

MARTIN LUTHER HIGH SCHOOL



Course Catalog 2024-2025

www.martinlutherhs.org

MARTIN LUTHER HIGH SCHOOL

2024-2025 COURSE CATALOG

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Martin Luther High School
 5201 S. 76th Street • Greendale, WI 53129
 414-421-4000
www.martinlutherhs.org

FACULTY & ADMINISTRATION

| | |
|---------------------------------------|-------------------------|
| Principal | Dr. Wayne E. Jensen |
| Assistant Principal | Mrs. Erin Janetzke |
| Athletic Director | Mr. Corey Scheel |
| Dean of Students | Mr. Paul Wollersheim |
| School Counselor | Mr. Kirk Langenkamp |
| School Counselor | Mrs. Caralee Hammerling |
| Director of Enrollment | Ms. Abbie Amling |
| Choice Program Coordinator | Mrs. Jennifer Manske |
| World Cultures Program Director | Mr. Seth Bahr |

Mr. Tim Bahr Mathematics
 Mr. Mark Baker Industiral Arts
 Mr. Ben Bedroske Music
 Ms. Lindsey Bollmann Physical Education
 Mrs. Abby Brown English
 Mr. Thomas Brown English
 Mr. David Enters Social Studies
 Ms. Becky Ernst Social Studies
 Mr. David Gottschalk Science
 Mrs. Carri Halstead World Languages
 Mrs. Karen Hartlaub Mathematics
 Mr. Chris Hathaway Science
 Mrs. Danielle Hawkins Special Education
 Mrs. Monica Herbig Family & Consumer Education*
 Mr. Rick Hoppert Physical Education
 Mr. Chad Janetzke Theology*
 Mrs. Kelsey Jensen Science
 Mrs. Lisa Kamprath English
 Mr. Steve Karner Art*
 Mrs. Jackie Kilgas Mathematics
 Mrs. Jessica Kindschi Walter Music*
 Ms. Jennifer Knox Business/Technology
 Mr. Paul Kollmorgen World Languages*

Mrs. Riitta Kulinski Digital Arts
 Mr. Steve Kutcher Student Center
 Mr. Bob Leissring Theology
 Mr. Brian Lerret Mathematics
 Mr. Michael Loveless Social Studies*
 Mr. Jason Moesch Mathematics*
 Mrs. Greta Moore Science*
 Mr. Scott Nickel English*
 Rev. Scott Niermann Theology
 Ms. Brittany Pevey Academic Resource
 Mr. Chris Pfaller Science
 Mrs. Haley Raymond Family/Consumer Education
 Mrs. Joleen Reh Social Studies/Theology
 Mr. Bennett Reisler Theology
 Mr. Dax Rodriguez Social Studies
 Mr. Tony Romano Physical Education*
 Mr. Arik Rosengren Power Technologies*
 Mrs. Angela Scaffidi Elementary Band
 Ms. Megan Schoenleb English
 Ms. Rachel Wenndt English
 Dr. Trish Wouters World Cultures/ELL*
 Mrs. Qiong Yang World Languages

**Department Head*

ACADEMIC PROGRAM

The Triune God – The Father as Creator, The Son as Redeemer, and the Holy Spirit as Enabler – is the focus of the curriculum at Martin Luther High School.

We desire that God’s Word and ways touch the life of every student. Participation by all students and teachers in chapel worship, prayer, and homeroom devotions is expected. Every student is required to complete a theology course each semester.

Martin Luther’s academic program is comprehensive. We are determined to meet the individual needs of all students. It is our goal to graduate students who are educated in a variety of disciplines and have mastered basic skills in reading, writing, speaking, listening, mathematics, problem solving, and thinking. Our students are prepared to be life-long learners.

INTRODUCTION

The Martin Luther Course Catalog describes courses to be offered during the 2024-2025 school year.

Course program planning is a joint task among students, parents, and school personnel. Our counselors work closely with students in planning immediate and long-range course programs to best suit high school and post-high school plans.

Every student meets with his/her counselor each year to review academic progress, standardized test results, interests, and future educational and career plans. If students have questions regarding specific courses, they should talk to their teachers and counselors. It should be noted that some courses listed may not be offered due to insufficient enrollment.

ACADEMIC RECOGNITION

The semester GPA is used for determining Honor Roll placement. Students who earn a semester GPA of 3.5 or higher will qualify for the High Honor Roll. A GPA between 3.0 and 3.49 will qualify for Honor Roll.

GRADING SCALE

Martin Luther High School has a school-wide grading scale which is used in all graded classes. Advanced Placement (AP) and Dual Credit classes are given a weighted grade point. A student taking an AP or Dual Credit class receives a one point higher grade point for being in the higher level class.

| | <u>Percentage</u> | <u>Letter Grade</u> | <u>GPA</u> | <u>AP/DC-GPA</u> |
|--|-------------------------------|---------------------|------------|------------------|
| | 92-100 | A | 4.00 | 5.00 |
| | 90-91 | A- | 3.67 | 4.67 |
| | 88-89 | B+ | 3.33 | 4.33 |
| | 82-87 | B | 3.00 | 4.00 |
| | 80-81 | B- | 2.67 | 3.67 |
| | 78-79 | C+ | 2.33 | 3.33 |
| | 72-77 | C | 2.00 | 3.00 |
| | 70-71 | C- | 1.67 | 2.67 |
| | 68-69 | D+ | 1.33 | 2.33 |
| | 62-67 | D | 1.00 | 2.00 |
| | 60-61 | D- | 0.67 | 1.67 |
| | Below 60 <i>(with effort)</i> | E | 0.00 | 0.00 |
| | Below 60 | F | 0.00 | 0.00 |
| | Audit | AU | 0.00 | 0.00 |

GPA

Semester, transfer, and summer school grades count toward a student’s Grade Point Average (GPA). Semester, transfer, and summer school grades will be recorded on the student transcript.

The semester GPA is calculated by dividing the total number of points as shown in the grading scale, by the number of courses taken in the semester.

The cumulative GPA consists of grades from all high school courses taken.

DROPPING CLASSES/INCOMPLETES

Semester 1: Students have until the 10th school day to change courses. Counselor must approve/complete the change.

Semester 2: Students have until the 5th school day to change courses. Counselor must approve/complete the change.

If a student chooses to drop a class after six weeks into a semester (with teacher and counselor approval), a grade of Incomplete (INC) will be given, and no credit earned.

GRADUATION REQUIREMENTS

ML GRADUATION REQUIREMENTS

48 Credits

(1 credit = 1 semester of work)

| | |
|--------------------|------------|
| Theology | 8 credits |
| English | 8 credits |
| Math | 6 credits |
| Science | 6 credits |
| Social Studies | 6 credits |
| Physical Education | 4 credits |
| Electives | 10 credits |

MINIMUM CREDITS REQUIRED

| FRESHMAN <u>14 CREDITS</u> | SOPHOMORE <u>14 CREDITS</u> |
|--------------------------------------|---------------------------------------|
| THEOLOGY 2 | THEOLOGY 2 |
| ENGLISH 2 | ENGLISH 2 |
| MATH 2 | MATH 2 |
| SCIENCE 2 | SCIENCE 2 |
| P.E. 1-2 | SOCIAL STUDIES 2 |
| SOCIAL STUDIES 2 | P.E. 1-2 |
| ELECTIVES 2-3 | ELECTIVES 4-5 |
| | |
| JUNIOR <u>14 CREDITS</u> | SENIOR <u>12-14 CREDITS</u> |
| THEOLOGY 2 | THEOLOGY 2 |
| ENGLISH 2 | ENGLISH 2 |
| MATH 2 | *MATH 2 |
| SCIENCE 2 | *SCIENCE 2 |
| SOCIAL STUDIES 1-2 | *SOCIAL STUDIES 1-2 |
| P.E. 1-2 | *P.E. 1-2 |
| ELECTIVES 4-5 | ELECTIVES 2-10 |

**Required if either graduation or college requirements have not been completed in prior grades.*

All coursework must be complete prior to spring graduation. Early graduation is not a regular practice of Martin Luther High School.

The state of Wisconsin also requires the passing of a Civics exam. This exam is usually taken in conjunction with the US History course.

CREDIT LOAD

Students are expected to be enrolled in a minimum of 14 credits per year. (7 credits each semester).

COURSE AUDIT

Students may retake a class for a better grade if they received a D in the class. In that case, they would not receive another credit, but the higher grade would appear on the transcript and is used when determining cumulative GPA.

Students may also audit a class. This is done most frequently when a student desires to become more proficient in a class that he/she may have already passed. An E grade is given when a student's percentage is below 60% but sufficient effort was shown to warrant receiving credit in the class.

ONLINE COURSES

At Martin Luther, we strongly believe that the best learning environment is in the classroom. We are equipped with a wonderful staff of well-qualified teachers to help students become successful on an academic, social, and spiritual level. Martin Luther does offer the opportunity to take classes online through Brigham Young University or Grand Canyon University. Since online courses do not offer the numerous benefits that can be obtained in our classrooms, online courses may only be taken for credit recovery or to help fulfill graduation requirements for students with scheduling conflicts.

Students interested in enrolling in an online class for credit recovery or graduation requirements must speak with their school counselor and complete the appropriate paperwork for approval before enrolling in the class. Online course approval paperwork can be found on the Martin Luther website or in the Student Services Office.

SERVICE GRADUATION REQUIREMENT

Serving others is commanded by God and gives Him glory. Prior to graduation, each student will be expected to have completed 60 total credits of volunteer service (or for transfer students, 15 credits per year for each year s/he has attended Martin Luther High School). Volunteer hours—which are calculated into credits—can be completed at school approved non-profit organizations, events, and other opportunities provided through our school. Credits are submitted and tracked through Schoology.

COLLEGE CREDITS EARNED AT MARTIN LUTHER

ADVANCED PLACEMENT (AP) COURSES

AP Courses give high school students the chance to earn college credit during their high school years. Students should be aware of the prerequisites for these courses as they plan their four years at Martin Luther High School. Department Approval is required for students planning to take an AP course.

Martin Luther High School currently offers eighteen Advanced Placement courses. The College Board subject tests in spring are graded on a 1-5 basis. Students who score a 3, 4, or 5 can receive credit or advanced placement or both, depending on the college.

Information on AP courses and exams may be found at www.collegeboard.com. *Currently the cost of the test is approximately \$94 per subject. Cost is subject to change according to national regulations.*

AP Studio Art

AP Computer Science Principles

AP Computer Science A

AP Music Theory

AP English Literature

AP English Language

AP Research

AP Seminar

AP Calculus AB; BC

AP Biology

AP Chemistry

AP Environmental Science

AP Physics

AP Human Geography

AP Psychology

AP US History

AP World History

DUAL CREDIT COURSES

In partnership with Concordia University–Nebraska (CUNE), Martin Luther offers several dual credit courses. The program allows high school students to earn college credit through CUNE at a reduced cost while taking the approved dual credit class in high school. Dual credit courses operate using a weighted grade point scale. Historically, these course credits have been transferrable with many colleges and universities.

*Note: The college credit is awarded through Concordia University Nebraska (CUNE) after students complete the high school class. Currently the cost per college **credit** is \$90—this is subject to change.*

Martin Luther Dual Credit Courses:

| | |
|----------------|---|
| Mandarin 1 | = CUNE Chinese 101: Beginning Mandarin 1 (3 credits) |
| Mandarin 2 | = CUNE Chinese 102: Beginning Mandarin 2 (3 credits) |
| Mandarin 3 | = CUNE Chinese 201: Intermediate Mandarin 1 (3 credits) |
| Mandarin 4 | = CUNE Chinese 202: Intermediate Mandarin 2 (3 credits) |
| Spanish 2 | = CUNE Spanish 101: Beginning Spanish I (3 credits) |
| Spanish 3 | = CUNE Spanish 102: Beginning Spanish II (3 credits) |
| Spanish 4 | = CUNE Spanish 201: Intermediate Spanish I (3 credits) |
| AP Calculus AB | = CUNE Math 184: Calculus I (4 credits) |
| AP Calculus BC | = CUNE Math 186: Calculus II (4 credits) |
| AP Statistics | = CUNE Math 122: Introduction to Statistics (3 credits) |
| AP Physics | = CUNE PHYS 110: Principles of Physics (4 credits) |
| AP Psychology | = CUNE PSY 101: Introduction to Psychology (3 credits) |
| AP US History | = CUNE HIST 115: U.S. History (3 credits) |

POST-SECONDARY PLANNING

Faculty and staff at Martin Luther High School are committed to helping students find their interests, strengths, and callings beyond their studies at Martin Luther. Whether students hope to continue their education, join the military, start an apprenticeship, or become employed, staff has access to tools that can help guide and support students into their next phase. Programs and tools used by Student Services staff include Junior Achievement, CESA 6, Xello, College Board, ACT, and the Common App.

Martin Luther is now a member of the Wisconsin Youth Apprenticeship Program—Wisconsin’s statewide School-to-Work initiative. It is designed for high school students who want hands-on learning in an occupation at a work-site, along with classroom instruction. This one-year or two-year elective program combines academic and technical instruction with mentored on-the-job-training.

Another program that has recently been introduced at Martin Luther is the Dual Enrollment in collaboration with Milwaukee Area Technical College. Programs include but are not limited to the C.N.A. licensure program in which students would earn both science credit and their C.N.A. license through MATC.

COLLEGE ENTRY REQUIREMENTS

Completion of the requirements for graduation from Martin Luther High School does not necessarily fulfill the requirements for admission to all post-secondary programs. The following information is to be used as a guideline and may change. Current information is available through the Office of Students Services.

UNIVERSITY OF WISCONSIN System Admission Requirements

| | | | |
|----------------------------------|--------------------|---|--------------------|
| <i>English</i> | <i>8 semesters</i> | <i>Social Sciences</i> | <i>6 semesters</i> |
| <i>Math (Algebra and higher)</i> | <i>6 semesters</i> | <i>Elective Credits</i> | <i>4 semesters</i> |
| <i>Science</i> | <i>6 semesters</i> | <i>Elective credits must be from the core college preparatory areas</i> | |

Information about requirements at specific UW schools is available at uwhelp.wisconsin.edu. Both UW-Madison and UW-Eau Claire require 3 years of a single world language to be admitted. UW-Milwaukee and UW-Platteville require 2 years of world language before graduation.

PRIVATE SCHOOLS

Admission to private colleges or universities in Wisconsin and the Midwest generally requires academic preparation comparable to UW schools. However, student records are evaluated on a more individual basis, taking into account ACT scores and letters of recommendation. Check with the Student Services Office for individual school requirements.

TECHNICAL COLLEGE ADMISSION

Technical colleges have open admission policies. Some programs have waiting lists so students should apply early (September of their senior year at the latest) if they are interested in one of the waiting list programs. Technical schools expect a comprehensive high school curriculum to ensure success.

Please be sure to check detailed admission requirements for each school in which you are interested. Requirements may vary from institution to institution.

PLACEMENT TESTING FOR COURSE SCHEDULING

While Martin Luther High School does not use entrance exams to determine Admissions acceptance, all incoming 9th graders take placement tests in English, Math, and Science before their schedules are built. Placement test results are coupled with grade school test scores and teacher recommendations to determine the best academic fit for the student’s course load and credit track.

Theology placement is based upon a student’s previous school and coursework. Some students who are not coming from Lutheran High School Association feeder schools may be asked to take a placement test in Theology to best establish the appropriate course.

Placement tests in Spanish may occur if the counselor and/or family deems a Spanish class appropriate for a Freshman-level schedule.

MATH & SCIENCE COURSE PLANNING GUIDELINES

*FRESHMAN PLACEMENT— As previously referenced, **all** incoming 9th graders will take a placement test in English, Math, and Science to determine best course level placement.

Based upon the results of placement testing, the course tracks for Math and Science are listed below.

MATH

| FRESHMAN | SOPHOMORE | JUNIOR | SENIOR |
|----------------------|--|-----------------------------------|-----------------------------------|
| Algebra | Geometry | Algebra 2 | Advanced Algebra/Trig |
| Accelerated Algebra | Accelerated Geometry | Advanced Algebra/Trig | Pre-Calculus and/or AP Statistics |
| Accelerated Algebra | Accelerated Geometry AND Advanced Algebra/Trig | Pre-Calculus | AP Calculus |
| Accelerated Geometry | Advanced Algebra/Trig | Pre-Calculus and/or AP Statistics | AP Calculus and/or AP Statistics |

SCIENCE

| | FRESHMAN | SOPHOMORE | JUNIOR | SENIOR |
|-------------------------------|------------------|-----------|--|---|
| TECHNICAL OR TRADES | Physical Science | Biology | Earth Science, Astronomy and/or Design & Technology | Earth Science, Astronomy and/or Design & Technology |
| COLLEGE PREP | Physical Science | Biology | Chemistry | Physics |
| ENGINEERING OR PHYSICS | Physical Science | Biology | Physics | AP Physics |
| MEDICAL OR BIOLOGY | Physical Science | Biology | Chemistry | AP Biology AP Chemistry Human Anatomy |
| ACCELERATED PLACEMENT | Biology | Chemistry | Physics Human Anatomy AP Biology AP Chemistry/Env Sci | AP Physics AP Biology Human Anatomy AP Chemistry/Env Sci |

2024-2025

**MARTIN LUTHER HIGH SCHOOL
COURSE GUIDE**

ART

| COURSE | GRADE | CREDITS | |
|-----------------------|------------|---------|---|
| ART FOUNDATIONS | 9-10-11-12 | 1.0 | |
| DRAWING & PAINTING 1 | 9-10-11-12 | 1.0 | <i>Prerequisite: Art Foundations</i> |
| DRAWING & PAINTING 2 | 10-11-12 | 2.0 | <i>Prerequisite: Drawing & Painting I</i> |
| ADVANCED DRAWING | 11-12 | 1.0 | <i>Prerequisite: Drawing & Painting I</i> |
| ADVANCED PAINTING | 11-12 | 1.0 | <i>Prerequisite: Drawing & Painting II</i> |
| CERAMICS 1 | 9-10-11-12 | 1.0 | <i>Prerequisite: Art Foundations</i> |
| CERAMICS 2 | 10-11-12 | 1.0 | <i>Prerequisite: Ceramics 1</i> |
| SCULPTURE | 10-11-12 | 1.0 | <i>Prerequisite: Art Foundations</i> |
| DIGITAL PHOTOGRAPHY 1 | 9-10-11-12 | 1.0 | <i>Must have a digital camera</i> |
| DIGITAL PHOTOGRAPHY 2 | 10-11-12 | 1.0 | <i>Digital Photography 1</i> |
| VIDEO PRODUCTION | 10-11-12 | 1.0 | <i>Prerequisite: Art Foundations</i> |
| FILMMAKING | 11-12 | 1.0 | <i>Video Production is a recommended prerequisite but is not required.</i> |
| YEARBOOK | 10-11-12 | 2.0 | <i>May be taken multiple years for general elective credits</i> |
| GRAPHIC DESIGN 1 | 9-10-11-12 | 1.0 | <i>Prerequisite: Art Foundations <u>or</u> Digital Photography</i> |
| GRAPHIC DESIGN 2 | 11-12 | 1.0 | <i>Prerequisite: Graphic Design 1</i> |
| ML GRAPHICS | 11-12 | 1.0 | <i>Prerequisite: Graphic Design 2</i> |
| AP STUDIO ART | 12 | 2.0 | <i>Prerequisite: All courses in the art department that relate to student's chosen subject.</i> |

ART FOUNDATIONS

9-10-11-12

Art Foundations will explore design through a series of assignments for students to develop creative solutions to challenges based on a series of limitations. Assignments will cover both 2-dimensional and 3-dimensional design for the purpose of exploring how they impact and influence each other. Students will learn to identify the use of the elements and principles of design as they appear in completed works. All units and assignments are taught to accommodate a wide range of skills and abilities. Students who successfully complete Foundations will be able to enroll in Drawing & Painting, Ceramics 1, and/or Graphic Design 1.

Course Fee: \$25.00

DRAWING & PAINTING 1

9-10-11-12

This course focuses on the development of observational drawing skills. Students will work to strengthen their ability to draw objects from sight, applying proper proportions, values, and color. Media explored may include graphite pencil, charcoal, color pencil, chalk, pastel, and oil pastel. *Course Fee: \$5.00*

DRAWING & PAINTING 2

10-11-12

Drawing & Painting 2 builds on the skills developed in D&P 1. Students will use their observational drawing techniques in the development of paintings and drawing. Media explored may include acrylic paint, watercolor, graphite pencil, charcoal, chalk, pastel, oil pastel, and color pencil. *Course Fee: \$35.00*

ADVANCED DRAWING

11-12

This course builds on the skills developed in Drawing & Painting 1 and 2. Students will apply learned techniques to the development of works that express an idea or message to the viewer. Students will utilize media experiences in previous levels in new ways to portray different surfaces, objects, and the human form. *Course Fee: \$35.00*

ART

ADVANCED PAINTING

11-12

Advanced Painting builds on the skills developed in Drawing & Painting 1 and 2. Students will apply learned techniques to the development of works that express an idea or message. Students will work with watercolor and oil paints. *Course Fee: \$35.00*

CERAMICS 1

9-10-11-12

Ceramics 1 focuses on developing the student's ability to use clay to make works that are either sculptural or functional. Students will gain an understanding of the properties and limitations of clay in both hand-building and use of the potter's wheel. An introductory level of glaze application and other surface treatments will be utilized for the finishing of pieces. Alternative firing techniques will be introduced including raku, saggar, pit, and horse hair. *Course Fee: \$25.00*

CERAMICS 2

10-11-12

Ceramics 2 allows for students to take a more self-directed course. Students will have the option of working with hand-building, the potter's wheel, or both. A series of assignments will be introduced to meet the chosen path of the student. The introduction of new surface treatments and decorative techniques will be explored with each of the assignments allowing students to develop a body of work that expresses their personality and style. Alternative firing techniques will be further explored. *Course Fee: \$25.00*

SCULPTURE

10-11-12

Sculpture will take the knowledge of the elements and principles of design learned in Art Foundations and apply them to the exploration of a variety of media. Students will learn to explore the possibilities and limitations of a given material to express an idea or message utilizing both real and abstract compositions. Media may include clay, plaster, plastic, wood, wire, and small metals. *Course Fee: \$25.00*

DIGITAL PHOTOGRAPHY 1

9-10-11-12

Digital Photo 1 teaches students to capture images with a digital camera and develop compositional skills with a "photographic eye". Editing techniques using Adobe Photoshop will be used to enhance and manipulate the photos taken both in and out of school. *Students must provide their own digital camera. *Course Fee: \$20.00*

DIGITAL PHOTOGRAPHY 2

10-11-12

In this course, students will build on the knowledge learned in Digital Photo 1. Students will continue in the development of taking photographs utilizing good composition. Photographs taken will be used to build composite photos utilizing Adobe Photoshop. *Course Fee: \$20.00*

VIDEO PRODUCTION

10-11-12

Up your TikTok and YouTube game! This class will focus on artistic video and cinematic techniques in capturing and editing footage and audio using a variety of equipment. Students will collaborate on projects creating a variety of videos and films in various subject areas.

FILMMAKING

11-12

This class will focus on independent filmmaking from a writing and directing aspect. Students will learn how to write a film script and a screenplay. Students will also study historical award-winning films through written analysis and verbal discussion. Students will write, direct, and produce their own short film. It is recommended (but not required) that students take Video Production prior to taking Filmmaking.

YEARBOOK

10-11-12

Students interested in design, photography, or writing are encouraged to take this class to compile and record the school's history for the year. Students will learn how design, photography, and writing work together for a variety of purposes, from creating a historical record to utilization as an outreach and marketing tool. Students will work as designers, photographers, and journalists; instruction in their chosen track will be given throughout the course. This full-year course may be taken for English (writing) or Art (photography or design) as an elective credit and is intended for sophomore through senior students.

ART

GRAPHIC DESIGN 1

9-10-11-12

Graphic Design 1 teaches the process of developing and creating info graphics for the purpose of sharing a message. Students will spend part of the semester learning the functions of Adobe Illustrator for the purpose of designing logos, posters, icons, and the like. Students will also learn the process for scanning and digitizing pencil and paper drawings for speeding up the process of design. *Course Fee: \$20.00*

GRAPHIC DESIGN 2

11-12

This course will continue the study of developing and creating infographics utilizing the Adobe Creative Suite. Students will study practical applications for graphic design in the development of business graphics, package design, posters, menus, etc. *Course Fee: \$20.00*

ML GRAPHICS

11-12

Students enrolled in ML Graphics will work with faculty, staff, and community as a graphic design artist to meet the needs and demands of the customer. Students will utilize previous knowledge of Adobe Photoshop, Illustrator, and InDesign. *Course Fee: \$20.00*

ADVANCED PLACEMENT STUDIO ART

12

This is a portfolio course designed for the highly motivated student who wants to explore individual ideas. Each student will produce a quality body of work that will prepare him/her for entrance into a collegiate art program. If the student chooses, s/he may submit a portfolio to the College Board for evaluation and the possibility of receiving college credit. AP credit can be earned in Drawing, Painting, Photography, Ceramics, and/or Sculpture. There is a fee for the AP Studio Art Exam. *Course Fee: \$50.00*

BUSINESS & TECHNOLOGY

| COURSE | GRADE | CREDITS | |
|-----------------------------------|----------|---------|--|
| BUSINESS: | | | |
| INTRODUCTION TO BUSINESS | 10-11-12 | 1.0 | |
| ACCOUNTING | 10-11-12 | 1.0 | <i>Prerequisite: Introduction to Business</i> |
| ENTREPRENEURSHIP | 10-11-12 | 1.0 | <i>Prerequisite: Introduction to Business Recommended but not required</i> |
| MARKETING & MANAGEMENT | 10-11-12 | 1.0 | <i>Prerequisite: Introduction to Business</i> |
| PERSONAL FINANCE | 10-11-12 | 1.0 | <i>(Cross-referenced with Family/Consumer Living)</i> |

BUSINESS

INTRODUCTION TO BUSINESS

10-11-12

This course is designed to provide an introduction to business principles. It will cover basics of management, marketing, financing and accounting within a business environment as well as career research. This course will lead into the Marketing and Accounting courses offered at Martin Luther.

ACCOUNTING

10-11-12

This course introduces the double-entry accounting system. It covers transaction recording and financial statement preparation for some proprietorships and partnerships. The focus is on service and merchandising businesses. Accounting is recommended for all students interested in post-secondary business programs.

ENTREPRENEURSHIP

10-11-12

This course will teach students a process to take their ideas from a concept to a business. Students will get the opportunity to work on their own business concepts in this course and the culmination of the course will have students presenting and pitching their business. Introduction to Business is recommended but not required prior to taking this course.

MARKETING AND MANAGEMENT

10-11-12

This course focuses on the basics of setting up a company. Topics covered include business ownership, production, entrepreneurship, human resources, advertising, and management functions.

PERSONAL FINANCE

10-11-12

This course will examine the topics of savings and investing, credit and debt, financial responsibility, money management, insurance risk management, income/careers, as well as how financial decisions fit into the Christian faith. The curriculum uses personal money management expert Dave Ramsey's "Financial Peace" school curriculum. Personal Finance is cross-referenced with the Family and Consumer Living Department.

BUSINESS & TECHNOLOGY

| COURSE | GRADE | CREDITS | |
|--|------------|---------|---|
| TECHNOLOGY: | | | |
| COMPUTER APPLICATIONS | 9-10-11-12 | 1.0 | |
| STEAM ESSENTIALS | 9-10-11-12 | 1.0 | <i>Prerequisite: A or B in Computer Applications</i> |
| FOUNDATIONS OF COMPUTER SCIENCE | 10-11-12 | 1.0 | <i>Prerequisite: Computer Applications or Dept. Approval</i> |
| AP COMPUTER SCIENCE PRINCIPLES | 11-12 | 2.0 | <i>Prerequisite: Algebra, Foundations of Computer Science</i> |
| AP COMPUTER SCIENCE A | 11-12 | 2.0 | <i>Prerequisite: Algebra, Foundations of Computer Science</i> |

TECHNOLOGY

COMPUTER APPLICATIONS

9-10-11-12

This course is an introduction to typing, Microsoft Office skills, digital citizenship and awareness. In this course, students are also introduced to and taught to properly use the educational technologies teachers use every day at Martin Luther. This prepares students for life as a Spartan as well as beyond high school. This is a pre-requisite for all other technology courses unless approved by the department/instructor.

STEAM ESSENTIALS

9-10-11-12

In this semester course students will learn problem solving skills and the basic concepts of programming and computer science skills. Students will be exposed to basic level programming, robotics, 3D printing and design, and CAD design.

FOUNDATIONS OF COMPUTER SCIENCE

10-11-12

This course is an introduction to the world of computer science. In this course, students will learn computer science concepts along with programming methods using the programming language called Python.

ADVANCED PLACEMENT COMPUTER SCIENCE PRINCIPLES

11-12

This course is an Advanced Placement course that will prepare students to take the AP Computer Science Principles test. Topics will focus on problem-solving through concepts of computer science. Students should have a good understanding of math. There is a fee for the AP exam.

ADVANCED PLACEMENT COMPUTER SCIENCE A

11-12

AP Computer Science A introduces students to computer science through programming. Fundamental topics in this course include the design of solutions to problems, the use of data structures to organize large sets of data, the development and implementation of algorithms to process data and discover new information, the analysis of potential solutions, and the ethical and social implications of computing systems. The course emphasizes object-oriented programming and design using the Java programming language. There is a fee for the AP exam.

ENGLISH

| COURSE | GRADE | CREDITS | |
|---|-------|---------|--|
| COMPREHENSIVE ENGLISH | 9 | 2.0 | <i>Department Placement</i> |
| ENGLISH I | 9-10 | 2.0 | <i>Required</i> |
| ACCELERATED ENGLISH I | 9-10 | 2.0 | <i>Department Placement</i> |
| ENGLISH II | 11-12 | 1.0 | <i>Required Prerequisite: English I</i> |
| CREATIVE WRITING | 11-12 | 1.0 | |
| FACT VERSUS FICTION | 11-12 | 1.0 | |
| AMERICAN LITERATURE | 11-12 | 1.0 | |
| HISTORY OF DRAMA | 11-12 | 1.0 | |
| MODERN LITERATURE | 11-12 | 1.0 | |
| SPEECH | 11-12 | 1.0 | |
| WORLD LITERATURE | 11-12 | 1.0 | |
| AP ENGLISH LANGUAGE AND COMPOSITION | 11-12 | 1.0 | |
| AP ENGLISH LITERATURE AND COMPOSITION | 12 | 2.0 | |
| AP SEMINAR | 11-12 | 2.0 | <i>Part of AP Capstone Program; can be taken in place of Accelerated English II</i> |
| AP RESEARCH | 11-12 | 2.0 | <i>Part of AP Capstone Program Prerequisite: AP Seminar</i> |
| INTRODUCTION TO COLLEGE READING AND WRITING | 11-12 | 2.0 | <i>Dual enrollment course through UWM Students must have a 3.0 average in core English courses</i> |
| ENGLISH LANGUAGE LEARNER COURSES | 9-12 | 1.0-2.0 | <i>Department Placement; see descriptions</i> |

COMPREHENSIVE ENGLISH

9

This course is designed to provide students with a solid foundation in the four skill areas of language arts: reading, writing, speaking, and listening. In Comprehensive English, students will study informational and fictional texts, learn to critically evaluate and respond to the texts, and clearly express their ideas through writing and speaking. The skills that are developed in this year-long course are emphasized through Martin Luther High School's four year English/Language Arts curriculum.

ENGLISH 1

9-10

This course is designed to foster literary analysis and proper writing form in an environment that eases students into the high school experience. Composition is emphasized, first as an organized paragraph, then in a five-paragraph essay. Students will study short stories, poetry, drama, and the novel, with an emphasis on developing literary analysis skills. The memorization of vocabulary and literary terms is also required.

ENGLISH

ACCELERATED ENGLISH 1

9-10

This course is designed to foster literary analysis and proper writing form in an environment that builds on skills students developed in middle school. It is expected that students taking Accelerated English already have a strong grasp of grammar, vocabulary, and writing skills. They must also be close to grade level in reading comprehension. Composition is emphasized, first as an organized paragraph, then in a five-paragraph essay. Students will study short stories, poetry, drama, and the novel, with an emphasis on developing literary analysis skills. The memorization of vocabulary and literary terms is also required. Placement in this course is determined by the English placement test taken after admission.

ENGLISH 2

10-11

This course is designed to continue developing the skills emphasized in English 1. A wide variety of short stories and poetry chosen for high-interest reading will be used to foster both an enjoyment of reading and stimulating class discussion. Topics in the literature read will be the basis for a series of writings that range from personal essay responses to short, researched essays. Online educational programs including Read Theory (to improve reading comprehension) and IXL (to improve grammar and writing skills) will be utilized.

AMERICAN LITERATURE

11-12

This course is designed to enable students to see the growth of American ideas and people through a variety of written forms from the European colonists to 20th Century realists. This class focuses on the development of literature through Rationalism, Romanticism, Transcendentalism, Regionalism, and Post-Modernism. Literary analysis, interpretation, and terminology will be emphasized. While reading selections such as essays, poetry, short stories, novels, and a drama, from 1620 to the present, students will be engaged in critical analysis, classroom discussion, and writing.

CREATIVE WRITING

11-12

Creative Writing is designed to help students develop abilities in the area of imaginative writing focusing on ideas, voice, perspective, characterization, and style as well as capturing reality through content. Students will study various genres such as free verse poetry, short fiction, and essays. Emphasis will be placed on the importance of revision and author workshop and students will be required to do both self and peer critiques of writing.

FACT VERSUS FICTION

11-12

This course takes a look at a variety of timely themes (war, rite of passage, politics, and social acceptance, to name a few) and analyzes the perceptions given to young people today through several different mediums. Predominantly, the class views Hollywood movies and reads current news articles and short non-fiction essays to provide an overview of the chosen themes. Students are required to discuss the current and prevailing attitudes, write short analytical essays that explore their findings and beliefs on the topics chosen, and make one major presentation to the class on one specific theme.

ENGLISH

HISTORY OF DRAMA

11-12

This course is a combination of analysis of timeless plays, intermixed with dramatic instruction and interpretation. Students are expected to contribute individually and in a group setting, including performing a monologue or scene and participating in a class chapel production on stage or behind the scenes. The course includes the study of several classic texts, including *A Midsummer Night's Dream* and *The Glass Menagerie*. In order to appreciate drama in its true form, attendance at a theater production is required.

MODERN LITERATURE

11-12

What works of fiction and nonfiction written in your lifetime will be considered a classic in years to come? This class focuses on some of the best poetry, novels, non-fiction, drama, and short stories written in the 21st century. Selections from Pulitzer Prize winning works to blogs will be read, discussed and explored. Students will analyze the literature in a variety of ways and express their analysis through writing papers, participating in roundtable discussion, and group presentations. Identifying and exploring the elements that make a modern work great will lead us to perhaps discovering a future classic.

SPEECH

11-12

As the importance of effectively communicating with people increases in our society, so too is the need for effective public speakers. This course introduces students to the theory and practice of public speaking, focusing on both speaking and listening skills. Believing that experience is the key to success, each student will have the opportunity to work on preparing, developing and delivering at least 10 presentations during the semester.

WORLD LITERATURE

11-12

In World Literature, students develop a global mindset through the study of texts from a variety of geographic regions, cultures, and time periods. Students work through course content by reading an anchor text and use supplemental materials such as short stories, non-fiction excerpts, and other media to inform their study. Students' mastery of each unit's content and skills will be evaluated through formative and summative assessments including daily in-class activities and discussions, creative projects, tests and quizzes, formal writing, and personal reflection.

ADVANCED PLACEMENT: ENGLISH LANGUAGE AND COMPOSITION

11-12

In this one semester course, offered in the spring in preparation for the AP Language and Composition exam, the focus is primarily on analysis of nonfiction texts. Students will identify and analyze the use of rhetorical devices and persuasive strategies and how these are influenced by the speaker, purpose, audience, and occasion of the text. Students will also write for a variety of occasions and purposes, especially persuasion, analysis, and synthesis. Students may take this course in place of Composition. There is a fee for the AP Language exam.

ADVANCED PLACEMENT: ENGLISH LITERATURE AND COMPOSITION

12

Recommended for the college-bound student, this year-long course is a rigorous study of both British and American literature. Students will examine annotated versions of classic texts, several novels in paperback form, a number of classic plays, and many timeless poems. The course emphasizes a sophisticated level of literary analysis, including the study of many different schools of critical thought (including historical, biographical, feminist, and philosophical theories). The composition of several lengthy, thesis-driven essays is required. There is a fee for the AP English Literature exam.

ENGLISH

ADVANCED PLACEMENT SEMINAR*

11-12

AP Seminar is a foundational course that engages students in cross-curricular conversations that explore the complexities of academic and real-world topics and issues by analyzing divergent perspectives. Using an inquiry framework, students practice reading and analyzing articles, research broadcasts, and personal accounts; and experiencing artistic works and performances. Students learn to synthesize information from multiple sources, develop their own perspectives in written essays, and design and deliver oral and visual presentations, both individually and as part of a team. Ultimately, the course aims to equip students with the power to analyze and evaluate information with accuracy and precision in order to craft and communicate evidence-based arguments. AP Seminar is a unique AP class in that it has both an exam and portfolio component.

ADVANCED PLACEMENT RESEARCH*

11-12

AP Research allows students to deeply explore an academic topic, problem, issue, or idea of individual interest. Students design, plan, and implement a yearlong investigation to address a research question. Through this inquiry, they further the skills they acquire in the AP Seminar Course by learning research methodology, employing ethical research practices, and assessing, analyzing, and synthesizing information. Students reflect on their skill development, document their processes, and curate the artifacts of their scholarly work through a process and reflection portfolio. The course culminates in an academic paper of 4,000-5,000 words (accompanied by a performance, exhibit, or product where applicable) and a presentation with an oral defense.

*AP Seminar and AP Research are both part of the AP Capstone Program through CollegeBoard. Students who take and pass both AP Seminar and AP Research receive an AP Capstone certificate, and students who take and pass both courses in addition to four other AP courses of their choosing receive an AP Capstone diploma.

INTRODUCTION TO COLLEGE READING AND WRITING

11-12

This course teaches students to be both critical and reflective readers of complex texts, as well as critical and reflective writers of effective texts. One important key to being able to do these things is rhetorical knowledge. Rhetoric is foundational for this course because it allows students, on the one hand, to understand how other people's texts affect readers and attempt persuasion, and on the other to compose effective and purposeful texts themselves. Rhetoric prepares students to participate in and respond to nearly any conceivable writing situation, whether it be another college course, certain professional demands, or personal needs. At its most basic—but most profound—level, writing is about making choices, and this course teaches students how to understand other writers' choices and how to make their own effective choices across a variety of writing situations. Key components of this course include rhetoric, reflection, critical reading, writing processes, conversation, and academic discourse.

ENGLISH LANGUAGE LEARNERS

FOUNDATIONS OF LITERACY AND WRITING

9

This 1-credit course is a course to provide students with a solid foundation in the four skill areas of language arts: reading, writing, speaking, and listening. Students will read various informational and fictional texts, critically evaluate and respond to the texts, and clearly express their ideas through writing and speaking. The skills that are developed in this year-long course are emphasized throughout Martin Luther's four-year English/Language Arts curriculum.

SEMINAR IN AMERICAN LITERATURE FLEX I, II

10-11-12

This is a 2-credit course designed to provide students flexible instruction as they build growth of American ideas and people through a variety of written forms from indigenous Native Americans to modern writers. This class focuses on the development of literature through different eras and movements. Literary analysis and literary terminology will be emphasized. While reading a variety of selections from 1620s to the present, students will be engaged in critical analysis, classroom discussion, and writing. Students enrolled in this course should be taking American Literature and U.S. History simultaneously.

SEMINAR IN WRITING

11-12

This 2-credit course is a high school exit level writing course that functions as a workshop which prepares students for real world writing applications, college, and writing in the workplace. The course focuses on the following grammar components: verb tenses, gerunds and infinitives, conditional forms and complex structures, reduced clauses, noun clauses, and indirect speech. Students will practice writing more sophisticated formal essays in different academic modes including the persuasive mode. Students will also revise and edit work; as part of this process, they will learn more about word choice and sentence variety. Students enrolled in this course should be enrolled in upper level writing courses simultaneously.

GRAMMAR I

9-12

This 1-credit course is the first course in grammar that focuses on the study of the main elements of English grammar in speaking and writing. Students learn the development of a paragraph, beginning with a topic sentence and supporting sentences, and ending with a conclusion sentence. By the end of the course, students will be able to write narrative and descriptive paragraphs on a variety of topics. Emphasis is placed on syntax, proper use of punctuation and mechanics, and word forms. This is the first course in a series of three that is designed to prepare students to handle the writing tasks they will encounter in high school level credit courses. Upon successful completion of this course, students should register for Grammar II.

GRAMMAR II

9-12

This 1-credit course is the second course in a series of three that is designed to teach grammar required to succeed in high school level credit courses. Students will use standard English grammar in speaking and will write paragraphs and short compositions. Students are exposed to the models of description, narration, and opinion/reason, and they work on developing effective simple, compound, and complex sentences. In this course, students will explore the elements and rules of English grammar for the purpose of strengthening students' abilities to communicate effectively with confidence and clarity. Students will identify and correct errors in order to become astute editors of their own writing and gain an appreciation for how knowledge of grammatical principles and precision may enhance individual style choice. The course focus is largely practical: it builds on hands-on exercises to achieve mastery of sentence structure and meaning. Among the areas the class will review are sentence construction, correct verb forms, pronouns, agreement, punctuation, restrictive and non-restrictive cases, parallelism, and logic. Short written assignments encourage students to apply and test their progress. Brief readings will offer students illuminating approaches to English usage, style, and syntax. Prerequisite: C or better in Grammar I. Upon successful completion of Grammar II, students should register for Grammar III.

ENGLISH LANGUAGE LEARNERS

GRAMMAR III

9-12

This 1-credit course is the third course in the Grammar series. It provides a review of both essential and finer points of the grammatical structural features of standard communicative English. Emphasis is placed on active production and error analysis of standard English. This course seeks to prepare students for upper division academics. Students continue the study of grammatical structures required for quality oral and written academic communication. Students continue to build on the syntactic knowledge that they have gained in previous study of English grammar, while being introduced to more advanced structures as well as the finer nuances involving tense and aspect of English verbs. Students strengthen their abilities to produce the new grammatical structures in a variety of communicative contexts. *Prerequisite: C or better in Grammar II.*

COLLEGE SEMINAR

11-12

This 1-credit course is a college preparatory course that emphasizes essential skills needed to enhance the college experience. Various colleges visit the classroom to discuss expectations and college entrance procedures. The course discussions will include college placement exams with an emphasis on successful test-taking strategies in the specific areas of math, language, reading, and science-reasoning. Students will study and practice listening and note-taking techniques, test-taking strategies, questioning and thinking skills, information retrieval, pre-test practice, memory technique, reading in the content areas, vocabulary development, and college application completion with the central goal to *increase* both subtest scores and composite scores. All subtests will be reviewed: Speaking, Listening, English, Math, Reading, and Science Reasoning. Students are required to participate in ACT/SAT and English proficiency exams as deemed necessary for college entry.

VOCABULARY ENRICHMENT I, II

9-12

This 2-credit course is offered by semester or as a year-long course. This course focuses on helping students improve and understand vocabulary words by examination of Greek and Latin bases of words, recognition of word parts such as prefixes and suffixes, and looking at the etymological (root) meanings of words. Students will recognize relationships between words (analogies, synonyms, and antonyms), as well as mastering difficult or confusing words (homonyms, homophones, and homographs). Students will also learn to break down challenging words into parts and to derive meaning of vocabulary words from context. The course provides an extensive introduction to figurative language such as metaphors, similes, personification, idioms, and alliteration. Students are assessed by multiple choice exams surrounding the course content. Practicing these skills will help students to utilize better and more effective word choices as they write and help them prepare for college.

INTRODUCTION TO COLLEGE READING & WRITING

11-12

This is a dual-credit course through the University of Wisconsin-Milwaukee. Because certain international test scores are required, this course is designed for multilingual senior students who have been recommended by the English Department and/or World Cultures Program staff. This course prepares and qualifies students for college writing in general and for English 102 specifically. The course focuses on American academic rhetoric and communication and teaches advanced reading and critical thinking skills. In this class, students will focus on close reading and will write analytical essays based on academic readings. Students will learn to reflect on teacher feedback as well as their own writing/reading choices in writing assignments and by talking about their own writing with teachers and peers. Writing and reading through the course will improve overall language skills such as building vocabulary, fluency, and grammar/mechanics skills, and specific language skills.

FAMILY & CONSUMER EDUCATION

| COURSE | GRADE | CREDITS | |
|--------------------------|------------|---------|--|
| SEWING 1 | 9-10-11-12 | 1.0 | |
| SEWING 2 | 9-10-11-12 | 1.0 | <i>Prerequisite: Sewing 1</i> |
| SEWING 3 | 10-11-12 | 1.0 | <i>Prerequisite: Sewing 2</i> |
| SEWING INDEPENDENT STUDY | 11-12 | 1.0 | <i>Prerequisite: Sewing 3</i> |
| FOODS 1 | 9-10-11-12 | 1.0 | |
| FOODS 2 | 10-11-12 | 1.0 | <i>Prerequisite: Foods 1</i> |
| FOODS 3 | 10-11-12 | 1.0 | <i>Prerequisite: "C" or better in Foods 1 and 2</i> |
| COLLABORATIVE COOKING | 11-12 | 1.0 | |
| CULINARY CAREERS | 11-12 | 1.0 | <i>Prerequisite: "C" or better in Foods 1 and 2</i> |
| CHILD DEVELOPMENT 1 | 10-11-12 | 1.0 | |
| CHILD DEVELOPMENT 2 | 10-11-12 | 1.0 | <i>Prerequisite: Child Development 1</i> |
| PERSONAL FINANCE | 10-11-12 | 1.0 | <i>(Cross-referenced with Business & Technology)</i> |

SEWING 1

9-10-11-12

This course is designed to acquaint students with basic clothing construction techniques that include the following: understanding and care of the machines, color, style, design selection, simple pattern alteration, and basic knowledge of fabrics. One craft project will be required of the student. In addition three to four other fabric projects will be completed. Course Fee \$75 for fabric/materials.

SEWING 2

9-10-11-12

This course further explores the world of clothing construction. Three major projects are required for completion of this course. Introduction and use of the serge machines will also be emphasized. Course Fee \$75 for fabric/materials.

SEWING 3

10-11-12

The student, with teacher approval, will select a minimum of three individual projects. Emphasis will be made on different fabrics and advanced techniques. The serge machine will be used more extensively. Course Fee \$75 for fabric/materials.

SEWING INDEPENDENT STUDY

11-12

This class is designed to give the highly motivated clothing students an opportunity to continue study in clothing. The student will determine his/her own area of study with the teacher's approval. This course also gives the student the opportunity to develop pieces for a portfolio for college entrance and/or allows ambitious clothing students to explore their own creative talents further. Course Fee \$75 for fabric/materials.



FAMILY & CONSUMER EDUCATION

FOODS 1

9-10-11-12

This course explores the fundamentals of nutrition and food preparation. Students will plan and properly measure recipe ingredients, and practice a variety of cooking and baking methods. Students taste-test and can eat their products. Basic kitchen tool identification and proper food preparation are strongly emphasized.

Course Fee: \$60.00

FOODS 2

10-11-12

This advanced course builds upon experience and knowledge gained in the introductory course. Topics include budgeting, meal planning and nutrition in today's world. A major project focused on the fast food industry is required and will heavily emphasize the relationship of diet to health and sustainability for a global society.

Course Fee: \$60.00

FOODS 3

10-11-12

This course covers cultural differences in foods both American and International. Each week focuses on a different country and its specific foods. Through weekly cooking, students will learn to prepare meals and incorporate international cooking techniques, demonstrate the knowledge of different styles of service, define international food terms and demonstrate appropriate preparation techniques. *Course Fee: \$60.00*

COLLABORATIVE COOKING

11-12

This course, in collaboration with the students of Journeys Lutheran School, will provide students with the knowledge of basic cooking techniques. Students will work together to achieve hands-on experiences in the kitchen. An advanced culinary ML student will be paired with two JLS freshmen or sophomore students to promote a dynamic cooking experience

CULINARY CAREERS

11-12

In this class, students have the opportunity to explore the exciting and developing professions in the culinary industry using the National Restaurant Associations' ServSafe curriculum. When students successfully complete the program, they will receive certification from the National Restaurant Association. This certification could provide students with articulated college credit or advanced standing opportunities at more than thirty colleges and universities across the United States. Students may also have the opportunity to compete at state and national events. *Course Fee: \$60.00*

CHILD DEVELOPMENT 1

10-11-12

Students study the growth patterns of a child from prenatal development up to one year of age. Each stage is studied from the viewpoint of the physical, intellectual, social and emotional development. Students will work with the "Baby Think It Over" dolls and will also be introduced to the "Empathy Belly." There will be several other hands-on activities throughout the semester.

CHILD DEVELOPMENT 2

10-11-12

Students will continue their study of growth patterns in children. Focus will be placed on the developing child after year one and through adolescence. Units on children's health and safety will also focus on First Aid techniques and careers working with children. There will be several hands-on activities throughout the semester.

PERSONAL FINANCE

10-11-12

This course will examine the topics of savings and investing, credit and debt, financial responsibility, money management, insurance risk management, income/careers, as well as how financial decisions fit into the Christian faith. The curriculum uses personal money management expert Dave Ramsey's "Financial Peace" school curriculum. Personal Finance is cross-referenced with the Business Department.

INDUSTRIAL ARTS

| COURSE | GRADE | CREDITS | |
|----------------------|------------|---------|--|
| WOODS 1 | 9-10-11-12 | 1.0 | <i>Prerequisite: Knowledge of fractions and tape measure</i> |
| WOODS 2 | 9-10-11-12 | 1.0 | <i>Prerequisite: Woods 1</i> |
| WOODS 3S | 10-11-12 | 1.0 | <i>Prerequisite: Woods 2</i> |
| WOODS 3Y | 10-11-12 | 2.0 | <i>Prerequisite: Woods 2</i> |
| SMALL ENGINES | 9-10-11-12 | 1.0 | |
| FABRICATION | 9-10-11-12 | 1.0 | |

WOODS 1 **9-10-11-12**

This semester-long course is designed to teach the student life-skills in the use of hand tools and power equipment. Through the construction of various projects, students will also learn basic safety practices, joint construction, measuring and reading diagrams. No previous woodshop experience needed, but a working knowledge of measurements is helpful. A textbook will be used throughout the course. *Course Fee: \$85*

WOODS 2 **9-10-11-12**

This semester-long class builds on the skills and knowledge of Woods 1. Students will complete the text and finish learning about the various power tools in the shop and their applications. Students will complete three projects which will be more detailed and complex than Woods 1. *Course Fee: \$150*

WOODS 3S **10-11-12**

This is a semester-long course, but students have the option of making this a year-long course by adding Woods 3Y second semester. For the students who opt for the semester-long course, they will plan and build two or three complex projects of their choice with instructor approval. This advanced course provides students with greater challenges to use the skills and knowledge previously learned while introducing new processes and techniques. This course is exclusively hands-on. *Course Fee: \$150*

WOODS 3Y **10-11-12**

Students who opt for the year-long course will continue with and complete the project(s) started in Woods 3S. This not only includes continuing to plan and build their projects, but also finishing (seal/stain/paint, etc) their pieces. Students will continue to incorporate the skills and knowledge of prior classes while learning new processes and techniques. *Course Fee: \$300 (total for two semesters)*

SMALL ENGINES **9-10-11-12**

This semester course will introduce basic engine operation and automobile systems. Students will be disassembling and assembling small engines. They will also be learning the basic systems of automobiles including how to change oil, tires, and spark plugs. *Course Fee: \$25*

FABRICATION **9-10-11-12**

This semester-long course will introduce students to metal working. Students will learn basic welding, sheet metal working, reading part schematics and manufacturing standards. The ability to read a tape measure and understand fractions and decimals is helpful. *Course Fee: \$65*

MATHEMATICS

| COURSE | GRADE | CREDITS | |
|---------------------------------|------------|---------|---|
| ALGEBRA | 9-10-11-12 | 2.0 | <i>Department Placement</i> |
| ACCELERATED ALGEBRA | 9-10-11-12 | 2.0 | <i>Department Placement</i> |
| GEOMETRY | 9-10-11-12 | 2.0 | <i>Prerequisite: Algebra</i> |
| ACCELERATED GEOMETRY | 9-10-11-12 | 2.0 | <i>Prerequisite: Algebra</i> |
| STATISTICS | 10-11-12 | 1.0 | <i>Prerequisite: Geometry</i> |
| DISCRETE MATH | 10-11-12 | 1.0 | <i>Prerequisite: Geometry</i> |
| ALGEBRA 2 | 11-12 | 2.0 | <i>Prerequisite: Geometry</i> |
| ADVANCED ALGEBRA & TRIGONOMETRY | 10-11-12 | 2.0 | <i>Prerequisite: Geometry</i> |
| PRE-CALCULUS | 11-12 | 2.0 | <i>Prerequisite: Advanced Algebra/Trigonometry Accelerated Course</i> |
| AP CALCULUS AB | 11-12 | 2.0 | <i>Prerequisite: Pre-Calculus grade B or better Advanced Placement Course</i> |
| AP CALCULUS BC | 11-12 | 2.0 | <i>Prerequisite: Pre-Calculus grade B or better Advanced Placement Course</i> |
| AP STATISTICS | 11-12 | 2.0 | <i>Prerequisite: Advanced Algebra/Trigonometry Advanced Placement Course</i> |

ALGEBRA

9-10-11-12

This course is designed for students who have completed Pre-Algebra in grade school or Algebra Lab . Emphasis is placed on the structure of the real number system, the use of variables in algebraic expressions, the solving of equations and inequalities, graphing skills, and the development of the logical thinking skills. **Students need a scientific Texas Instruments calculator.**

ACCELERATED ALGEBRA

9-10-11-12

This course is designed for the average to above average student. The focus is on a deep understanding of algebraic theory and its application to problems. In addition to the topics taught in Algebra, students will be expected to recognize real number properties and axioms in rigorous derivations of various properties, use quadratic equations to find maximum and minimum values, solve linear systems of equations, and solve equations involving radical expressions. **Students need a scientific Texas Instruments calculator.**

GEOMETRY

9-10-11-12

Geometry is the study of the relationships between plane figures. Points of emphasis include developing student awareness of the geometric concepts present in the world, geometric constructions, area relationships, and the inductive and deductive reasoning processes. Students successfully completing Algebra should enroll in this class. **Students need a graphing calculator - Model TI-84**

MATHEMATICS

ACCELERATED GEOMETRY

9-10-11-12

This course is the study of the relationships between plane figures. Points of emphasis include developing student awareness of the geometric concepts present in the world, formal proofs, logic and area relationships, and the deductive and inductive reasoning processes. **Students need a graphing calculator - Model TI-84**

STATISTICS

11-12

This is a one-semester course designed to introduce a student to the basic concepts of statistics, including methods of gathering, displaying and interpreting data, probability patterns, and problem solving.

DISCRETE MATH

11-12

In this semester course, students will see the connections among mathematical topics and real-life events and situations, while sharpening their problem solving, mathematical reasoning and communication skills. Topics will include: Election Theory, Fair Division, Math Induction, Matrix Operations and Applications, Graphs, Subgraphs, Trees, and Their Applications, Counting and Probability, Game Theory and Recursion. This course is an excellent companion course to be taken in the same school year as Introduction to Statistics. **Students need a graphing calculator - Model TI-84**

ALGEBRA 2

10-11-12

This is a course designed for the student who has completed Geometry, but is not ready for the rigor of Advanced Algebra/Trigonometry. Topics from Algebra and Geometry will be reviewed and extended. New topics will be explored. **Students need a graphing calculator - Model TI-84**

ADVANCED ALGEBRA & TRIGONOMETRY

10-11-12

This is a rigorous course for average and above-average students who have completed a year of algebra and geometry. Emphasis is given to the structure of algebra and to a formal introduction to trigonometry. Manipulative skills needed to perform algebraic operations are stressed, along with developing the student's power to think logically. **Students need a graphing calculator - Model TI-84**

PRE-CALCULUS

11-12

This is a course for the advancement and enrichment of mathematics and to prepare students to take AP Calculus. Besides a basic review of advanced algebra and trigonometry, topics include sequences, series, analytical geometry, statistics, probability, limits, and derivatives. **Students need a graphing calculator - Model TI-84**

MATHEMATICS

ADVANCED PLACEMENT CALCULUS AB

11-12

AP Calculus is designed to assist the student in mastering the necessary calculus skills needed to pass the Advanced Placement Calculus AB test and earn college credit for calculus. Differential and integral calculus topics are studied in great detail. There is a fee for the AP Calculus exam. **Students need a graphing calculator - Model TI-84**

ADVANCED PLACEMENT CALCULUS BC

11-12

AP Calculus is designed to assist the student in mastering the necessary calculus skills needed to pass the Advanced Placement Calculus BC test and earn college credit for calculus. Differential and integral calculus along with sequence and series topics are studied in great detail. There is a fee for the AP Calculus exam. **Students need a graphing calculator - Model TI-84**

ADVANCED PLACEMENT STATISTICS

11-12

AP Statistics is designed to introduce students to the major concepts and tools for collecting, analyzing and drawing conclusions from data. Statistics has become an increasingly useful subject to know in occupations related to medicine, law, and financial services. Students are exposed to four broad conceptual themes:

1. Exploring Data: Describing patterns and departures from patterns
2. Sampling and Experimentation: Planning and conducting a study
3. Anticipating Patterns: Exploring random phenomena using probability and simulation
4. Statistical Inference: Estimating population parameters and testing hypotheses

Students who successfully complete the course and exam may receive credit, advanced placement or both for a one-semester introductory college statistics course. There is a fee for the AP Statistics exam. **Students need a graphing calculator - Model TI-84**

MATH

The collage contains the following mathematical content:

- Algebra:** $x^2 - a^2 = (x+a)(x-a)$, $(a^m)^n = a^{m \cdot n}$, $a^m \times a^n = a^{m+n}$, $a^m \div a^n = a^{m-n}$, $(ab)^m = a^m b^m$, $(\frac{a}{b})^m = \frac{a^m}{b^m}$, $(a^m)^{\frac{1}{n}} = a^{\frac{m}{n}}$, $(a^{\frac{1}{n}})^m = a^{\frac{m}{n}}$, $(a^m)^n = a^{m \cdot n}$, $(a^{\frac{1}{n}})^m = a^{\frac{m}{n}}$, $(a^m)^{\frac{1}{n}} = a^{\frac{m}{n}}$, $(a^{\frac{1}{n}})^m = a^{\frac{m}{n}}$.
- Calculus:** $\frac{d}{dx} x^n = n x^{n-1}$, $\frac{d}{dx} e^x = e^x$, $\frac{d}{dx} \ln x = \frac{1}{x}$, $\frac{d}{dx} \sin x = \cos x$, $\frac{d}{dx} \cos x = -\sin x$, $\frac{d}{dx} \tan x = \sec^2 x$, $\frac{d}{dx} \cot x = -\csc^2 x$, $\frac{d}{dx} \sec x = \sec x \tan x$, $\frac{d}{dx} \csc x = -\csc x \cot x$, $\frac{d}{dx} \sinh x = \cosh x$, $\frac{d}{dx} \cosh x = \sinh x$, $\frac{d}{dx} \tanh x = \text{sech}^2 x$, $\frac{d}{dx} \text{sech} x = -\text{sech} x \tanh x$, $\frac{d}{dx} \text{arcsinh} x = \frac{1}{\sqrt{1+x^2}}$, $\frac{d}{dx} \text{arccosh} x = \frac{1}{\sqrt{x^2-1}}$, $\frac{d}{dx} \text{arcsin} x = \frac{1}{\sqrt{1-x^2}}$, $\frac{d}{dx} \text{arccos} x = \frac{-1}{\sqrt{1-x^2}}$, $\frac{d}{dx} \text{arctan} x = \frac{1}{1+x^2}$, $\frac{d}{dx} \text{arccot} x = \frac{-1}{1+x^2}$, $\frac{d}{dx} \text{arcsec} x = \frac{1}{|x| \sqrt{x^2-1}}$, $\frac{d}{dx} \text{arccsc} x = \frac{-1}{|x| \sqrt{1-x^2}}$.
- Trigonometry:** $\sin^2 x + \cos^2 x = 1$, $\csc^2 x = 1 + \cot^2 x$, $\sec^2 x = 1 + \tan^2 x$, $\sin(-x) = -\sin(x)$, $\cos(-x) = \cos(x)$, $\tan(-x) = -\tan(x)$, $\cot(-x) = -\cot(x)$, $\sec(-x) = \sec(x)$, $\csc(-x) = -\csc(x)$, $\sinh(x) = \frac{e^x - e^{-x}}{2}$, $\cosh(x) = \frac{e^x + e^{-x}}{2}$, $\tanh(x) = \frac{\sinh(x)}{\cosh(x)}$, $\text{sech}(x) = \frac{1}{\cosh(x)}$, $\text{csch}(x) = \frac{1}{\sinh(x)}$, $\text{coth}(x) = \frac{\cosh(x)}{\sinh(x)}$, $\text{csch}^2(x) - \text{coth}^2(x) = 1$, $\text{sech}^2(x) + \text{csch}^2(x) = 1$, $\text{arcsinh}(z) = \ln(z + \sqrt{z^2+1})$, $\text{arccosh}(z) = \ln(z + \sqrt{z^2-1})$, $\text{arcsin}(z) = \ln(\frac{z + \sqrt{1-z^2}}{i})$, $\text{arccos}(z) = \ln(\frac{z + \sqrt{z^2-1}}{i})$, $\text{arctan}(z) = \frac{i}{2} \ln(\frac{1-iz}{1+iz})$, $\text{arccot}(z) = \frac{i}{2} \ln(\frac{1+iz}{1-iz})$, $\text{arcsec}(z) = \ln(\frac{z + \sqrt{z^2-1}}{z})$, $\text{arccsc}(z) = \ln(\frac{z + \sqrt{z^2-1}}{z})$.
- Geometry:** Area of triangle = $\frac{1}{2}bh$, Area of parallelogram = bh , Area of circle = πr^2 , Circumference of circle = $2\pi r$, Volume of cylinder = $\pi r^2 h$, Volume of cone = $\frac{1}{3}\pi r^2 h$, Volume of sphere = $\frac{4}{3}\pi r^3$, Surface area of sphere = $4\pi r^2$, Pythagorean theorem: $a^2 + b^2 = c^2$, Law of Sines: $\frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C}$, Law of Cosines: $c^2 = a^2 + b^2 - 2ab \cos C$.
- Other:** $\vec{u} + \vec{v} = \vec{w}$, $\vec{u} \cdot \vec{v} = |\vec{u}| |\vec{v}| \cos \theta$, $\vec{u} \times \vec{v} = |\vec{u}| |\vec{v}| \sin \theta \vec{n}$, $\vec{u} \cdot (\vec{v} \times \vec{w}) = \text{determinant}$, $\vec{u} \times (\vec{v} \times \vec{w}) = \vec{v}(\vec{u} \cdot \vec{w}) - \vec{w}(\vec{u} \cdot \vec{v})$, $(\vec{u} \times \vec{v}) \times \vec{w} = \vec{v}(\vec{u} \cdot \vec{w}) - \vec{u}(\vec{v} \cdot \vec{w})$, $\vec{u} \cdot (\vec{u} \times \vec{v}) = 0$, $(\vec{u} \times \vec{v}) \cdot (\vec{u} \times \vec{v}) = |\vec{u}|^2 |\vec{v}|^2 - (\vec{u} \cdot \vec{v})^2$, $(\vec{u} \times \vec{v}) \cdot \vec{w} = \vec{u} \cdot (\vec{v} \times \vec{w})$, $(\vec{u} \times \vec{v}) \cdot (\vec{u} \times \vec{v}) = |\vec{u}|^2 |\vec{v}|^2 - (\vec{u} \cdot \vec{v})^2$, $(\vec{u} \times \vec{v}) \cdot \vec{w} = \vec{u} \cdot (\vec{v} \times \vec{w})$, $(\vec{u} \times \vec{v}) \cdot (\vec{u} \times \vec{v}) = |\vec{u}|^2 |\vec{v}|^2 - (\vec{u} \cdot \vec{v})^2$, $(\vec{u} \times \vec{v}) \cdot \vec{w} = \vec{u} \cdot (\vec{v} \times \vec{w})$.

MUSIC

| COURSE | GRADE | CREDITS | |
|-----------------|------------|------------|---|
| CHORUS | 9-10-11-12 | 1.0 or 2.0 | |
| CONCERT CHOIR | 10-11-12 | 2.0 | <i>Audition Required</i> |
| SPARTAN BAND | 9-10-11-12 | 2.0 | |
| VARSITY BAND | 9-10-11-12 | 2.0 | <i>Audition Required</i> |
| SYMPHONIC BAND | 9-10-11-12 | 2.0 | <i>Audition Required</i> |
| AP MUSIC THEORY | 10-11-12 | 2.0 | <i>Department Approval (Band or Choir Director)</i> |

CHORUS

9-10-11-12

This is a semester elective course open to all students who like to sing and are interested in improving their singing. Voice training, ear training, note reading, and general music theory are areas of instruction. Choral literature includes both sacred and secular music. The Chorus performs at ML chapel services, annual concerts, Wisconsin School Music Association Choral Festivals, and various community events.

CONCERT CHOIR

10-11-12

This is a performance course in which students gain an understanding of the function of choral music, especially in Christian worship. Through the preparation and performance of both sacred and secular choral literature, vocal skills and techniques are developed and enhanced. The Concert Choir performs at ML chapel services, worship services at area Lutheran churches, concerts and the annual Choir Tour.

SPARTAN BAND

9-10-11-12

This instrumental ensemble is open to all students who are interested in learning a band instrument. No previous musical background is required. The Spartan Band plays for the Christmas and Spring concerts. Students can choose from the following instruments: flute, clarinet, saxophone, trumpet, trombone, baritone. Percussion can only be learned if there is prior piano background. Students are responsible for upkeep of instruments and for any repairs needed throughout the year. Small purchases may be required for reeds, valve oil, etc.

VARSITY BAND

9-10-11-12

This instrumental ensemble is open to all students who wish to further their previous band training. Special attention is given to tone production and instrumental technique. The Varsity Band plays for school events and annual concert programs, and performs in music festivals.

SYMPHONIC BAND

9-10-11-12

This is a performance course that utilizes previous training in instrumental music to present the classic and popular works in the band repertoire. Instrumental fundamentals and techniques are studied for continued self-improvement. A sense of musicianship and artistic expression is developed through the preparation and performance of concert music. The Symphonic Band plays for school athletic events, performs in annual concerts, participates in music festivals, and travels for the annual Band Tour.

AP MUSIC THEORY

10-11-12

AP Music Theory is designed for the mature musician who is interested in enhancing his/her music ability through a rigorous study of music theory. The class will enable the student to understand theoretical and historical significance of harmonic structure as it relates to Western music and to develop necessary technical skills used in analysis of music structurally and harmonically. Students will devote a significant amount of time developing the "aural skills" of sight-singing, interval and chord recognition, melodic dictation, and harmonic dictation. Music will be studied by both aural and written methods to develop both the "eye" and "ear" of the progressing student. Ultimately, the class will prepare students for the AP Music Theory examination.

PHYSICAL EDUCATION

| COURSE | GRADE | CREDITS | |
|-------------------------------------|------------|---------|---|
| HEALTH AND FITNESS | 9 | 1.0 | <i>Required</i> |
| LIFETIME ACTIVITIES | 9-10-11-12 | 1.0 | <i>Required; Prerequisite: Health and Fitness</i> |
| LIFETIME ACTIVITIES 2 | 10-11-12 | 1.0 | <i>Prerequisite: Lifetime Activities</i> |
| PHYSICAL EDUCATION ELECTIVES | | | |
| TAEKWONDO/SELF DEFENSE | 10-11-12 | 1.0 | <i>Prerequisite: Health and Fitness, Lifetime Activities</i> |
| YOGA/PILATES | 10-11-12 | 1.0 | |
| SOFTBALL/VOLLEYBALL/SOCCER | 10-11-12 | 1.0 | <i>Health and Fitness, Lifetime Activities and two additional PE Electives must be taken to fulfill graduation requirements</i> |
| FLAG FOOTBALL/BASKETBALL/SPEEDBALL | 10-11-12 | 1.0 | |
| RACQUET SPORTS | 10-11-12 | 1.0 | |
| ATHLETIC PERIOD | 10-11-12 | 1.0 | |
| SPORTS OFFICIATING & COACHING | 11-12 | 1.0 | |

HEALTH AND FITNESS

9

This course provides opportunities for the student to explore many activities in the search of his/her personal health and fitness needs. Some of the topics to be covered are cardiovascular and muscular strength and endurance, flexibility, as well as health topics such as nutrition, mental/emotional health, obesity, STDs, drugs and alcohol, and First Aid.

LIFETIME ACTIVITIES

9-10-11-12

The course is designed to have an emphasis on indoor and outdoor activities, and for students to develop an appreciation and desire to continue these activities into their adult lives. The activities that will be focused on (but not limited to) include: Frisbee Golf, Racquetball, Bicycling, Outdoor Skills/Camping, Bowling and Golf.

Course Fee: \$5.00

LIFETIME ACTIVITIES 2

10-11-12

Lifetime Activities 2 is a Physical Education course falling in the category of “elective”. PE elective course grading is based primarily on participation, effort, citizenship/sportsmanship, and class preparedness. The course’s foundation is built from the structure and units used in the prerequisite Lifetime Activities. The course will include mini units in Volleyball, Tennis, Badminton, Disc Golf, and Softball. Other activities include Basketball, Flag Football, Pickleball, Ultimate Games, Yoga/Pilates, and Cooperative Games. Lifetime Activities 2 will follow Physical Education department policy of having one weight room/strength training day per week.

PHYSICAL EDUCATION ELECTIVES

10-11-12

Students must have completed both Health and Fitness and Lifetime Activities to take PE Electives. Each PE elective course is one semester.

-TAEKWONDO/SELF DEFENSE

-YOGA/PILATES

-SOFTBALL/VOLLEYBALL/SOCCER

-RACQUET SPORTS

-FLAG FOOTBALL/BASKETBALL/SPEEDBALL

-ATHLETIC PERIOD This course is designed to allow athletes to continue to develop sport specific skills while still allowing them to work towards a healthy and active lifestyle. There will be an emphasis on skills to build their cardiovascular and muscular strength and endurance. This will be guided by written instruction from the athletes’ coaches and directed by the instructor. To be eligible for this class you must be a participant on at least one athletic team, preferably during the semester you are taking the course,

-SPORTS OFFICIATING/COACHING This course is designed to promote lifelong physical activity by participating in officiating and coaching, while also allowing youth the opportunity to participate in sports by addressing the current WIAA officiating shortage. Students prepare to become successful coaches by discussing philosophy, theory, game, practice, and season planning, budgeting, and communication. Hot topics in the world of sports will also be discussed.

SCIENCE

| COURSE | GRADE | CREDITS | |
|--------------------------------------|----------|---------|---|
| PHYSICAL SCIENCE | 9 | 2.0 | |
| BIOLOGY | 9-10 | 2.0 | <i>Required Freshman Accelerated Placement Possible</i> |
| CHEMISTRY | 10-11-12 | 2.0 | <i>Prerequisite: Algebra B grade or better or Accelerated Algebra C grade or better (Can be taken same year as Biology)</i> |
| PHYSICS | 10-11-12 | 2.0 | <i>Prerequisite: Biology & Geometry</i> |
| HUMAN ANATOMY | 10-11-12 | 1.0 | <i>Prerequisite: Biology</i> |
| COMPARATIVE ORIGINS | 10-11-12 | 1.0 | <i>Prerequisite: Biology (Cross-referenced with Theology)</i> |
| EARTH SCIENCE 1 | 10-11-12 | 1.0 | <i>Prerequisite: Biology (can be taken same year)</i> |
| EARTH SCIENCE 2/METEOROLOGY | 11-12 | 1.0 | <i>Prerequisite: Biology (can be taken same year)</i> |
| ASTRONOMY | 11-12 | 1.0 | <i>Prerequisite: Biology</i> |
| DESIGN & TECHNOLOGY | 11-12 | 1.0 | <i>Prerequisite: Biology</i> |
| AP BIOLOGY | 11-12 | 2.0 | <i>Prerequisite: B or better in Biology (Can be taken same year as Chemistry) Advanced Placement Course</i> |
| AP CHEMISTRY | 11-12 | 2.0 | <i>Prerequisite: B or better in Chemistry Advanced Placement Course</i> |
| AP ENVIRONMENTAL SCIENCE | 10-11-12 | 2.0 | <i>Prerequisite: B or better in Biology Advanced Placement Course</i> |
| AP PHYSICS | 11-12 | 2.0 | <i>Prerequisite: B or better in Physics & Advanced Algebra/Trig Advanced Placement Course Dual Credit Available</i> |
| PRINCIPLES OF GENERAL SCIENCE | 9-12 | 1.0-2.0 | <i>World Cultures/ELL Department Approval</i> |

PHYSICAL SCIENCE

9

This course introduces students to basic concepts of chemistry and physics. Working with measurements, using mathematical calculations and equations, and applying problem solving techniques are an integral part of this course. Laboratory investigations are an important part of the curriculum, thus safety glasses are required and available through the science department for approximately \$7.00.

BIOLOGY

9-10

The study of life begins with the basic units of life and moves toward the complex aspects. This course emphasizes being aware of the environment, other organisms, and especially of one's self as an intricate human being. Laboratory activities aid in this understanding.

CHEMISTRY

10-11-12

This course is the study of the structure of matter, its properties, and its reactions. Topics covered include atomic theory, chemical and physical properties of elements, chemical bonding, and the study of chemical reactions. Emphasis is placed on integrating mathematical and problem solving skills to solve complex chemistry problems and utilizing scientific methodology and technology in the laboratory setting. Chemistry is recommended for all college-bound students. Safety glasses are required and available through the school for approximately \$7.00.

SCIENCE

PHYSICS

10-11-12

This course is designed to make students think a little harder about the amazing characteristics of our world that they take for granted every day. Topics include, but are not limited to, light, sound, motion, force, and energy. Mathematical relationships will be studied in detail to establish a conceptual foundation for more advanced future study. Upon completion, students will have a better appreciation for the world they live in and a deeper understanding of the laws God put into place that keep our planet orderly and habitable.

HUMAN ANATOMY

10-11-12

This course is about the most wondrous of all structures that God has created—the human body. It presents information about the science of the structure of the many human organ systems as well as the functions of these organ systems. This course is designed for those students interested in some type of medical career.

COMPARATIVE ORIGINS

10-11-12

This course aims to answer the question “Where did it all come from?”. Whether talking about the universe, the world, or the human race, this class explores the origin of everything. Topics include (but are not limited to) the big bang, evolution, radiometric dating, and the fossil/geologic records and how they point toward the Bible, not away from it. Students who pass this faith-building science class will know how to think critically about these controversial issues and be ready to face them in a university setting. Prerequisite: Biology—though the class is geared toward juniors and seniors with a solid science background. This course is cross-referenced with the Theology Department.

EARTH SCIENCE 1

10-11-12

The course is an introduction to earth properties and processes on, in, and above the ground. Topics covered include geology (plate tectonics, earthquakes, volcanos, erosion, mountain formation), rocks, and minerals. Students will also look at the Earth’s larger place in the solar system and how God has positioned our planet and tuned its processes to allow humanity to thrive. This class will begin with Earth’s characteristics in geography, rotation, and orbit, followed by rocks, minerals, and geologic processes. The class must be taken along with or after completion of Biology.

EARTH SCIENCE 2/METEOROLOGY

11-12

Earth Science 2 is all about the weather (also called meteorology). This course helps the student discover why different types of weather occur and where our weather systems come from. Students will learn about fronts, air pressure, and wind patterns, and what causes hazardous weather events such as snowstorms, thunderstorms, lightning, tornadoes, and hurricanes. Students will also learn the basics of weather forecasting and learn to predict the weather based on outdoor observations and computer models. This course is designed for anyone who ever goes outside. Earth Science 2 may be taken separately from Earth Science 1, in any order and in non-consecutive semesters.

ASTRONOMY

11-12

This course is designed to be a guided tour of our universe. Topics include, but are not limited to, planets, stars, comets, meteors, black holes, and rockets. The astronomy student will also engage in a variety of projects over the course of the semester. Critical thinking and effective communication skills are emphasized. The wonder of God’s creation begins here on earth, but it doesn’t come to fruition until we travel beyond our skies.

DESIGN & TECHNOLOGY

11-12

This is a project-oriented course. Students will study elements of the design process, problem solving strategies, and ergonomics. Hands-on designing, building, testing, and evaluating of projects will take place. Design projects may include studies in the area of aerodynamics, thermodynamics, statics, pneumatics, and mechanics. Students are expected to document their designs and turn in a project report at the end of each unit. *Course Fee: \$30.00*

SCIENCE

ADVANCED PLACEMENT BIOLOGY

11-12

This is a college-level course for juniors or seniors who are interested in furthering their knowledge of the biological sciences. In-depth studies of biochemistry, genetics, cytology, anatomy and physiology of plants and animals, and ecology will be achieved. AP Biology is recommended for students desiring to enter an area of medicine, nursing, medical research or biology in college. Prerequisite: B or better in Biology, C or better in Chemistry. There is a fee for the AP Biology exam.

ADVANCED PLACEMENT CHEMISTRY

11-12

The AP Chemistry course provides students with a college-level foundation to support future advanced course work in chemistry. Students cultivate their understanding of chemistry through inquiry-based investigations, as they explore topics such as: atomic structure, intermolecular forces and bonding, chemical reactions, kinetics, thermodynamics, and equilibrium. Prerequisite: B or better in Chemistry. There is a fee for the AP Chemistry exam.

ADVANCED PLACEMENT ENVIRONMENTAL SCIENCE

11-12

The AP Environmental Science course is designed to be the equivalent of a one-semester, introductory college course in environmental science. The goal of the AP Environmental Science course is to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving and/or preventing them. This is a year long course, and there is a fee for the AP Environmental Science exam.

ADVANCED PLACEMENT PHYSICS

11-12

This course is the equivalent to first semester college calculus-based mechanics. AP Physics will prepare students to take the AP Physics exam in the spring to qualify for college credit. AP Physics is recommended either for students entering a physics related field (such as engineering, architecture, etc.) or for any student wishing to qualify for a college science credit. Prerequisite: B or better in Physics. There is a fee for the AP Physics exam.

PRINCIPLES OF GENERAL SCIENCE

9-12

This is a semester or year-long general science content-based course. The course uses an instructional design that relies mainly on developing science content subject matter so that students have general science knowledge. General Science topics are divided into five units of study with explanations of over 50 science topics. The journey begins with the precepts of the scientific theory, method, quantitative data, qualitative data, and tools. Topics include the human body, the solar system, and electricity and magnetism. Other units include Biological Life Science, which is presented so that the student has a good biological background of information ranging from single-celled organisms to reproduction, genetics, and ecosystems. Earth Science topics are covered such as space, the earth's structure, weather, and natural resources. Physical Science delves into atoms and molecules, chemistry, and forms of energy.

SOCIAL STUDIES

| COURSE | GRADE | CREDITS | |
|---------------------------------------|------------|---------|---|
| PRINCIPLES OF AMERICAN CULTURE | 9-10 | 1.0 | <i>For World Cultures Program Students</i> |
| GEOGRAPHY | 9-10-11-12 | 1.0 | |
| WORLD HISTORY | 9-10 | 2.0 | <i>Required (or A.P. World History) Freshman accelerated placement possible</i> |
| UNITED STATES HISTORY | 10-11-12 | 2.0 | <i>Required (or A.P. U.S. History) Prerequisite: World History</i> |
| CRIMINAL JUSTICE | 11-12 | 1.0 | |
| PSYCHOLOGY | 11-12 | 1.0 | |
| SOCIOLOGY | 11-12 | 1.0 | |
| ECONOMICS | 11-12 | 1.0 | <i>Prerequisite: World History & US History</i> |
| AMERICAN GOVERNMENT | 11-12 | 1.0 | <i>Prerequisite: World History Dual Credit Available</i> |
| HUMANITIES | 11-12 | 1.0 | |
| AP HUMAN GEOGRAPHY | 9-12 | 2.0 | <i>Department/Student Services Approval</i> |
| AP PSYCHOLOGY | 11-12 | 2.0 | <i>Prerequisite: GPA 3.0 overall or Social Studies Advanced Placement Course</i> |
| AP UNITED STATES HISTORY | 10-12 | 2.0 | <i>May be taken to fulfill U.S. History requirement Dual Credit Available Advanced Placement Course</i> |
| AP WORLD HISTORY | 9-12 | 2.0 | <i>May be taken to fulfill World History requirement Advanced Placement Course</i> |

PRINCIPLES OF AMERICAN CULTURE

9-10

This course is designed to give students an understanding of American culture and the culture of high school. Students will learn the necessary terms related to America so they can better understand cultural references and nuances. Students will study American values, civics (geography, history, and government), media, the arts, home, family and lifestyles. They will learn necessary skills for academic and social integration in high school. An emphasis is placed on reading, listening, speaking, and writing.

GEOGRAPHY

9-10-11-12

This course is designed to give the students a basic knowledge of physical, cultural, and economic geography as applied to the major regions of the world. Emphasis is placed on map work, terminology, landforms, and climate conditions. Students learn how to organize information on how land and people affect each other politically and economically. The course is also intended to provide students with an awareness of global cultural similarities and differences.

WORLD HISTORY

9-10

This course is designed as an investigation of world history; the sequence begins with the earliest civilizations and concludes with an exploration of the world today. The first semester topics include belief systems, the rise and fall of empires, and the medieval feudal system. The second semester focuses on themes of exploration, cultural, political, and economic revolutions, imperialism and global conflict, and globalization. The course emphasizes document analysis, a variety of note-taking skills, historical research and interpretation, and historical writing skills.

SOCIAL STUDIES

UNITED STATES HISTORY

10-11-12

This course introduces the student to a comprehensive history of the United States. It describes the struggles and accomplishments of all people who have made valuable contributions to our nation's history. Major areas of study include the development of a nation, the changes and its impact on the people, the diverse cultures in our society, the role of the United States in world affairs, and the experiences and contributions of many people in the United States. The student is given the opportunity to understand the impact of the past on the present and the resulting need to make sound decisions for the future.

CRIMINAL JUSTICE

11-12

This course is intended to familiarize students with the concepts, theories, and practices present in the study of crime and law. In developing effective citizens, the course is designed to provide students with an understanding of the criminal justice system using real American criminal cases. Understanding crimes, as well as consequences, allows students to gain a further civic understanding of our legal system and its impact on society as well as the effects of crime on victims, the criminal, and society. The course will also encourage students to determine what causes crimes by examining different sociological, psychological, and biological theories behind criminal behavior.

PSYCHOLOGY

11-12

The Psychology course introduces students to the systematic and scientific study of human behavior and mental processes. While considering the psychologists and studies that have shaped the field, students explore and apply psychological theories, key concepts, and phenomena associated with such topics as the biological bases of behavior, sensation and perception, learning and cognition, motivation, developmental psychology, testing and individual differences, treatments of psychological disorders, and social psychology. Throughout the course, students employ psychological research methods, including ethical considerations, as they use the scientific method, evaluate claims and evidence, and effectively communicate ideas.

SOCIOLOGY

11-12

This course is designed to acquaint the student with the forces of change that are shaping American life, applying the discipline of Sociology. It covers the development of individual actions and how they are shaped by group behavior. The course emphasizes the development of critical thinking through discussion, reading, research, class activity, lecture, and audio-visual material. A key objective is for students to become informed and responsible Christian participants as they develop their roles in society. Topics include the areas of culture, socialization, social equity, economic conditions, and social institutions.

ECONOMICS

11-12

This course is designed to introduce and engage students in analyzing and evaluating economic systems, identifying and critiquing economic issues and studying the theories and concepts of economics. Emphasis will be placed on the role economics plays in students' everyday lives as consumers, workers, and citizens.

AMERICAN GOVERNMENT

11-12

This course is designed to provide students with an overview of the framework and concepts on which American government is based. The structure and functions of federal, state and local government will be examined along with related aspects such as the political process, citizenship interest groups, and the courts. Emphasis is placed on exposing the students to the variety of resources that both inform and influence public awareness of political issues. Dual credit is available for this course.

HUMANITIES

11-12

This course consists of a study of the art, architecture, and music of the Ancient, Medieval, Renaissance, Baroque, Classical, and Romantic historical periods, as well as an overview of the popular, jazz, and rock music styles of the 20th century. Videos, slides, and recordings are used to help explore the various art forms. Periodic field trips to concert halls and art museums are included to make studies more meaningful. This is an excellent course for students planning to pursue a liberal arts education in college.

SOCIAL STUDIES

ADVANCED PLACEMENT HUMAN GEOGRAPHY

9-10-11-12

The purpose of AP Human Geography is to introduce students to a systematic study of patterns and processes that have shaped mankind's understanding, use, and alteration of the Earth's surface. Students will learn to use spatial concepts when analyzing human's organization of space, landscapes, and the environmental consequences of their decisions from the local to global level. Students will also be looking for patterns across the cultural landscape, trying to identify trends, and anticipate future phenomena using the scientific methods, research, and tools of geographers. At its core, Human Geography teaches students how to interpret maps, select the correct maps to obtain information, interpret sets of data, and analyze geographic models to effectively evaluate the world we live in.

ADVANCED PLACEMENT PSYCHOLOGY

10-11-12

The AP Psychology course introduces students to the systematic and scientific study of human behavior and mental processes. While considering the psychologists and studies that have shaped the field, students explore and apply psychological theories, key concepts, and phenomena associated with such topics as the biological bases of behavior, sensation and perception, learning and cognition, motivation, developmental psychology, testing and individual differences, treatments of psychological disorders, and social psychology. Throughout the course, students employ psychological research methods, including ethical considerations, as they use the scientific method, evaluate claims and evidence, and effectively communicate ideas. AP Psychology course is designed to be the equivalent of the Introduction to Psychology course usually taken during the first college year. There is a fee for the AP Psychology exam. Students are also able to take the course for Dual Credit, earning both high school and college credit simultaneously. There is a course fee for the Dual Credit due at the beginning of the semester.

ADVANCED PLACEMENT UNITED STATES HISTORY

10-11-12

APUSH is a college-level course for sophomores, juniors or seniors who wish to deepen their understanding of United States history. Students read, analyze, and evaluate a wide variety of material including primary source documents and scholarly writing. Students apply their own research and knowledge of historical events to discuss, debate, and write about controversial issues in U.S. History. The course is recommended for students with an interest in U.S. History or who wish to pursue a major in social studies. There is a fee for the AP U.S. History exam.

ADVANCED PLACEMENT WORLD HISTORY

9-12

AP World History is the study of human societies in all major regions of the world from 1250 - the present. An emphasis is placed on the similarities and differences between these societies and what has caused change within them over time. Furthermore, students will gain extensive practice in college level writing and document analysis with the goal of preparing them for the rigor of the next level. This course will not only provide students with an understanding of the past, but also encourage them to develop the skills historians use to study world history. There is a fee for the AP World History exam.

THEOLOGY

| COURSE | GRADE | CREDITS | |
|------------------------------------|------------|---------|--|
| BIBLE CONCEPTS | 9-10-11-12 | 2.0 | <i>Required if not placed in Old Testament (based on placement test)</i> |
| OLD TESTAMENT | 9-10-11-12 | 2.0 | <i>Required</i> |
| LIFE OF CHRIST | 10-11-12 | 2.0 | <i>Required; Prerequisite: Old Testament</i> |
| EPISTLES AND CHRISTIAN LIFE | 11-12 | 1.0 | <i>Prerequisite: Old Testament and Life of Christ</i> |
| APOLOGETICS | 11-12 | 1.0 | <i>Prerequisite: Old Testament and Life of Christ</i> |
| WORLD RELIGIONS | 11-12 | 1.0 | <i>Prerequisite: Old Testament and Life of Christ</i> |
| THE CHURCH | 11-12 | 1.0 | <i>Prerequisite: Old Testament and Life of Christ</i> |
| WORSHIP LIFE | 11-12 | 1.0 | <i>Prerequisite: Old Testament and Life of Christ</i> |
| COMPARATIVE ORIGINS | 11-12 | 1.0 | <i>Prerequisite: Old Testament and Life of Christ (Cross-referenced with Science Department)</i> |
| MISSION, MINISTRY, SERVICE | 12 | 1.0 | <i>Department Approval</i> |

BIBLE CONCEPTS

9-10-11-12

This course is designed to teach an introduction to fundamental concepts of the Christian faith. Content includes training about the Bible, the stories of the people found in it, and how it applies to basic Christian teachings including the Ten Commandments, Lord's Prayer, Baptism, and Communion.

OLD TESTAMENT

9-10-11-12

This course is devoted to a chronological study of the Old Testament. The faith and the lives of the people, especially in their Covenant relationship with the Lord, are studied in order to provide a fuller and deeper understanding of the student's own relationship with God. Special emphasis is placed on the Messianic prophecies and their fulfillment in our Lord Jesus Christ. Emphasis is also placed on the relevance of Old Testament History in the real-life situations and on interpersonal relationships of students in today's world.

LIFE OF CHRIST/ACTS

9-10-11-12

This course includes several major topics of New Testament study. There is an emphasis on the Life of Christ and the History of the New Testament Church through Paul's life. Further study of the New Testament provides a brief description of each of the Epistle Writings, along with the topic of witnessing. Included also is a discussion of Worship in the Church.

EPISTLES AND CHRISTIAN LIFE

11-12

In this course, the study of the letters written by the Apostles in the New Testament will guide instruction regarding application of Christian principles and teachings in our daily lives.

THEOLOGY

APOLOGETICS

11-12

The focus of this class will be defending basic questions about Christianity. An emphasis on proper responses to questions regarding the existence of God, the reliability of the Scriptures, who Jesus is, and more.

WORLD RELIGIONS

11-12

This course includes the study of Christian denominations, Pseudo Christian religions, and non-Christian religions. Class work will clarify what makes each religion unique, what similarities and differences there are between them, and how each one views the person of Jesus, His work, and its meaning for us.

THE CHURCH

11-12

In this course, students will gain an understanding of the life of the Christian church from its origination at Pentecost through the Reformation era. Issues of evangelism, persecution, doctrines, heresies, and the individuals who played a major role in those will be studied in depth.

WORSHIP LIFE

11-12

This course provides an in-depth look at the “what”, “where”, and “why” of worship in the life of a Christian and the Church.

COMPARATIVE ORIGINS

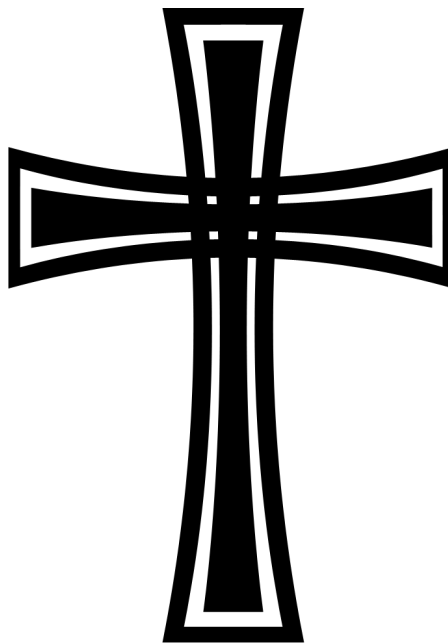
10-11-12

This course aims to answer the question “Where did it all come from?”. Whether talking about the universe, the world, or the human race, this class explores the origin of everything. Topics include (but are not limited to) the big bang, evolution, radiometric dating, and the fossil/geologic records and how they point toward the Bible, not away from it. Students who pass this faith-building science class will know how to think critically about these controversial issues and be ready to face them in a university setting. Prerequisite: Biology—though the class is geared toward juniors and seniors with a solid science background. This course is cross-referenced with the Theology Department.

MISSION, MINISTRY, SERVICE

12

In this course, students will have the opportunity to apply instruction through development of and participation in mission trips, ministry internships, or service projects.



WORLD LANGUAGES

| COURSE | GRADE | CREDITS | |
|---|------------|---------|---|
| SPANISH 1 | 9-10-11-12 | 2.0 | |
| SPANISH 2 | 9-10-11-12 | 2.0 | <i>Prerequisite: Spanish 1 Accelerated Placement possible</i> |
| SPANISH 3 | 10-11-12 | 2.0 | <i>Prerequisite: Spanish 2 Dual Credit Available</i> |
| SPANISH 4 | 11-12 | 2.0 | <i>Prerequisite: Spanish 3 Dual Credit Available</i> |
| SPANISH COMMUNICATIONS & CULTURE | 10-11-12 | 2.0 | <i>Prerequisite: Spanish 3 Accelerated Placement possible</i> |
| SPANISH FOR HERITAGE LEARNERS | 10-11-12 | 2.0 | |

SPANISH 1 **9-10-11-12**

This course introduces the student to basic vocabulary and culture, through reading, writing, listening, and speaking. Present tense, past tense and commands are studied. Students are introduced to the rich culture and heritage of the Hispanic and Latino worlds.

SPANISH 2 **9-10-11-12**

This course is a review of previously studied vocabulary and grammatical structures (present and past tenses, commands, etc.) learned in Spanish 1. Students learn additional vocabulary, grammatical structures, and verb tenses, and work toward accuracy and fluency. Emphasis is placed on understanding and producing spoken and written work. The culture and customs of Spanish-speaking people are woven into the fabric of the course.

SPANISH 3 **10-11-12**

This is an intermediate course that polishes reading, writing, listening and speaking skills. More attention is placed on fine details than was in the previous courses. Advanced tenses and moods have more emphasis than do the basic ones. Students will present projects that challenge and encourage them to use Spanish in original and creative ways. The culture and everyday customs of Spanish-speaking people are woven into the fabric of the course. Through Concordia's Dual Credit Program, this course may be taken for 3 hours of college credit. This course is graded on a 5-point scale.

SPANISH 4 **11-12**

This is a course involved with mastering the finer points of Spanish grammar. More in-depth reading of short stories and novels is emphasized. Significantly more time is spent in oral conversation and in understanding native speakers. Students will present projects that challenge and encourage them to use Spanish in original and creative ways. The culture and everyday customs of Spanish-speaking people are woven into the fabric of the course. Through Concordia's Dual Credit Program, this course may be taken for 3 hours of college credit. This course is graded on a 5-point scale.

SPANISH COMMUNICATION & CULTURE **10-11-12**

Students will strengthen their speaking and listening skills by discussing stories, movies, songs, articles, realia, video clips, websites, current events, and other media. Students will gain a better understanding of the diverse cultures that comprise the Spanish-speaking world at the same time.

SPANISH FOR HERITAGE LEARNERS 1 **10-11-12**

This course is designed specifically for heritage Spanish students who have developed some degree of Spanish proficiency in a non-academic setting. This first year communicative course recognizes the value of existing Spanish language skills and builds on previous knowledge, while increasing confidence in speaking, listening, reading, and writing. Students will expand their vocabulary, improve orthography, and develop a deeper understanding of grammar structures while celebrating their own unique heritages and cultures. Non-linguistic areas of study include Latin American and Spanish culture, identity and bilingualism, music, and literature. Spanish dialects and regionalisms are also discussed.

WORLD LANGUAGES

| COURSE | GRADE | CREDITS | |
|---------------------------|------------|---------|---|
| MANDARIN CHINESE 1 | 9-10-11-12 | 2.0 | <i>Dual Credit available</i> |
| MANDARIN CHINESE 2 | 10-11-12 | 2.0 | <i>Prerequisite: Mandarin Chinese 1 Dual Credit available</i> |
| MANDARIN CHINESE 3 | 11-12 | 2.0 | <i>Prerequisite: Mandarin Chinese 2 Dual Credit available</i> |
| MANDARIN CHINESE 4 | 12 | 2.0 | <i>Prerequisite: Mandarin Chinese 3 Dual Credit available</i> |

MANDARIN CHINESE 1

9-10-11-12

Chinese 1 introduces students to the Chinese language by learning both Pinyin (the Chinese phonetic system in English letters) and Chinese characters. Students will learn basic words, phrases, and sentences useful in daily life through listening, speaking, reading, and writing. Students will also experience a wide range of Chinese cultural activities. Dual credit is available for this course.

MANDARIN CHINESE 2

10-11-12

Students will continue the study of Chinese language through listening, speaking, reading, and writing. Students will learn more basic vocabulary and sentence structures for use in essential everyday situations. Students will also experience a wide range of Chinese cultural activities. Dual credit is available for this course.

MANDARIN CHINESE 3

11-12

Chinese 3 is designed for students who have fulfilled the requirements of Chinese 2. Students will continue to engage in interpersonal, interpretive, and presentational communication tasks to improve the four skills of language learning. Students will gain understanding of basic aspects of Chinese culture such as festival food and important places in China. Dual credit is available for this course.

MANDARIN CHINESE 4

12

Chinese 4 is designed for students who have fulfilled the requirements of Chinese 3. Students will continue to engage in interpersonal, interpretive, and presentational communication tasks to improve fluency in speaking, reading, and writing. Communication skills are refined with emphasis on sentence structures with higher level of syntax complexity. Students read and discuss social issues and cultural features such as pollution, the generation gap, and medicine. Students will also write paragraphs concerning social issues using culturally appropriate vocabulary and structures. Dual credit is available for this course.

WORLD LANGUAGES

| COURSE | GRADE | CREDITS | |
|-----------------|--------------|----------------|--|
| FRENCH 1 | 9-10-11-12 | 2.0 | |

FRENCH 1

9-10-11-12

This first-year French class will introduce language skills in the areas of reading, writing, listening, and speaking. The course will also expand students' cultural knowledge of the French-speaking world. The main goal of this class is for students to become more comfortable with understanding and expressing themselves in French. The format of this course will include lectures, group discussions, and guided interactions in French. Students will practice French with film/video activities, web-based activities, and reading and writing assignments. Throughout the semester, students will also complete individual and group presentations. Classes will be conducted in a combination of French and English. By the second semester, students are expected to express themselves primarily in French. English will be used for more complex instructions.

WORLD CULTURES



WORLD CULTURES PROGRAM

Department Placement Grades 9-12

Lutheran High School Association of Greater Milwaukee proudly presents Martin Luther High School's World Cultures Program. LHSAGM's World Cultures Program celebrates the diverse population that we serve. Our World Cultures program continues to be a leading example as one of these most vibrant models of learning for both outreach and effective connection in our city and around the globe. With a remarkable team of qualified, passionate professionals and in partnership with our talented staff, this program serves students from an array of different countries. We thank God for the impact He is making through this program, and strongly encourage you to reach out to staff for more information. Connect with us about how this opportunity can best serve you!

International students that wish to attend one of the Lutheran High School Association of Greater Milwaukee schools should complete the Application Form available online at:

<https://www.martinlutherhs.org/world-cultures>.

