to deal with professional marketers and how to make more satisfying decisions regarding the many problems they will face as a consumer. The student learns about these many consumer problems through lectures in class, reading interviews with businessmen, education simulations and role-playing. Major units include budgeting use of credit, investments and insurance. Several simulations included in the course will involve the use of the internet and software that the student could adapt to his/her own personal needs now or at some time in the future.

BUSINESS MARKETING (BU 330)	Elective	Credit	9	10	11	12
Prerequisite: BU 110	_	1.0			X	X

Students will be introduced to the exciting world of creating and owning their own business. The four P's of marketing will be the focus. Topics studied will include bookkeeping, payroll, record keeping, inventory management and sales, and customer service. Students will gain valuable knowledge and hands on experience working in conjunction with the Lutheran Print Specialists.

MEDIA PRODUCTION AND ANALYSIS (BU 340)	Elective	Credit	9	10	11	12
		1.0			Х	X

This course will focus on the fundamentals of video production. Simple techniques – including shooting and editing will be emphasized. The main focus will be "hands-on" digital video production. There will also be an emphasis involving sports statistics as it relates to MLHS athletics. Students will use MLHS sporting events, drama productions, and music performances as the subject of content.

PRINCIPLES OF PROGRAMMING III (BU 350)	Elective	Credit	9	10	11	12
		2.0			X	X

Programming III is an introduction to the Java programming environment. The Intro to Java (Latte) course is a year-long course designed to help students master the basics of Java with a focus on problem solving and algorithm development. This course is NOT designed to prepare students for the AP Java exam.

ACCOUNTING II (BU 410)	Elective	Credit	9	10	11	12
Prerequisite: BU 310	_	1.0			Х	X

Accounting is a course intended for all students--for those intending to explore the field as a career, for those going into other occupations in the business world and for those who want to learn record keeping for personal use. This course introduces special problems associated with bookkeeping, payroll record keeping, automated bookkeeping and income tax.

LUTHERAN PRINT SPECIALISTS (DS/BU 420)	Elective	Credit	9	10	11	12
Prerequisite: BU120		1.0			Х	X

Lutheran Print Specialists is business owned by Milwaukee Lutheran and operated by its students. Students will print posters, banners, programs, and other materials for Milwaukee Lutheran and the community at large. Roles in this business include project management, sales and client services, financial systems, design creation, and print production. Application for this course is required.

BUSINESS SUCCESS (BU 430)	Elective	Credit	9	10	11	12
		1.0			X	X

The Business Success Course is designed to prepare students for the corporate world and a career in the field of business. Students will work through developing a resume and portfolio, personal economics, networking, management and many other financial and business topics as they prepare for their future.

YEARBOOK (BU 510/515)	Elective	Credit	9	10	11	12
Prerequisite: DS 100		2.0			X	X

This course is designed for students who wish to participate in yearbook production. Topics include financing a yearbook, yearbook journalism, yearbook photography, planning and producing pages, and preparation of a yearbook for final printing. Additionally, yearbook students contribute to school social media production.

DESIGN EDUCATION

INTRODUCTION TO DESIGN (DS 100)	Elective	Credit	9	10	11	12
	_	1.0	X	Х	Х	X

This introductory course covers the basic of design and experiences in Adobe Photoshop, Illustrator, and other industry-standard software. Students use computers to build habits, solve problems and practice skills as they create graphic designs, animation, digital photos, and other design-based projects. Students will create online portfolios of their best work. This course is just the starting point for our great Design curriculum!

INTERMEDITE DESIGN-GRAPHIC DESIGN (DS 200)	Elective	Credit	9	10	11	12
Prerequisite: C Grade or Better in DS 100		1.0		Х	X	x

Explore the power of graphic design as communication and expression. Discover the impact, principles, and components of Advertising, Packaging, Logos, Posters, Greeting Cards, and more! Create an online portfolio and design projects for our school community.

INTERMEDIATE DESIGN-DIGITAL PHOTOGRAPHY (DS 250)	Elective	Credit	9	10	11	12
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Prerequisite: C Grade or Better in DS 100

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Learn how to take and make great photos. Discover composition concepts and camera techniques to make your photos great. Add meaning and expression to your photos. Consider elements such as subject matter lighting, background, and file format. Learn to creatively and successfully manipulate your photos using Photoshop. Experience the skills of studio photography and discernment of managing an online portfolio. A digital camera is required for this course. A limited supply of cameras is available on short term loan.

	Elective	Credit	9	10	11	12
Prerequisite: C Grade or Better in DS 100		1.0		Х	X	X

Design and create interactive games for computers and mobile devices! Add simple animation, media and interactivity to web pages. Learn what it takes to plan and produce simple quizzes, strategy games, and even time-based action games! Design projects for the school community and create a personal online portfolio.

	Elective	Credit	9	10	11	12
Prerequisite: C Grade or Better in DS 100		1.0		Х	Х	X

Create animations through simple photography and computer design. Create animations in pen-and-paper, Stop-motion, Adobe Flash, photo-manipulation, and more! Learn the skills of planning, producing, directing, developing characters, designing environments, narrating, writing dialogue, lip syncing, and managing post-production work for individual and cooperative animated productions.

ADVANCED DESIGN STUDIO (DS 400) Elective	Credit	9	10	11	12	
Prerequisite: DS 100 & One 200 Level Design Course	_	1.0			X	X

Using knowledge and skills gained in other design courses, students will Design and Create several independent and varied projects. Service-oriented projects for the school and community will be included. Portfolio development is emphasized. This course may be taken more than once.

ADVANCED PRINT SPECIALISTS (DS/BU 420) Ele	Elective	Credit	9	10	11	12
Prerequisite: DS 100 & DS 200		1.0			Х	X

Lutheran Print Specialists is business owned by Milwaukee Lutheran and operated by its students. Students will print posters, banners, programs, and other materials for Milwaukee Lutheran and the community at large. Roles in this business include project management, sales and client services, financial systems, design creation, and print production. Application for this course is required.

ENGLISH 8 Credits Required

English course selection can be constructed in the following manner:								
FRESHMEN		SOPHOMORE		JUNIOR		SENIOR		
Applied English	⇒	English I	\Rightarrow	English II	\Rightarrow	English Electives		
English I	⇒	English II	\Rightarrow	English Electives	\Rightarrow	A.P. English <i>or</i> English Electives		
Honors English I	⇒	Honors English II	⇒	English Electives	⇒	A.P. English <i>or</i> English Electives		

APPLIED ENGLISH (EN 100/105)

2.0	X			
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Applied English is a two-semester course that aims to bring students to grade-level proficiency in English. Throughout the year, we will focus on study skills, reading comprehension, grammar and composition, speech presentation, and basic literature analysis.

READING STRATEGIES (EN 110)	Required	Credit	9	10	11	12
		1.0	Х			

This course is designed to help students who enter Milwaukee Lutheran with lower reading scores. Lessons will emphasize reading strategies that lead to greater comprehension. This course is taken in conjunction with Applied English or English I.

ENGLISH I (EN 120/125)	Required	Credit	9	10	11	12
		2.0	X			

The integration of reading, writing and human communications skills is the focus of this course. Students will be introduced to the study of standard formal grammar, mechanics and usage, and will be encouraged to use this as the basis for all communication. The basic elements of oral communication will also be introduced and explored. After completion of this course, students will have the necessary skills to begin further study in English and in all areas of the curriculum that require the standard use of the English language.

HONORS ENGLISH I (EN 150/155)	Required	Credit	9	10	11	12
Prerequisite: Department Approval	_	2.0	Х			

This course is designed for those students whose skills, background and interest in English are above average. The readings and responses are more advanced and challenging, and the pace of the course will be faster. Students will read several novels which will become the basis from which the other skills are explored. In order to be eligible for this course, students must do well on the placement test given the preceding spring.

ENGLISH II (EN 220/225)	Required	Credit	9	10	11	12
Prerequisite: EN 120/125	_	2.0		Х	Х	

This course will provide students the opportunity to explore American Literature through various genre', and analyze and react through writing and oral presentations. Emphasis will be put on further developing the understanding of oral communication and strategies of presentation. There will be a review of punctuation, agreement and usage and a research project/presentation will be the culmination of this course.

HONORS ENGLISH II (EN 250/255)	Required	Credit	9	10	11	12
Prerequisite: Department Approval		2.0		Х		

This course is the continuation of Enrichment English I and is considered an advanced English II. This course will require a higher level of thinking and a faster pace as students explore American Literature through various genre'. The American Novel will also be explored and oral communications and presentations will be expanded. As in English II a research project/presentation will be the culminating performance. In order to be eligible for this course, students will take a department sponsored test during the preceding spring.

WORLD LITERATURE (EN 330) Electi	Elective	Credit	9	10	11	12
Prerequisite: EN 220/225 or higher		1.0			Х	X

Non-American literary sources will be read and studied during this survey, one semester course. Emphasis will be placed on older classical pieces of literature with units on non-Western literature, Ancient Greece, European Middle Ages, and contemporary short stories. Students will also work to improve their vocabulary.

MODERN FICTION (EN 350) Electron	Elective	Credit	9	10	11	12
Prerequisite: EN 220/225 or higher	_	1.0			Х	X

This course examines the themes found in the short stories, novels, and films that have been produced from the 1940's through the present. Works are studied for content and technique, as well as for worldview; comparison to and contrast with other works of fiction will also be discussed. In addition, each work will be examined in relation to the time period in which it was produced, as well as its relevance to contemporary society.

WRITING WORKSHOP (EN 360)Elective	Elective	Credit	9	10	11	12
Prerequisite: EN 220/225 or higher	_	1.0			X	X

The emphasis in this course is writing, and students will write weekly in various genre' and for various purposes. Students will recognize writing as an extension of thinking and shaping ideas. The process of writing - from prewriting/conceptualization to self and peer editing - will be emphasized to improve the students' writing abilities. A weekly review of a mechanical, grammatical or usage guideline will be given. This course is recommended for all college bound students.

PROFESSIONAL COMMUNICATION (EN 365) Elective	Elective	Credit	9	10	11	12
Prerequisite: EN220/225 or higher	_	1.0			Х	X

Business Communication exists to prepare and enable students to develop and incorporate strategies for professional communication and to recognize, value and practice the culture of business in the contemporary business world. Examples of topics covered will be cover letter, resume writing, networking, mock interview and presentation skills.

MULTI-ETHNIC LITERATURE (EN 380)	Elective	Credit	9	10	11	12	
Prerequisite: EN 220/225 or higher		1.0			X	X	

Students will explore specific ethnic and cultural literature across different genres. They will compare and contrast different cultural heritages and respond through writing and orally. In this course students will reflect on their own heritage and identity as Christians and as people of a culture and ethnicity.

ORAL COMMUNICATIONS (EN 390) Elective	Elective	Credit	9	10	11	12
Prerequisite EN 220/225 or higher	_	1.0			X	X

This course is designed to increase students' knowledge of the communication process and to develop effective communication skills, primarily through speaking and listening. It focuses on four major units: the communication process, listening & interpersonal communication, public speaking, and persuasion. This course will also provide practice in communicating effectively when doing performance assessments. While the course emphasizes speaking and listening, it incorporates reading and writing to help students develop fully as effective communicators.

A.P. ENGLISH LITERATURE (EN 510)	Elective	Credit	9	10	11	12
Prerequisite: EN 330 & Department Approval	_	1.0				X

This course provides a college-level, college-format course involving in-depth reading of various genres of literature. The texts are studied in their cultural, historical, and sociological contexts, with emphasis on theme, tone, structure, style, and methods of character development. Students are encouraged to form and share their own opinions and to support them with viable evidence from the texts, considering the social and historical values it reflects and embodies. Through experiencing, interpreting, and evaluating the literature, students will fully grasp the literary merit of the text. The goal of this course is to prepare students to both succeed on the AP Exam and to write effective, college-level essays. *(Limited enrollment.)*

	Elective	Credit	9	10	11	12
Prerequisite: EN 330 & Department Approval		1.0				x

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A.P. English is a college-level English course that often takes more time, requires more work, and gives greater opportunity for individual accomplishment than a regular high school English course. It is expected that students who select this course are serious about taking the A.P. exam, seeking college credit and/or placement. *(Limited enrollment.)*

WORLD LANGUAGE

SPANISH I (FL 110/115)

Elective	Credit	9	10	11	12
-	2.0	Х	Х	Х	

This course gives students the opportunity to learn the mechanics of basic Spanish, which includes gaining proficiency in speaking, listening, reading, and writing. Grammatical concepts are also covered in order to understand the language better. Various cultural topics are discussed and presented through videos and Internet resources. Knowledge of English grammar is needed.

	Elective	Credit	9	10	11	12
Prerequisite: FL 110/115 C- or better year average		2.0	X	X	X	X

This course continues to build on the abilities learned in Spanish I with increasing proficiency in speaking, listening, reading, and writing. There is a review of Spanish I material as well as further explanations of grammar so that the language can be used in more challenging ways. Students also gain additional insights into culture through various presentations, projects, and videos

	Elective	Credit	9	10	11	12
Prerequisite: FL 210/215 with C- or better year average	_	2.0		Х	Х	X

Spanish III offers a comprehensive review of grammar and vocabulary skills learned in Spanish I and II. More tenses and vocabulary are taught throughout the year. Oral skills are emphasized.

	Elective	Credit	9	10	11	12
Prerequisite: FL 310/315 with C or better		2.0			X	Х

Spanish IV offers a comprehensive review of grammar and vocabulary skills. Short story and poetry reading is required.

SPANISH V (FL 550/555)	Elective	Credit	9	10	11	12
Prerequisite: FL 410/415 with C or better		2.0			Х	X

This course, taught almost exclusively in Spanish, will utilize language skills learned in Spanish I-IV to teach students about the Spanishspeaking world. Spanish V emphasizes the learning of culture while focusing on history, literature, film, dialect, music, art, celebrations, beliefs, and more. Upon completion, students will be knowledgeable of Spanish and Latin American societies and will be more confident communicating in the target language. Students will also continue to study complex grammar structures and practice reading, writing, listening, and speaking skills introduced in Spanish I-IV.

MATHEMATICS

6 Credits Required

Math course selection can be constructed in the following manner:							
FRESHMEN	SOPHOMORE	JUNIOR	SENIOR				
-			11				

Pre-Algebra		Algebra		Geometry		Adv. Algebra Trig
Algebra	⇒	Geometry	⇒	Adv. Algebra Trig.	⇒	Pre-Calculus <i>or</i> Prob. and Stats
Honors Algebra	⇒	Honors Geometry	⇒	Honors Adv. Algebra Trig.	⇒	Honors Pre-Calc. <i>or</i> Prob. and Stats
Acc. Geometry	⇒	Honors Adv. Algebra Trig.	⇒	A.P. Calculus AB	⇒	A.P. Calculus BC <i>or</i> Prob. and Stats

PRE ALGEBRA (MA 100/105)	Required	Credit	9	10	11	12
	_	2.0	X	X		

This course provides preparation for study in algebra. Topics include a review of basic arithmetic skills including fractions and decimals, work with integers and order of operations, simplifying expressions with variables and an introduction to solving equations. A scientific calculator is required.

ALGEBRA (MA 160/165)	Required	Credit	9	10	11	12
		2.0	X	X	X	X

The course consists of a thorough introduction to the algebra of real numbers. It emphasizes practical problem solving along with abstract algebraic processes. Acquiring a formal mathematical vocabulary is an integral part of the course. An introduction to probability, statistics and use of a scientific calculator is included in this course. A scientific calculator is required.

HONORS ALGEBRA (MA 170/175) *Required	*Required	Credit	9	10	11	12
Prerequisite: *Department Approval	_	2.0	X			

This course is designed for students who have been exposed to basic Algebra topics. It includes all of the concepts listed for Algebra. Students must qualify for this course through a department-sponsored test. A scientific calculator is required.

GEOMETRY (MA 210/215) Required	Required	Credit	9	10	11	12
Prerequisite: MA 160/165 or Equivalent		2.0		X	Х	X

This course studies plane geometry, including basic terminology, symbols and relationships of points, lines, rays, segments, angles, polygons, and circles. Basic logic skills are developed and applications of algebra to geometric concepts are emphasized. A scientific calculator is required.

HONORS GEOMETRY (MA 220/225) *Required	*Required	Credit	9	10	11	12
Prerequisite: *Department Approval	_	2.0	X	X		

This course includes all of the concepts listed for Geometry. In addition, three-dimensional topics are explored and formal proofs are emphasized. A scientific calculator is required.

INTERMEDIATE MATH (MA 250/255) Elective	Elective	Credit	9	10	11	12
Prerequisite: Department Approval	_	2.0		Х	X	X

This course is designed for the student who has completed Algebra and Geometry but would benefit from additional math work at a self-pace. Topics to be covered include number theory, problem solving, number patterns and basic Probability and Statistics. A scientific calculator is required. This class can be done online with approval of the advisor.

ADVANCED ALGEBRA TRIG (MA 350/355)	Elective	Credit	9	10	11	12
<i>Prerequisite: MA 210/215 or higher</i>	-	2.0		X	X	X

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This course is designed to prepare students to use advanced algebraic skills and concepts in mathematics and other related disciplines. It includes a study of linear, quadratic, polynomial, trigonometric, and logarithmic functions. A graphing calculator is required.

HONORS ADVANCED ALGEBRA TRIG (MA 360/365)	Elective	Credit	9	10	11	12
Prerequisite: Department Approval		2.0		Х	Х	X

This course is designed for the students with strong abilities in mathematics. It is a continuation of first-year algebra and stresses the function concept, analytic geometry, and trigonometry. Algebraic skills, as well as the structure of mathematics, are stressed. A graphing calculator is required.

PROBABILITY AND STATISTICS (MA 400/405) Elective	Credit	9	10	11	12	
Prerequisite: MA 350/355 or higher	-	2.0			X	X

This course is designed as a background to college mathematics and science courses by covering various topics related to higher level thinking skills. Topics covered include combinatorics, probability, statistics, logic and game theory. A graphing calculator is required.

PRE-CALCULUS AB (MA 410/415)	Elective	Credit	9	10	11	12
Prerequisite: MA 350/355 or higher		2.0			Х	X

This course is a preparation for Calculus. It includes the study of algebra, trigonometry, relations, conic sections, matrices, probability, limits and complex numbers with an emphasis in graphing functions. A graphing calculator is required.

HONORS PRE-CALCULUS AB (MA 420/425) Elective	Elective	Credit	9	10	11	12
Prerequisite: MA 350/355 or higher	_	2.0			Х	X

This course is designed for strong Math students in preparation for Advanced Placement Calculus. It includes the study of algebra, trigonometry, relations, conic sections, matrices, probability, limits and complex numbers with an emphasis in graphing functions. A graphing calculator is required.

HONORS PROBABILITY & STATISTICS (MA 450/455)	Elective	Credit	9	10	11	12
Prerequisite: Department Approval		2.0			Х	Х

This honors course will offer an intense and in-depth study of statistics specifically designed for the serious math student. A graphing calculator is required (TI-84 recommended). Four broad themes will be explored: Exploring Data, Planning a Study, Anticipating Patterns in Advance, and Statistical Inference. This course may provide opportunity for students to attempt to earn college credit and/or placement from a college by scoring appropriately on the national A.P. examination given annually in early May.

A.P. CALCULUS AB (MA 550/555)	Elective	Credit	9	10	11	12
Prerequisite: MA 360/365 or MA 410/415 & Department Approval	_	2.0			Х	Х

An Advanced Placement (A.P.) course consists of a full academic year of work in calculus and related topics comparable in scope to one semester of the traditional college calculus course sequence. Students who take an A.P. course can seek college credit and/or placement from institutions of higher learning through the national A.P. examination. A graphing calculator is required. *(Limited enrollment.)*

	Elective	Credit	9	10	11	12
Prerequisite: MA 550/555 & Department Approval	_	2.0				X

This Advanced Placement (A.P.) course consists of a full academic year of work in calculus and related topics comparable in scope to two semesters of the traditional college calculus course sequence. Students who take an A.P. course can seek college credit and/or placement from institutions of higher learning through the national A.P. examination. A graphing calculator is required. *(Limited enrollment.)*

MUSIC

MEN'S CHORUS (MU 100/105) <i>Ele</i>	Elective	Credit	9	10	11	12
Prerequisite: Department Approval	_	2.0	Х	Х	X	X

This beginning choir of male voices will be exposed to and perform music from many different periods of history. Work on vocal technique, sight-reading skills, and theory will be stressed. Required performances may include, but are not limited to, the Christmas concert, spring concert and Fine Arts Concert.

WOMEN'S CHORUS (MU 110/115)Elective	Credit	9	10	11	12	
Prerequisite: Department Approval		2.0	X	X	X	X

This beginning choir of female voices will be exposed to and perform music from many different periods of history. Work on vocal technique, sight-reading skills, and theory will be stressed. Required performances may include, but are not limited to, the Christmas concert, spring concert, and Fine Arts Concert.

	Elective	Credit	9	10	11	12
Prerequisite: Audition, Department Approval		2.0		Х	Х	X

This advanced choir of mixed voices will expand upon previous musical selections performed in the Women's and Men's Choruses. This group serves as an intermediate choir between chorus and the advanced choirs. Continued work on vocal technique, sight-reading skills, and theory will be stressed. Required performances may include, but are not limited to, the Christmas concert, spring concert, and Fine Arts Concert, chapel services, Lutheran High Sundays, tour performances, and any other performances if given at least one month's notice.

	Elective	Credit	9	10	11	12
Prerequisite: Audition, Department Approval		2.0		X	X	X

This advanced women's choir of select voices will be exposed to and perform music from many different periods of history. Continued work on vocal technique, sight-reading skills, and theory will be stressed. Required performances may include, but are not limited to, the Christmas concert, spring concert, and Fine Arts Concert, chapel services, Lutheran High Sundays, tour performances, and any other performances if given at least one month's notice.

ADVANCED MEN'S CHOIR (MU 240/245)	Elective	Credit	9	10	11	12
Prerequisite: Audition, Department Approval		2.0		X	Х	X

This advanced men's choir of select voices will be exposed to and perform music from many different periods of history. Continued work on vocal technique, sight-reading skills, and theory will be stressed. Required performances may include, but are not limited to, the Christmas concert, spring concert, and Fine Arts Concert, chapel services, Lutheran High Sundays, tour performances, and any other performances if given at least one month's notice.

, ·····(····(····)	Elective	Credit	9	10	11	12
Prerequisite: Audition, Department Approval	_	2.0		Х	X	X

This advanced choir of mixed voices will be exposed to and perform music from the twentieth century primarily focusing on worship, gospel, and praise music. Continued work on vocal techniques, sight-reading skills, and theory is included. Required performances may include, but are not limited to, the Christmas concert, spring concert, and Fine Arts Concert, chapel services, Lutheran High Sundays, tour performances, and any other performances if given at least one month's notice.

BEL CANTO CHOIR (MU 410/415)		Credit	9	10	11	12
Prerequisite: Audition, Department Approval	_	2.0		Х	X	X

This advanced choir of select voices will be exposed to and perform music from many different periods of history. Continued work on vocal techniques, sight-reading skills, and theory is included. Required performances may include, but are not limited to, the Christmas

concert, spring concert, and Fine Arts Concert, chapel services, Lutheran High Sundays, tour performances, and any other performances if given at least one month's notice.

MUSIC APPRECIATION (MU 150)	Elective	Credit	9	10	11	12
Prerequisite: Department Approval	_	1.0	X	X	Х	X

Music appreciation provides instruction in basic music theory and instruments, traces the development and growth of several forms of music, and gives students a foundation to appreciate music more fully. Students will be exposed to several genres of music in the world around them and discover how they experience music. Students will learn the names and backgrounds of several famous musical composers and their contribution to their particular genre.

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RED KNIGHT BAND (MU 120/125)	lective	Credit	9	10	11	12
Prerequisite: Department Approval	_	2.0	Х	Х	Х	X

Red Knight Band is designed for students with little or no experience in a concert band setting. Emphasis is placed on reading music, rhythms, notes, and how music is put together. The band performs at concerts throughout the year. Successful completion of this course will result in the student being ready for Concert Band (MU130). Students can choose flute, clarinet, saxophone, trumpet, or trombone.

DRUM LINE (MU 130/135) Elective	Elective	Credit	9	10	11	12
Prerequisite: Department Approval	_	2.0	Х	X	Х	X

Through the introduction of reading music notation, rhythms, and sticking patterns, students will learn how to play drumline music for snare drum, bass drum, quads, and cymbals. Availability at performances including basketball games, football games, and band concerts is required.

	Elective	Credit	9	10	11	12
Prerequisite: Department Approval		2.0	Х	Х	Х	X

A \$10.00 uniform rental is required and a \$25.00 fee for percussionists.

Through rehearsal and performance of basic music skills, the student has the opportunity to broaden his appreciation and understanding of all types of music and skills required to perform in musical organizations. Emphasis is placed upon developing enough skill on the individual instruments to perform at an average high school level. Exercises in technique, dynamics, articulation, and tone production are used every day in preparation for improving skills. The band performs during marching season at football games, parades, and various community and statewide events. During the concert season, the band performs at three major concerts, various music contests, and community events.

	Elective	Credit	9	10	11	12
Prerequisite: Department Approval	_	2.0	Х	Х	Х	X

This ensemble is meant for those with some prior experience in strings. Emphasis will be placed on individual improvement in technique, music reading, rhythms, notes, and playing as a group. The ensemble will perform at concerts throughout the year. Students will be able to initially choose from violin and cello with the opportunity to shift to viola and double bass later.

SYMPHONIC BAND (MU 320/325)	Elective	Credit	9	10	11	12
Prerequisite: Audition, Department Approval		2.0	X	Х	Х	X

A \$10.00 uniform rental is required and a \$25.00 fee for percussionists.

Through rehearsal and performance of superior music skills, the student has the opportunity to excel and expand his knowledge and appreciation of all types and varieties of music. Emphasis is placed on different styles of music and different skills involved in the performance of these styles of music. Exercises in technique, dynamics, and articulation are used every day in preparation for

performance of difficult music. The band performs during the marching season at football games, parades, and various community and statewide events. During the concert season, the band performs at three major concerts, various music competitions, and community events.

JOYFUL NOISE (MU 510)	Elective	Credit	9	10	11	12
Prerequisite: Audition		1.0	Х	Х	Х	Х

Joyful Noise is a student-led worship band that will perform regularly for chapel and other school-sponsored events. This auditionbased course will examine worship arts, music composition, current music software and technologies, and performance. Emphasis will be on both performance and examination of lyrical/structural content.

PHYSICAL EDUCATION

4 Credits Required

Fl	RESHMAN GIRL'S PHYSICAL EDUCATION (PE 110)	Required	Cre

Required	Credit	9	10	11	12
	1.0	X			

The emphasis in girl's physical education on the freshman level is on weight training, fitness, team building through the use of the ropes course, and the fundamentals of physical education as learned through participation in mostly individual sports.

FRESHMAN BOY'S PHYSICAL EDUCATION (PE 120)	Required	Credit	9	10	11	12
		1.0	X			

The emphasis in boy's physical education on the freshman level is on weight training, fitness, team building through the use of the ropes course, and the fundamentals of physical education as learned through participation in mostly individual sports.

BEGINNING SWIM (PE 230)	Elective	Credit	9	10	11	12
Prerequisite: PE 110/120	_	1.0		X	X	X

This class is intended for the new swimmer who wants to learn how to swim. Red Cross levels 1 through 3 will be emphasized along with snorkeling. Skills will focus on strokes, kicks, turning, floating, and treading water.

HEALTH (PE 240)	Elective	Credit				
Fre		1.0	Х	X	X	X

This class is meant to teach students ways to make healthy decisions in all areas of their lives. The behavioral, mental, emotional and spiritual welfare of teenagers will be focused on in areas like managing stress, mental and emotional problems, healthy relationships, resolving conflicts, nutrition and weight control, alcohol, and drugs, and sexually transmitted diseases.

LIFETIME AND OUTDOOR ACTIVITIES (PE 250)	Elective	Credit	9	10	11	12
Prerequisite: PE 110/120		1.0		X	Х	X

This class will focus on activities that can be done throughout your lifetime and various outdoor activities. Activities may include but are not limited to, walking, jogging, golf, archery, volleyball, badminton, rock climbing, and the high ropes challenge course.

GIRLS BEGINNING STRENGTH AND CONDITIONING (PE 260)	Elective	Credit	9	10	11	12
Prerequisite: PE 110/120	_	1.0		Х	Х	X

This class is geared toward students interested in personalized weight lifting goals or lifting for strength and speed for athletics. The majority of class time will be spent in the weight room. Cardiovascular and speed training will balance time spent strength training. Traditional sports will be played occasion.

BOYS BEGINNING STRENGTH AND CONDITIONING (PE 265)	Elective	Credit	9	10	11	12
Prerequisite: PE 110/120	_	1.0		X	X	X

This class is geared toward students interested in personalized weight lifting goals or lifting for strength and speed for athletics. The majority of class time will be spent in the weight room. Cardiovascular and speed training will balance time spent strength training. Traditional sports will be played occasion.

TEAM SPORTS I (PE 270) Election	ve Credit	9	10	11	12
Prerequisite: PE 110/120	1.0		X	X	X

This course will feature traditional units such as flag football, soccer, volleyball, eclipse ball, floor hockey, badminton, water polo, and team handball. The class is geared toward students who enjoy the competitive nature of team sports and the opportunity to learn the value of teamwork and responsibility.

ADVANCED SWIM (PE 330)	Elective	Credit	9	10	11	12
Prerequisite: PE 230 or Department Approval	-	1.0		X	X	X

This class is intended for the advanced swimmer who wants to improve upon his or her skills learned in Beginning Swim. Red Cross levels 4 through 6, fitness swimming, and timed strokes for improvement will be emphasized.

	Elective	Credit	9	10	11	12
Prerequisite: PE 110/120		1.0		Х	X	X

This class will focus on activities that involve individual awareness. Activities may include but are not limited to dance-where you will have to come up with a dance routine, self-defense, walking, yoga/relaxation, bowling, water aerobics, badminton, golf, and a variety of fitness activities. This is a class for those students who may not like the team sports and large group games.

ADVANCED STRENGTH AND CONDITIONING (PE 360)	Elective	Credit	9	10	11	12
Prerequisite: PE 260 or Department Approval	-	1.0		Х	X	X

This class is offered for varsity and junior varsity athletes who are training specifically for their particular sports both in and out of season. Curriculum for this course is developed with input from the varsity coaches.

TEAM SPORTS II (PE 370)	Elective	Credit	9	10	11	12
Prerequisite: PE 270		1.0			Х	X

This course will give students an opportunity to focus and expand on the units previously played in Team Sports I. Students will have the ability to choose activities for participation along with forming teams and self-referring games.

PHYSICAL EDUCATION LEADERSHIP (PE 400/410)	Elective	Credit	9	10	11	12
Prerequisite: Department Approval	_	1.0			X	X

This course is designed to equip the student with the skills of leadership through Physical Education. Students will work on peer leadership by assisting the PE instructor with PE I or elective courses as necessary. This course may be taken in place of a PE elective when three previous semesters have been successfully completed. (*Limited Enrollment*)

	Elective	Credit	9	10	11	12
Prerequisite: 3.0 Cumulative GPA, Must Carry 16 Credits during the	_	1.0	Х	Х	Х	X

School year, Department Approval, Fee of \$175

Summer P.E. is a course designed to accommodate students who are not able to schedule all the classes they need or want in their schedule. This course is also only available to high achieving students. Students are expected to complete and document 60 hours

of physical activity. The log/folders and mandatory evaluation days scheduled throughout the summer is the basis for assessment. (*Limited Enrollment*)

RELIGION S Credits Required

FRESHMAN RELIGION (RE 110/115)	Required	Credit	
	_	2.0	
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This course pursues a chronological study of the Old Testament. There is a clear emphasis on Christian Worldview, and support for the reliability and infallibility of the Bible right from creation. The faith and lives of the people of the O.T. are studied to provide the student with a deeper understanding of their own day-to-day relationship with God. Special emphasis is placed on the Messianic prophesies and their fulfillment in Jesus Christ.

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SOPHOMORE RELIGION (RE 210/215)	Required	Credit	9	10	11	12
	_	2.0		X		
This course focuses on the life of Christ as portrayed in the four Gospels with an emphasis on its impact on the personal life of the					the	

student. Time is also spent on understanding the Church as God's mission as shown in the book of Acts and helping the student to understand the Church and themselves in light of the Christian past.

JUNIOR RELIGION (RE 310/315)	Required	Credit	9	10	11	12
		2.0			X	

This course centers on the deep truths taught in the book of Romans. There is a focus on the Holy Spirit with His power to change our lives that are poured out through the pure power of the Gospel. Time is also spent dealing with practical challenges of Christian living presented in Paul's letter of 1 Corinthians. Proper scripture interpretation principles and support for the authenticity and faithfulness of the Bible are taught. Students engage in praying, sharing and confidently defending their faith against the wickedness of the World.

SENIOR RELIGION (RE 410/415)	Required	Credit	9	10	11	12
	_	2.0				X

This course helps seniors explain why Christianity is true as well as helping students grasp the various worldviews that permeate our culture. It analyzes different understandings of truth, reality, and how people should live. The course also includes a systematic study of James through Revelation, emphasizing relevant issues and current events that relate to these books. There is also careful preparation of students getting ready for the challenges of college.

MARRIAGE & FAMILY RELATIONSHIPS (RE 420)	Elective	Credit	9	10	11	12	
	_	1.0				Х	
This course covers a Christian understanding of the value of marriage in the culture of A		ty. The cou	rse is o				

This course covers a Christian understanding of the value of marriage in the culture of American society. The course is designed for students to see why God's design for marriage is best for the individual, couple, family and society. Class work and discussion are designed to give a basic understanding of personal relationships, communication skills, the importance of faith, finances and parenting within a Christian marriage.

SCIENCE

6 Credits Required

Science course selection can be constructed in the following manner:

FRESHMEN		SOPHOMORE		JUNIOR		SENIOR
Physical/Life Science	⇒	Biology	⇒	Earth in Space/The Dynamic Earth, Chemistry, <i>or</i> Physics	⇒	Earth in Space/The Dynamic Earth, Chemistry, <i>or</i> Physics
Biology	⇒	Chemistry	⇒	Physics <i>or</i> Science Electives	⇒	Science Electives, Honors, or A.P. Physics

Required	Credit	9	10	11	12
_	2.0	X			
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This course is designed to give a well-rounded understanding of the basic principles and processes in each of the major fields of science. Special emphasis will be placed on the skills necessary for the effective study of science such as: measurement, metric system, graphing, microscopy, scientific method, basic laboratory skills, data interpretation and writing the laboratory report.

	Required	Credit	9	10	11	12
Prerequisite: Concurrently taking MA 160/165 or higher	_	2.0	Х	X	X	X

The course will cover all major fields in biology; the units of study include botany, cytology, genetics, bioethics, human anatomy and physiology, creation and evolution, and zoology. The course is taught from a creation perspective. A variety of learning strategies is utilized including lecture, reading, independent research, video and computer presentation and an extensive use of hands on laboratory investigations.

	Elective	Credit	9	10	11	12
Prerequisite: SC 210/215 and MA 160/165 or higher		1.0		X	Х	X

Students will investigate the nature of Earth Science and inquiry, ecology, astronomy, time, seasons, mapping, and meteorology. Teaching methodologies include lecture, video presentation and laboratory investigation.

THE DYNAMIC EARTH (SC 320)	Elective	Credit	9	10	11	12
Prerequisite: SC 210/215 and MA 160/165 or higher	-	1.0		X	X	X

Students will investigate topography, watersheds, geology, plate tectonics, volcanoes, and earthquakes. Teaching methodologies include lecture, video presentation and laboratory investigation.

CHEMISTRY (SC 330/335)	Elective	Credit	9	10	11	12
Prerequisite: SC 210/215 and concurrently taking MA 210/215 or higher	_	2.0		X	X	X

Students in chemistry study the composition of matter and its changes. This includes the structure of the atom, chemical bonding, chemical reactions, and the states of matter. The skills and techniques of laboratory investigation, observation and analysis are emphasized.

PHYSICS (SC 350/355)	Elective	Credit	9	10	11	12
Prerequisite: SC 210/215 and concurrently taking MA 210/215 or higher		2.0		X	Х	X

Students in this course will study in the following areas: mechanics, thermodynamics, wave motion phenomena and its relation to sound and light, electricity, modern physics. Lab work is required.

INTRODUCTION TO FORENSIC SCIENCE (SC 360)	Elective	Credit	9	10	11	12
Prerequisite: SC 210/215	_	1.0			Х	X

Students will learn the methodology needed to evaluate a crime scene, the proper lab mechanics needed to evaluate evidence, and how to compare between a known and unknown. Students will learn how DNA, fingerprinting, and other forensic tests can be used to solve a crime. The learning strategies used will include lecture, labs, research, activities, and videos.

SUSTAINABLE AGRICULTURE (SC 370)	Elective	Credit	9	10	11	12
Prerequisite: SC 210/215		1.0			Х	X

We all eat food. Where does it come from? How can the world be fed? How can we grow produce in an urban environment? Learn about sustainable agriculture and join the growing trend of urban agriculture. Students will learn about gardening, the farm-to-table food movement, and raising animals.

HONORS ANATOMY AND PHYSIOLOGY (SC 400)	Elective	Credit	9	10	11	12
Prerequisite: Department Honors Application, SC 210, and has taken or	-	1.0			X	X

is concurrently taking SC 330 and SC 350.

Students will build on information learned in biology and focus specifically on human anatomy and physiology. Through lecture, lab, and activities, students will review human anatomy and increase their knowledge in how the human body works. They will learn language of anatomy and increase knowledge of the chemical, cellular, and tissue level of organisms before beginning some body systems. This course is beneficial for those taking anatomy in college. *(Limited enrollment.)*

	Elective	Credit	9	10	11	12
Prerequisite: Department Honors Application, SC 210, and has taken or	_	1.0			X	X

is concurrently taking SC 330 and SC 350.

Microbiology and Gross Biology are mirrored after college-level General Biology 1 and 2. It would be best to take them in succession to get the full college prep experience. Microbiology will focus on the scientific method, biochemistry, cells, enzymes and metabolism. *(Limited enrollment.)*

HONORS GROSS BIOLOGY (SC 420)	Elective	Credit	9	10	11	12
Prerequisite: Department Honors Application, SC 210, and has taken or	_	1.0			X	X

is concurrently taking SC 330 and SC 350.

Microbiology and Gross Biology are mirrored after college-level General Biology 1 and 2. It would be best to take them in succession to get the full college prep experience. Gross Biology will focus on classification and taxonomy, body systems, creation and evolution, and genetics. *(Limited enrollment.)*

HONORS INORGANIC CHEMISTRY (SC 430)	Elective	Credit	9	10	11	12
Prerequisite: Department Honors Application, SC 330, and has taken or		1.0			X	X

is concurrently taking SC 350.

This Honors course is an individually structured course with extensive emphasis on laboratory work. Laboratory work includes quantitative analysis, chemical synthesis, and other experiments. An overview of general chemistry concepts and problems is also discussed. *(Limited enrollment.)*

HONORS ORGANIC CHEMISTRY (SC 440)	Elective	Credit	9	10	11	12
Prerequisite: Department Honors Application, SC 330, and has taken or	_	1.0			X	X

is concurrently taking SC 350.

This Honors course is an individually structured course with extensive emphasis on laboratory work. Laboratory work includes an introduction to organic chemistry lab techniques and preparations, qualitative analysis, and other experiments. An overview of general chemistry concepts and problems is also discussed. *(Limited enrollment.)*

A.P. PHYSICS 1 (SC 550/555)
Prerequisite: Department Honors Application, SC350, & MA 350 or higher

Elective	Credit	9	10	11	12
_	2.0			Х	Х

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This Advanced Placement (A.P.) course will offer a year of physics study for the upper level science student. Through challenging content, each student will experience a semester of material from a trigonometry-based mechanics course at a college level. Content will include mechanics, electric circuits, and waves and sound. Lab work and extensive daily study time will be required. It is intended for students who are pursuing a science field for a career and/or wish to attempt to earn college credit and/or higher placement from a college or university by scoring appropriately on the A.P. Physics 1 exam. The student is expected to take the A.P. Physics Exam in May. (*Limited enrollment.*)

SOCIAL STUDIES 6 Credits Required

Social Studies course selection can be constructed in the following manner:									
FRESHMEN		SOPHOMORE		JUNIOR		SE	NIOR		
Geography/Civics	⇒	US History I/II	\Rightarrow	Social Studies Electives	⇒ Soci	> Social Studies Electiv			es
GEOGRAPHY (SS 110)				Require	ed Credit	9	10	11	12
					1.0	X			

This course will give students an understanding of World Geography and the socioeconomic and political culture of various countries around the world. The course will involve a good deal of experiential learning and real-life simulations.

CIVICS (SS 120)	Required	Credit	9	10	11	12
	_	1.0	X			

This course will provide a basic overview of the American systems of Government and Economics. Students will learn about the foundations of our political and economic systems, how our government and economies function, major concepts in each system and the role of citizens in both. Students will also spend some time learning and discussing current events. The course will involve a good deal of experiential learning and real-life simulations.

U.S. HISTORY I & II (SS 310/SS 315)	Required	Credit	9	10	11	12
		2.0		Х		

U.S. History I and II are semester length survey courses covering the history of our nation from Pre-1492 to the present time. This course will be taught thematically, meaning that topics will be covered instead of chronologically. The course will help the student understand what it means to be an American by studying our past, traditions and national experiences. Topics covered in U.S. History I are government, culture, reforms, and economics. Topics covered in U.S. History II are expansion, depression/recovery, foreign policy and domestic policy.

EUROPEAN HISTORY (SS 340)	Elective	Credit	9	10	11	12
Prerequisite: SS 110/120 AND SS310/315	-	1.0			X	X

European History is an upper-level course (junior/senior) that takes a global approach to world events from the fall of the Roman Empire through the end of the Cold War. We examine how social, political, economic, environmental, and religious factors shaped European thought and action, both on the European continent and around the globe. Emphasis is also placed on how interactions between Europeans and other countries/ethnic groups created conflicts that the world still seeks to resolve.

ANCIENT CIVILIZATIONS (SS 350)	Elective	Credit	9	10	11	12
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Prerequisite: SS 110/120 AND SS310/315	1.0		X	X
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Ancient Civilizations is an upper-level course (junior/senior) that examines why civilizations rise and fall. This course requires students to identify the core elements needed to build and sustain a civilization and analyze what happens when social, political, economic, or environmental conditions shift. The course takes a deeper look at civilizations and empires across the ancient world, including Mesopotamia, Africa, India, China, Greece, Rome, and Mesoamerica. Emphasis is also placed on how current conditions in these places were influenced by their past successes and failures.

AFRICAN AMERICAN HISTORY (SS 360)	Elective	Credit	9	10	11	12
Prerequisite: SS 110/120 AND SS310/315	_	1.0			X	X

African American history is a semester length course that will specifically explore and analyze the experience of African Americans within the broader scope of American history. Beginning with a general history of Africa, this course will proceed chronologically through the present day. Students will learn about notable events, people, and places, with additional in-depth discussions of art, literature, music, and general evolution of African American culture over several hundred years. This course is designed to provide students with a more comprehensive understanding and appreciation for the history of African Americans."

SOCIOLOGY (SS 410)	Elective	Credit	9	10	11	12
Prerequisite: SS 110/120 AND SS310/315	_	1.0			X	X

Sociology offers a perspective, or a view of the world. Students taking this course will learn about the culture we live in, as well as different cultures from around the globe. Students will study how cultures influence people, and why societies do the things that they do. Various topics will be presented including racism, immigration, stereotypes, and the topic of church vs. state. Students will also discuss what makes something right or wrong, how stereotypes affect society, and what role a person's race, age, gender, or economic status plays in how they are treated by society. The study of Sociology helps us understand our society and why people might behave as they do. Assignments include in-class articles and reading assignments, as well as issue papers and class participation.

PSYCHOLOGY (SS 420)	Elective	Credit	9	10	11	12
Prerequisite: SS 110/120 AND SS310/315		1.0			Х	X

The purpose of this course is to evaluate from a Christian perspective how psychology may be used to explain, predict, control, and improve human behavior. Students will gain a better understanding of chronological development; of how humans think, perceive, and learn; of how normality and deviancy are culturally defined; and of the biological and adaptive basis of behavior.

2001001100 (00 100)	Elective	Credit	9	10	11	12
Prerequisite: SS 110/120 AND SS310/315		1.0			X	X

This course covers the basic concepts of economics: scarcity, the market system, business and its organization, production, supply and demand, money banking, the business cycle, government involvement, competition, and trade. Varying viewpoints to current problems are presented, and opportunity is provided to practice economic skills. Audio-visual aids supplement the textual and classroom presentations.

GOVERNMENT (SS 440) Prerequisite: SS 110/120 AND SS310/315	Elective	Credit	9	10	11	12
		1.0			X	X

This course deals with the basic ideal of political behavior and the operation of American government. It includes such topics as political influence, citizen participation, political parties, the role of the President, and the decision-making process. Brief stories and case studies are used to capture the vitality and drama of politics. Simulations, games, surveys, and films are also used. Students will be encouraged to participate in real-life politics.

CONTEMPORARY ISSUES (SS 450)	Elective	Credit	9	10	11	12
Prerequisite: SS 110/120 AND SS310/315		1.0			Х	X

The understanding of current events of our present society will make it much easier for our students to perceive the trends that will influence their lives tomorrow. This course thoroughly covers the issues and trends (economic, racial, religious, governmental, etc.) displayed in the media and other forms of information. Students actively participate in discussions, projects, cooperative teams, and problem solving activities as they relate to current course content.

A.P. WORLD HISTORY (SS 500/505)	Elective	Credit	9	10	11	12
Prerequisite: Department Approval	_	2.0			X	X

This Advanced Placement course will offer an intensive, college level study of the world (1500 BC to Present) for the upper level social studies student. Students will experience college level topics and material in World History through a rigorous and challenging curriculum. The course is intended for students who are pursuing a career in the field of social sciences and/or desire to attempt to earn college credit and/or placement from a college by scoring appropriately on the AP examination given annually in May. (Limited enrollment)

	Elective	Credit	9	10	11	12
Prerequisite: Department Approval	-	2.0		X	X	X

This Advanced Placement (A.P.) course will offer an intensive, college level study of United States history for the upper level social studies student. Students will experience college level topics and material in American history through a rigorous and challenging curriculum. The course is intended for students who are pursuing a career in the field of social sciences and/or desire to attempt to earn college credit and/or placement from a college by scoring appropriately on the A.P. examination given annually in May. *(Limited enrollment.)*

TECHNICAL EDUCATION

Technical Educat	tion co	ourse selection can b	e cons	structed as follows:		
FRESHMEN		SOPHOMORE		JUNIOR		SENIOR
Intro to Technical Education	⇒	Technical Education Electives	⇒	Technical Education Electives	⇒	Advanced Tech Ed Electives / Industry Internships
Introduction to Engineering	⇒	Engineering Machine Design	⇒	Robotics, Computer Aided Design (CAD), Electronics	⇒	Robotics, Computer Aided Design (CAD), Electronics

INTRODUCTION TO TECHNICAL EDUCATION (TE 110)	Elective	Credit	9	10	11	12
	-	1.0	X	X	Х	X

This semester course is designed to teach the student life-skills in the use of hand and power equipment. Through the construction of various projects, the student will learn tool safety skills, measurement, quality control, and production.

INTRODUCTION TO ENGINEERING (TE 120)	Elective	Credit	9	10	11	12		
	-	1.0	X	X	Х	Х		

This course will allow students to learn who engineers are and what they do. Students will learn how to use Computer Aided Drafting (CAD) software to design a variety of parts and assemblies. Students will use different scenarios to learn to apply the engineering problem solving process.

ARCHITECTURAL DESIGN (TE 210) Prerequisite: TE 110	Elective	Credit	9	10	11	12
Prerequisite: TE 110	_	1.0		Х	Х	X

This semester course is designed to expose students to the fields of architecture, interior design, and construction. Topics of study will include architectural styles, Computer Aided Design (CAD), design elements and principles, home layout, building materials, and the construction process.

SMALL ENGINES (TE 220)	Elective	Credit	9	10	11	12
Prerequisite: TE 110 or TE120		1.0		X	Х	X

Students will learn key mechanical concepts to service lawn mowers, power washes, and more. This course will provide students with a working knowledge of basic small engine repair to understand different components of engines and how they work together. Students will learn basic operation of engines and be able to identify and troubleshoot parts of engines. The course ends with a capstone project of disassembling and reassembling an engine, including a test for functionality.

WOODWORKING (TE 230)	Elective	Credit	9	10	11	12
Prerequisite: TE 110	_	1.0		X	Х	X

This course is designed to build on the fundamental skills developed in fabrication and assembly. Students will learn to use additional tools, machinery, and techniques to build more complex projects. Students will also learn to develop, design, plan, and estimate projects and how to set up and maintain shop equipment. Students will learn to incorporate CNC manufacturing into their projects. *(Materials fee: \$60+ cost of third project)*

	Elective	Credit	9	10	11	12
Prerequisite: TE 110		1.0		X	X	Х

Students will learn the fundamentals of metal working while looking at cutting, forming, and the joining of metal materials. Students will also learn some blueprint reading, the identification of symbols, and welding theory culminating with a capstone project which encompasses the different skills acquired throughout the semester.

ENGINEERING MACHINE DESIGN (TE 250) Elective	Elective	Credit	9	10	11	12
Prerequisite: TE 120		1.0		X	X	X

Students will learn and apply concepts related to simple machines, pulleys, gears, springs, and other mechanical devices to build complex problem-solving machines. Examples of potential projects include catapult design and Rube Goldberg machines.

COMPUTER AIDED DESIGN (TE 260)	Elective	Credit	9	10	11	12
Prerequisite: TE 110 OR TE 120		1.0		X	Х	X

Students will expand on the introduction to CAD from Introduction to Engineering to investigate the subject in more depth. Areas of study will include assemblies, animations, engineering drawings, and blueprint reading. Additional emphasis will be placed on the relationship between design and manufacturing.

	Elective	Credit	9	10	11	12
Prerequisite: TE110		1.0		Х	X	X

Students will learn the basic fundamentals of metal machining. Students will have the opportunity to learn the operations of a manual lathe and knee mill. Students will also learn the basic operations of programming and operating a CNC mill. The skill sand machine operations taught in this course are the foundation for anyone who has either a hobby or career interest in a metal shop.

BUILDING TRADES (TE 310)	Elective	Credit	9	10	11	12
Prerequisite: TE 110 & TE 210	-	1.0			X	X

This course is designed for students to survey various building trades and develop the skills necessary to pursue a career in the construction industry. Trades explored in this class include electrical, plumbing, and carpentry among others.

ENGINEERING DESIGN AND ROBOTICS (TE 330)	Elective	Credit	9	10	11	12
Prerequisite: TE 120 & TE 250		1.0			Х	Х

Students will learn how various forms of energy are used in design. Major areas of study will include electrical circuits, hydraulics, pneumatics, solar power, engines, and robotic programming and control.

ELECTRONICS (TE 350)	ELECTRONICS (TE 350) Elective	Credit	9	10	11	12
Prerequisite: TE 120 & TE 250		1.0			X	Х

This course is designed to expose students to the world of electronics. Students will learn the theory of electric circuits and their many applications. The course will culminate in a capstone group project in electronics.

	Elective	Credit	9	10	11	12
Prerequisite:		1.0			Х	X

Students in Pre-Apprentice will explore career opportunities in the industrial fields of manufacturing and construction. Students will also participate in activities and discussions to develop career success skills and develop a plan for vocational success.

TECHNICAL EDUCATION INDEPENDENT STUDY (TE 410)	Elective	Credit	9	10	11	12
Prerequisite: Department Approval	-	1.0			X	X

Students will work alone or in small groups of other Independent Study students on a variety of enrichment projects. Projects will vary based on the content group of courses completed prior to independent study. Students are eligible if they have completed all courses in a content group (Home Design, Woodworking, or Engineering Design).

TRANSITION EDUCATION

Students who participate in these courses will have demonstrated a need for a modified curriculum. Transition courses in English, Mathematics, Science, and Social Studies are offered on a rotating basis.



BASIC ENGLISH (EN 900)	Credit	9	10	11	12
Next Offered: 2023-2024	2.0	X	X		

Prerequisite: Department Approval

This course for students in Grades 9 and 10 will reinforce and improve the students' knowledge and use of grammar, vocabulary, and parts of speech. Students will learn how to correctly write simple, complex, and compound sentences. They will also learn to write and revise paragraphs that inform, persuade, or tell a story. Additionally, students will explore business and personal writing.

FUNDAMENTAL WORLD LITERATURE (EN 910)	Credit	9	10	11	12
Next Offered: 2022-2023, 2024-2025	2.0	Х	Х		
Prerequisite: Department Approval					

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This course will enhance students' understanding of literature through exposure to various genres from around the world. Additionally, word attack and comprehension skills will be enhanced as students study short works of fiction, nonfiction, drama, poetry, persuasive literature and humorous literature.

PRACTICAL ENGLISH (EN 930)	Credit	9	10	11	12
Next Offered: 2022-2023, 2024-2025	2.0			Х	X

Prerequisite: Department Approval

This course offers students the opportunity to learn life-skills applications of the English language. Through skill-based lessons, vocabulary, and frequent practice and review, students will be able to make the important connection between basic English skills and their own lives. Topics include: shopping, communicating in the workplace, English for independent living, citizenship, health and safety, recreation and personal expression.

PRINCIPLES OF COMMUNICATION (EN 950)	Credit	9	10	11	12
Next Offered: 2023-2024	2.0			Х	X

Prerequisite: Department Approval

Semester 1 of this course offers thorough instruction in the fundamentals of writing sentences and paragraphs and leads to learning to write for various academic and life purposes. In the second semester, in addition to continuing instruction about writing for different purposes, students will explore formal and informal oral communication skills. Through research, writing, and classroom presentations, students will learn about non-verbal communication; group dynamics and communication; listening skills; and communication in the workplace.

MATH

MATH 9, 10 (MA 900, MA 910)	Credit	9	10	11	12
Prerequisite: Department Approval	2.0	Х	Х		

This course is an individualized skill development course in basic math calculations. Students will work at an individual pace to master basic mathematical operations. Those that finish the 150 objective Accelerated Math program will be prepared for Pre-Algebra. Students who have struggled in other math courses may use this course to hone up on skills they are lacking in order to gain math competency.

LIFETIME MATH 11, 12 (MA 920, MA 930)	Credit	9	10	11	12
Prerequisite: Department Approval	2.0			Х	X

This course is an individualized skill development course in basic math calculations and real-life mathematical skills. Students in these classes will continue to develop their math computation and processing skills as well as learn to apply those skills in real life situations.



*Transition students are placed in Physical Science and Life Science (regular course offerings) as freshmen.

GENERAL SCIENCE (SC 900)	
Next Offered: 2022-2023, 2024-2025	

Credit	9	10	11	12
2.0		Х	Х	X

Prerequisite: Department Approval

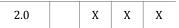
This course is designed to give a well-rounded understanding of basic physical science principles and explore various fields of science using materials at a reading level that promotes success for students who struggle in reading and/or math. A variety of learning strategies are utilized to enhance this science experience.

FUNDAMENTAL BIOLOGY (SC 910/915)	Credit	9	10	
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Next Offered: 2023-2024



Prerequisite: Department Approval

This course is designed to give a well-rounded understanding of basic biology principles using material at a reading level that promotes success for students who struggle in reading and/or math. A variety of learning strategies are utilized to enhance this science experience.

SOCIAL STUDIES

INTRODUCTION TO WORLD COMMUNITIES (SS 900)	Credit	9	10	11	12
Next Offered: 2023-2024	2.0	Х	Х	Х	X

Prerequisite: Department Approval

This course is designed to give a well-rounded understanding of communities in various parts of the world, which may include Africa, Asia, Europe, North America and South America using materials at a reading level that promotes success for students who struggle in reading. A variety of learning strategies are utilized to enhance this experience.

FOUNDATIONS OF U.S. HISTORY 1 & 2 (SS 910 & SS920)	Credit	9	10	11	12
Next Offered: 2024-2025	2.0	X	Х	X	X

Prerequisite: Department Approval

This course is designed to give a well-rounded understanding of the development of the United States using a textbook that is at a reading level that promotes success for students who struggle in reading. A variety of learning strategies are utilized to enhance this history experience.

BASIC ECONOMICS (SS 930)	Credit	9	10	11	12
Next Offered: 2022-2023	1.0	Х	Х	X	X

Prerequisite: Department Approval

This course covers the basic concepts of economics including: production, supply, demand, money, banking systems and the stock market. Materials and activities used in this course are at a reading level that promotes success for students who struggle in reading. A variety of learning strategies are utilized to enhance this experience in economics.

FOUNDATIONS OF GOVERNMENT (SS 940)	Credit	9	10	11	12
Next Offered: 2022-2023	1.0	Х	X	X	X

Prerequisite: Department Approval

This course deals with the basic ideals of political behavior and the operation of American government. It includes topics such as political parties, the role of the president, citizenship and the decision making process. The textbook that is used is at a reading level that promotes success for students who struggle in reading. A variety of learning strategies are utilized to enhance this topic.