

## LMHS COURSE CATALOG CONTENTS

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# LANCASTER MENNONITE SCHOOL 

Lancaster Campus (grades 6-12)
Locust Grove Campus (grades PreK-8)
New Danville Campus (grades PreK-5)

## Purpose Statement

Changing our world through innovative Christ-centered education

Lancaster Mennonite School provides PreK-12 education in a diverse community that nurtures students to become creative and innovative learners who are prepared for college, career and life.
Centered in Christ and committed to education excellence, students are empowered to change the world through Christlike love, peacemaking and service.

## Vision Statement

LMS will be a leader in PreK-12 educational experiences of excellence and character. Through local and global connections in a Christ-centered community lives will be transformed and our world changed.

## Identity

Lancaster Mennonite School is a mission of congregations of the Mennonite Church USA. It is warmly ecumenical and welcomes students from these and other congregations who share the mission of the school. Students are admitted without regard to race, gender or national origin.

## Memberships

Lancaster Mennonite School is accredited by the North Central Association Commission on Accreditation and School Improvement division of AdvancED and the Mennonite Education Agency. Lancaster Mennonite School is a member of the Mennonite School Council and the Lancaster-Lebanon Athletic League.

## High School Graduation Requirements

To graduate from LMH students must earn 25 credits and satisfactorily complete the senior presentation. Specific credits in grades 9-12 must be earned in the following areas.

| Bible, for each year enrolled | .5 credit |
| :--- | ---: |
| English | 4.0 credits |
| Social Studies | 3.5 credits |
| Mathematics | 3.0 credits |
| Science | 3.0 credits |
| Health, Safety \& Physical Education | 2.0 credits $(1.0$ Health +1.0 PE $)$ |
| Fine or Practical Arts | 1.0 credit |

Fine and Practical Arts include agriculture/science technology, art, family and consumer sciences, music and technology education.

At least two years of world language is recommended for most students.
Students will maintain a vocational portfolio in grades 9-11. Advisors guide students in reflection of their experiences. Students use documents from their portfolio to give a presentation in their senior year of high school. The goal of a senior presentation is for students to reflect on their life so far, to acknowledge appreciation for those who have nurtured them, and to anticipate their future.

The Portfolio and Presentation will help students to:

- Discover their interests, skills, passion, and God's calling in their lives, realizing that this discovery is a process and not a conclusion.
- Reflect upon stewardship of God-given gifts and resources
- Discern their personal characteristics and Christian ethics needed for a vocation
- Become aware of how their potential career can be Christ centered and missional
- Review their personal high school plan in light of their current vocational goals
- Select post-secondary opportunities that match their personal vocational interests and goals


## Mini-courses and Class Experiences

Lancaster Mennonite School realizes that many significant lifelong skills and interests are developed outside the classroom setting. Mini-courses for grades 11 and 12 and class experiences for grades 9 and 10 provide opportunities for students to learn with their peers and teachers and benefit from teachers' expertise and creativity.

Mini-courses are a minimum of three days and may include overnight trips or day trips for those three days. Students may count school-led summer trips as their mini-course prior to their junior or senior years. Mini-courses focus on an academic area and/or service and occur every two years (spring of even years). Students receive a pass/fail grade for 0.25 credit.

The theme for the Freshman Experience is Building Community and the theme for the Sophomore Experience is Creation Care. Some class experiences for grades 9 and 10 occur yearly, while some occur every two years when minicourses occur.

## Recommended Sequence of Classes for Students attending LMH for Four Years

Grade 9
English
Social Studies
Mathematics
Science
Bible
Physical Education
Health
Electives

Grade 10
English $\quad 1.0$ credit
Social Studies . 5 credit
Mathematics $\quad 1.0$ credit
Science $\quad 1.0$ credit
Bible . 5 credit
Physical Education . 5 credit
Health .25 credit
Drivers Education . 25 credit
Electives

Grade 12
English
English elective
Social Studies
Bible
Mathematics Recommended
Science Recommended
Electives
. 5 credit
.5 credit
1.5 credit
.5 credit

Bible
Electives
. 5 credit
.5 credit
1.0 credit
1.0 credit
1.0 credit
. 5 credit

All transfer students should check with their school counselor concerning any deviation from this program.

## Grading Standards

| A Superior | $90-100$ |
| :--- | :--- |
| B Good | $80-89$ |
| C Average | $70-79$ |
| D Below Average | $60-69$ |
| F Unsatisfactory | Below 60 |

An incomplete is given only for emergency reasons approved in advance by the teacher and school counselor. An incomplete must be removed within two weeks after the student's return to school or the grade becomes an F .

## High School Course Selection

Students should plan their educational programs and course selections carefully, then follow the plan they have chosen. Any necessary changes to courses and schedules must be made within the first two weeks of a semester. After the second week, changes are permitted only for health emergencies with the approval of the principal.

Several courses have lab fees noted in the course descriptions. Lab fees need to be paid by the end of the second week of the semester.

Courses marked with an asterisk $(*)$ in the Curriculum Planning Guide are especially recommended for college-bound students.

AP courses and dual enrollment courses are weighted in our grading system using 1.2 as a multiplier factor when determining GPA. Lancaster Mennonite offers the following:

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AP & Dual Enrollment Courses
AP Biology
AP Calculus AB
AP Calculus BC
AP Chemistry
AP Comparative Government and Politics
AP Computer Science Principles
AP Computer Science A
AP English Composition (dual enrollment with Harrisburg Area Community College)
AP Introduction to Literature (dual enrollment with Harrisburg Area Community College)
AP Physics C: Mechanics
AP Psychology
AP Spanish
AP Statistics
AP U.S. Government and Politics
AP U.S. History (dual enrollment with Harrisburg Area Community College)
AP World History
Spiritual Formation (dual enrollment with Eastern Mennonite University)
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Students need to register for at least six class periods daily for six semesters and seven class periods for two semesters to earn the required 25 credits. Alternate course selections will be used to replace electives if scheduling conflicts occur. Exceptions require school counselor approval.

## COURSE DESCRIPTIONS

## AGRICULTURE SCIENCE \& TECHNOLOGY

Agriculture education provides opportunities for learning in the applied sciences, technology and business environment. The agricultural sciences create opportunities which challenge students to apply the scientific method to areas as diverse as landscaping, forest management and animal nutrition. Students develop vocational skills and knowledge necessary for work in the local and global communities. Emphasis is placed on Christian stewardship of natural resources and biblical ethics in work and business.
$\underline{\text { Recommended Sequence of Classes for Agriculture Science \& Technology Students: }}$
Environmental Science (Grade 9)
Intro to Ag Science (Grade 9-10)
Forestry \& Environment (Grades 9-12)
Horticulture (Grades 9-12)
Power Technology Small Engines (Grades 10-12)
Animal Biotechnology (Grades 9-12)
Wildlife and Fisheries Science (Grades 10-12)
Construction Technology (Grades 11-12)
Welding \& Mechanics Technology (Grades 11-12)
Ag Business Economics (Grades 11-12)
Accounting I (Grades 10-12)

Recommended Classes for College-bound Agriculture Science \& Technology Students:
Intro to Ag Science
Animal Biotechnology
Horticulture and/or Forestry \& Environment
Pre-Calculus
Chemistry or Honors Chemistry
Physics, Honors Physics or AP Biology
Advanced Writing or Career English
Power Technology and/or Welding \& Mechanics Technology and/or Construction Technology
Ag Business Economics
Two years of a World Language

FFA To be part of the FFA, students are required to elect at least one agriculture course each year. Leadership training, public speaking and other life skills gained in the FFA prepare students for post high school experiences. The FFA meets during the co-curricular periods. Students in grade 9 should enroll in Environmental Science first semester and Ag Business Economics I second semester. Independent Study Ag. is offered for most courses in cases where it is impossible for students to schedule an Ag course to meet FFA credit.

601 FORESTRY AND ENVIRONMENT. Students learn to identify many of the trees common to the northeastern United States. This course includes units on multiple uses of the forest such as lumber, energy, wildlife, conservation and reforestation. Students will also contribute to the preservation of the environment. This course may count as 0.5 Science credit.
First semester for grades 9-12.
0.5 credit

WILDLIFE AND FISHERIES SCIENCE. Students will learn about the different aspects and career opportunities of wildlife and fisheries management and natural resource conservation. This course will include units on identification, habitat management, and small mammal study. Outdoor activities and studies will use the campus woodlands and aquatic areas as an outdoor lab. The course counts as 0.5 science credit. First or second semester for grades 10-12.

ANIMAL BIOTECHNOLOGY (veterinary and animal production). Students explore practical aspects of animal reproduction, nutrition and health. (Units include dairy, swine, beef and horses.) This course provides an excellent foundation for agri-business careers, farmers and introductory vet-science for college freshmen. This course may count as 0.5 Science credit.
First or second semester for grades 9-12.
0.5 credit

CONSTRUCTION TECHNOLOGY. Students learn the basics of electrical wiring, plumbing, and masonry. Students order material for a utility shed, lay out a floor plan and design simple roof trusses. Students also construct one or more storage type buildings. Students will pay for parts, materials used, as well as a small deposit for safety equipment.
First or second semester for grades 11-12.
0.5 credit

POWER TECHNOLOGY SMALL ENGINES. This course provides students with a theoretical and practical background in operating, maintaining, trouble shooting and repairing of small gasoline engines. Anyone planning to own a car or other motorized equipment will benefit. Students will pay for materials used, as well as a deposit for safety equipment. This course counts as 0.5 science credit. Prerequisite: Tech and Design. First or semester for grades 10-12.

HORTICULTURE. Students learn knowledge and skills involved with greenhouse management, plant propagation, integrated pest management (IPM), and landscape work. The landscape component may include developing a landscape plan. This course involves many hands-on lab activities, and during spring weather, students work outdoors in practical landscape care. This course counts as 0.5 science credit.
Second semester for all grades.
0.5 credit

WELDING AND MECHANICS TECHNOLOGY. Emphasis is on modern processes of joining and separating steel, sheet metal, etc. Skills are learned using the arc welder, plasma cutter, mig welder, assembly and equipment restoration. Student projects include steel fabrication, tractor restoration and large engines. Students will pay for parts, materials used, as well as a deposit for safety equipment. Students interested in advanced welding training should plan to take both semesters. Prerequisite: Technology and Design. First or second semester for grades 11-12.

INTRODUCTION TO AG SCIENCE. A leadership class for beginning FFA members where students learn management entrepreneurship, record keeping and other skills required for success in the FFA and in future business operations. The impact of Pennsylvania's agricultural commodities in the global marketplace will be taught through team projects. Highly recommended for first year FFA members.
Second semester for grades 9-10 and other first year FFA members with FFA advisor approval. 0.5 cr .
AG BUSINESS ECONOMICS. Economic principles are taught in an atmosphere of discussion. Classroom projects that simulate real-life situations encourage students to explore management strategies that maximize profits. Students learn how to manage credit for personal and business purposes. Meets requirements for Economics in the Social Studies department.
First semester for grades 11-12.
0.5 credit


#### Abstract

ART As a means of communication, the visual arts enable a student to observe, explore, and respond to life through many media and design skills. Discovering the creative process can draw one to the ultimate creator-God. Art courses cultivate reflection, criticism, and aesthetic sensitivity to cultural expressions worldwide. This awareness and appreciation for all of God's earth and people lead to constructive creativity and career choices which nurture our global society.


Courses with the ${ }^{* *}$ are considered foundational courses for students pursuing an art career.
201 ARTBEAT. An excellent foundation for all the other art electives, this course focuses on what art is and why people create it. Students work with a variety of media and techniques, including drawing, painting, sculpting, and working with clay. Weekly lessons in art history help students appreciate a wide variety of art and artists. First semester for grades 9-12.

204 DRAWING. Emphasis is on learning to see. Basic drawing skills are developed along with experiments utilizing many techniques (contour, gesture, value) and media (pen and ink, brush, conte', charcoal, scratch board). Daily sketchbook assignments focus on development of specific drawing skills.
Prerequisite: Artbeat or equivalent.
Second semester for grades 9-12.
0.5 credit
**206 PAINTING. This studio course provides experience in acrylic and watercolor painting. Emphasis is on color theory and the elements and principles of design. Students will experiment with unusual materials (sand, salt, rice paper), colors, and textures to enhance their paintings.
Prerequisite: Drawing or instructor's permission.
Second semester for grades 10-12. (Lab fee \$25)
0.5 credit
**202 TWO DIMENSIONAL DESIGN. Learn to use the elements and principles of design to create exciting twodimensional artwork. Students will experiment with many techniques and media (pen and ink, colored pencils, acrylic paints, pastels, and more). Units in basic design, printmaking, and commercial art (typography and layout) are included in this studio course.
Prerequisite: Artbeat or equivalent.
First semester for grades 9-12. 0.5 credit
**207 SCULPTURAL DESIGN. Learning to use the elements and principles of design in their projects, students create three-dimensional forms in a variety of media, including wire, plaster, stone, clay and found objects. Studies in art history focus on the prehistoric to modern art periods. Prerequisite: Artbeat or equivalent. First semester for grades 9-12.
0.5 credit

ART IN ACTION. Students put their artistic skills to active use beyond the classroom. Students will produce art with practical applications such as murals, illustration for publication, program covers, arts in chapel, public art and others. Group and individual projects may integrate art with skills from other disciplines. Emphasis on good design, excellent craftsmanship, communicating positive values, exploring career options and service to school and community.
Prerequisite: Artbeat or equivalent.
Second semester for grades 9-12 in alternate years. Offered 2021-2022.
0.5 credit

CERAMICS. Hand-building techniques and wheel-throwing skills are the focus of this course. Works by master potters and crafts persons are studied in conjunction with student projects. Both functional and sculptural/design assignments provide a wide range of experience in clay.
Prerequisite: Artbeat or equivalent. (Lab Fee - \$30)
Second semester for grades 9-12 0.5 credit
**211 ADVANCED STUDIO. Students will study their choice of drawing, painting, or three-dimensional design by following Advanced Placement Portfolio Guidelines. Course work combines art theory (self-paced study), sketchbook assignments, discussions, and independent projects.
Prerequisite: Normally students follow the sequence of taking Artbeat, Drawing and Painting or 2-D or 3-D, but they can enroll with special permission from an art instructor. (Lab fee $\mathbf{\$ 2 5}$ per semester)
First or second semester for grades 11-12.
0.5 credit

217 INTRODUCTION TO PHOTOGRAPHY (Silver-based and digital). This course is an introduction to the field of Photography, both "classic" photography (film cameras, silver-based technology, wet darkroom, black-andwhite photographs) and digital photography (computer "darkroom," Photoshop, output to the web and to paper prints). Students learn to use their cameras better, to take more interesting, better-designed photographs, and to work with silver and digital methods for doing photography. Students must have access to a 35 mm film camera capable of being used manually (LMH has film cameras for rent if necessary) and a digital camera. An excellent foundation for all other photography classes. \$75 lab fee. Required for student publication photographers.
First or second semester for grades 9-12.
0.5 credit

213 PHOTOGRAPHY II (Silver-based). This course emphasizes broadening and deepening photographic skills for students who love working in a traditional darkroom. Students explore creative use of camera controls, existing and studio lighting, flash techniques, the history of photography and principles of good composition. Class members make portraits, learn special darkroom techniques and become "master printers." The class also chooses from a variety of projects, which often include photographing with antique cameras, hand coloring photographs, doing pinhole photography, completing a color photography project and more. \$100 lab fee. Prerequisite: Grade "B-" or higher in Introduction to Photography. First or second semester for grades 10-12.
0.5 credit

214 DIGITAL PHOTOGRAPHY. Students continue making photographs, learning to use all the capabilities of their cameras, and improving the design of their images. Emphasis is on learning to use digital cameras, scanners, Photoshop and desktop printers for doing photography as well as continuing to develop "a photographic eye." Class members sharpen their basic image editing (Photoshop) skills, as well as learn more advanced Photoshop tools such as curves, layers and masks. Ethical issues relating to digital imagery are explored. The course affords students the opportunity to do color photography, and helps students get started in photojournalism, commercial photography and fine art photography directions. Students must have access to a digital still camera capable of making images of at least 5-6 Megapixels. \$40 lab fee. Highly recommended for student publications photographers. Prerequisite: Grade of B- or higher in Introduction to Photography. First or second semester for grades 9-12. 0.5 credit

## BIBLE AND CHURCH HISTORY

The Bible curriculum at Lancaster Mennonite is designed to teach biblical truth, strengthen Christian convictions and assist youth in their faith journey. God is recognized as Creator of the universe. The message of God's power and faithfulness is presented through the biblical story. We believe God's ultimate revelation has come in the incarnation of Jesus Christ.

Students are challenged to make Jesus both Savior and Lord of their lives. Students learn how the Church grew from a small group of believers in Palestine into the global body of Christ. Similarities and differences of Christianity's major branches are surveyed to discern their fundamental tenants of faith. The Sermon on the Mount and the Epistles become foundational as students are called to personal faith and a life of peacemaking, servanthood and mission.

105 INTRODUCTION TO BIBLE. This course is designed to introduce international students to the Bible. Topics include navigation of the Bible and its contents, the God of the Bible, the centrality of Jesus Christ, the rise and spread of Christianity as a religion, and the concept of Church and Christian celebrations. In this course students will learn of key stories from the Old and New Testaments.
First or second semester course
101 CREATION \& PROMISE. This Bible course takes a thematic view of God's narrative with humanity. The course begins with an introduction and overview the Bible. Following the Old Testament narrative, the themes covered in this course include: caring for God's creation; listening to God's voice; living God's way; and working for God's shalom. Each theme is studied using stories from the Old Testament, New Testament and more modern stories of God's interaction with humanity. The themes of the course align with the Anabaptist Faith Practice Statements of Lancaster Mennonite School. Required.
First or second semester for grade 9.
0.5 credit

103 JESUS' STORY. This Bible course takes a thematic view of God's narrative with humanity. The course begins with an introduction and overview of the New Testament. Following the life of Jesus, the themes covered in this course include: following God's call to love; being known and loved by God; celebrating diversity; being a citizen in the upside-down Kingdom; and practicing grace and forgiveness. Each theme is studied using stories from the Old Testament, New Testament and more modern stories of God's interaction with humanity. The themes of the course align with the Anabaptist Faith Practice Statements of Lancaster Mennonite School. Required.
First or second semester for grade 10.
0.5 credit

104 GLOBAL CHRISTIANITY. This class is a study of Global Christianity from the birth of the church through the formation of Roman Catholicism, Eastern Orthodox and other non-Western Christian faith streams, and the Reformation with an emphasis on the rise of the Anabaptist movement. This is followed by a study of the development and growth of the Anabaptist movement in North America and around the globe, other denominations, the rise of non-denominational churches and the Pentecostal movement. The class examines the current relationship between Christianity and culture, including other world religions, in settings around the world. Students are helped to understand their faith as they study Christianity in a global context. Required. First or second semester for grade 11.
0.5 credit

107 KINGDOM LIVING. The themes for this course are: philosophy and theology; engaging with world religions; spiritual disciplines; and living in God's Kingdom. This senior level Bible course challenges students to reflect on their own faith journey and culminates with a capstone project that focuses on an area of interest/service for the student, and how that interest/service connects to their own personal faith journey. Required.
First or second semester for grade 12.
0.5 credit

SPIRITUAL FORMATION. This is a dual enrollment course with Eastern Mennonite University. This course may be taken instead of Kingdom Living I and serves as an introduction to Christian Spiritual Formation, its roots in history as well as its present day implications on both a personal and communal level. It is grounded in the understanding that God is always active in our lives and in the world around us. Spiritual disciplines are one way that we open our eyes, ears, and hearts to God's message for us and for the world. Looking and listening to God's movement enables us to comprehend in a deeper way what it means to be a follower of Jesus in our broken world. Lectures, readings, discussions, papers, journal entries, meeting with a spiritual companion, weekly experiences with a small group and a class retreat form the basis for mutual learning. There is a cost for the dual enrollment and retreat.
First or second semester for grade 12 students with a " B " or higher average. 0.5 credit

## BUSINESS

The Business, Computer, and Information Technology curriculum is designed to meet the students' personal and career objectives, equipping students for the world of work, further education or mission. Emphasis is placed on both technical and personal skills necessary for success in the modern global business community. Coursework is designed to build a basic understanding of the world of business. An emphasis on ethics and stewardship challenges students to be responsible Christian citizens.

## Keyboarding and Computer Application Skills

Students graduating from LMH should have skills in keyboarding and computer applications as they are needed for college as well as for the students' personal and career objectives. Students should be able to key at a minimum competency range of 30-50 words per minute. All students should have basic keyboarding and computer skills which include word processing (keying letters, reports, and tables), desktop publishing, database management, and spreadsheet preparation.

Math credit is offered for Personal Finance, Business Math, and Financial Accounting
632 INTRODUCTION TO BUSINESS. This course is a basic business course which introduces students to the world of business. Topics include the business environment, forms of business organization, management and leadership, human resources, and financial management.
For grades 9-12
0.5 credit

637 BUSINESS MATH. This course will strengthen the student's everyday math skills. Students review fundamental math principles. Calculations will be learned that apply to business applications, including income, manufacturing, sales, marketing and distribution. This course may count as 0.5 math credit. First semester for grades $10-12$. 0.5 credit

620 PERSONAL FINANCE. Concepts of personal financial management are examined from a Christian perspective. Emphasis is placed on career choice, preparing budgets, keeping personal income and expense records, completing simple tax returns, using credit, and understanding banking. Investments and risk management will be explored. This course may count as 0.5 math credit. For grades 10-12.
0.5 credit
*621 FINANCIAL ACCOUNTING. Financial accounting will introduce students to fundamental aspects of financial accounting. Students will learn to prepare accounting entries, financial statements and how to analyze the work presented. Additionally, students will be faced with real-world situations that business professionals are faced with on a daily basis. A strong emphasis will be placed on teamwork and communication skills. This course may count as 1.0 math credit.
For grades 10-12.
0.5 credit
*630 ENTREPRENEURSHIP. This course will teach students the skills needed to establish and manage a business and the characteristics required of a successful entrepreneur. Students will study and develop a business plan. Other topics studied include marketing, distribution, promotion, selling, financial management, and operations management.
Second semester for grades 11-12
0.5 credit

## COOPERATIVE PROGRAMS

## LANCASTER COUNTY CAREER AND TECHNOLOGY CENTERS

Students in full day classes at the Career and Technology Center will be charged a records fee. Additional part-time fees are charged for students taking one or more classes on the Lancaster Campus.

645 CAREER \& TECHNOLOGY. Juniors and seniors could be eligible for part-time or full-time 646 enrollment in certain vocational programs offered through the Lancaster County Career \& Technology Center (LCCTC). A variety of programs are available related to the following fields: cosmetology, construction, technologies and visual communication. Descriptions of programs can be found online. Career and technology center students will complete a project at LCCTC that will count for their senior presentation. Anyone interested should consult with their school counselor as early as the sophomore year to plan accordingly. 3.0 or 6.0 credits available.

## DIVERSIFIED OCCUPATIONS AND SERVICE

Diversified Occupations and Service is designed to benefit both students who will enter the job market after graduation and those who continue their formal education. Diversified Occupations and Service educates students to realize the many occupational opportunities in society and to evaluate their interests and abilities. It also enables them to acquire valuable skills and knowledge, and to provide the opportunity for realistic job experiences. Students are helped to understand that to be a Christian is our primary vocation regardless of how we may earn a living.

644 DIVERSIFIED OCCUPATIONS. Students will be required to be in the classroom the first few days of class to complete required paperwork. This class provides students with the opportunity to receive occupational instruction and realistic on-the-job experiences that cannot be offered in the classroom setting. Students are required to find their own employment with an employer who is willing to participate in such a program. Students are required to work at least 15 hours a week for the full semester, usually during the three afternoon classes and in many cases until 5:00 p.m. International students must have valid U.S. working papers. The students will also plan and attend a breakfast banquet for all of the employers at the end of the semester. The program is flexible to meet the needs of individual students.
Second semester for grade 12.
1.0 credit

SERVICE. Service provides students an opportunity to help a teacher. No credit is given for this experience. .0 credit

PEER TUTORING. Students will have the opportunity to explore the teaching profession working in Learning Support or with middle school students. They will contribute to the education of individual students or small groups of students through individualization, modeling, motivation, and develop an understanding of similarities they share. Students participating in this program must have a satisfactory school conduct grade and need to be approved by the faculty member they are working with and a guidance counselor. Students should indicate their interest in Peer Tutoring on their course selection form each year.
First or second semester for grades 9-12
0.5 credit

## ENGLISH

The study of language arts develops the communication skills students will need in their work place, in further education and in service for the Kingdom of God. As students read and respond to literature from various times and cultures, they begin to understand more about themselves, the world, and questions and values of their society. Learning critical thinking skills enables students to become discerning consumers of mass media. By reading on a regular basis, students establish reading habits which provide lifelong recreation and access to information. Thinking and communication skills enable students to articulate their ideas, feelings, values and faith.

Students are required to earn a minimum of four English credits for graduation.

| Foundations of English | 1.0 credit |
| :--- | :--- |
| English 101 | 1.0 credit |
| Writing Courses | 1.0 credit |
| Literature Courses | 1.0 credit |
| Communications and Analysis | 0.5 credit |
| Other | 0.5 credit |

## COMPOSITION SEQUENCE


*footnote: Journalism and Creative Writing are electives.
Communication and Analysis is required.

218A FOUNDATIONS OF ENGLISH. This is a skill-building course designed to prepare students to develop the necessary literacy skills to succeed in English 101, and to provide a foundation in reading level development, vocabulary building, writing and editing strategies, and study skills. Students may only take this course at the recommendation of Learning Support, Guidance, or the teacher.
Yearlong course
1.0 credit

221A ENGLISH 101. Writing, grammar, and vocabulary are studied in conjunction with literature. Units of

COMMUNICATION AND ANALYSIS. The purpose of this course is to study and practice the life skills of listening, speaking, and writing. This media literacy course emphasizes the organization and presentation of information for various purposes and audiences. Contemporary uses of media, including entertainment and advertising, are analyzed and evaluated from a Christian perspective. Semester course required of all juniors. First or second semester for grade 11 .
0.5 credit

## Writing Courses

INTRODUCTION TO LITERATURE (Advanced Placement). Designed to develop understanding and to increase human experience through literature, this college level course, when taken in conjunction with English Composition I, is intended to prepare students to take the AP Literature and Composition exam for college credit. The major literary types (poetry, fiction, and drama) are defined and illustrated through examples drawn from English and American literature as well as other literatures of the world. By paying an additional registration fee and course fee and taking a placement exam, students may receive college credit for this course through Harrisburg Area Community College (HACC). This is a weighted class. First semester for grade 12.
0.5 credit

ADVANCED READING. Designed for the student with above average ability and self-discipline, this course allows students to plan their own curriculum from a list of books suggested for the college bound. Students receive guidance in reading critically and respond in writing and orally to each book read. Second semester for grades 11-12.
0.5 credit

BRITISH LITERATURE. Students study the major authors of the principal literary periods from Beowulf to 20th century poetry such as Shakespeare and Romanticism, and become aware of recurring themes that link students of today with people of all times.
Second semester for grades 10-12.
0.5 credit
*244 U.S. LITERATURE. A survey course sampling United States literature from the colonial times through the $20^{\text {th }}$ century, U.S. Literature will explore how works relate to their historical and social contexts, the Christian worldview, and their writers' view of life. U.S. Literature will correlate to the AP U.S. History curriculum. One semester course for grades $10-12$
0.5 credit
*246 WORLD LITERATURE. Students will examine classic and contemporary world literature, exploring thematic threads which connect the works despite their varied cultural traditions, helping to broaden the students' perspectives. Designed for the student with above average ability and self-discipline, this course allows students to plan their own curriculum from a list of books suggested for the college bound. Students receive guidance in critical reading and respond orally and in writing to each book. One semester course for grades $10-12$
0.5 credit

LITERATURE OF THE CHRISTIAN FAITH. Selected works of various types from Christian writers are studied as literature and as inspirational writings. The use of Christian themes by non-Christian authors is also noted.
One semester course for grades 10-12.
0.5 credit

THEMES IN LITERATURE. The literature studied is organized around themes of high interest to students. Themes include death, love, courage, and friendship.
First second semester for grades 10-12 0.5 credit

## Electives

JOURNALISM. This course introduces students to the various types and styles of journalistic writing. An elective course, Journalism is recommended for students considering applying to school publications. First semester for grades 10-12
0.5 credit

SPEECH. Students learn to deal with fear and nervousness and to be confident and effective in a speaking situation. Class activities include group discussions, extemporaneous and memorized speeches, and critiques. An emphasis is on applying speech skills outside of class.
Prerequisite: Communication and Analysis
One semester course for grades 11-12 0.5 credit
DRAMA: PERFORMANCE. This class introduces the art of drama as communication. Students are challenged to develop skill in vocal articulation, projection, improvisation, stage presence, and familiarization with dramatic terms.
Second semester for grades 11-12. 0.5 credit
CREATIVE WRITING. The writing of short stories, poetry, and plays encourages imaginative
expression. For students who enjoy writing and are ready for a challenge.
First or second semester for grades 11-12. 0.5 credit
YEARBOOK. Staff members use a period daily to work on the yearbook. Only students already appointed to the staff should include this in their schedule. Students receive a pass or fail grade. Recommended prior courses: Journalism, Photography, and/or Two-dimensional Design.
First semester for grades 11-12.
0.25 credit

## ESL (English as a Second Language)

ESL classes serve students who are learning English as a non-native language. The goal of ESL is to bring students to a level of English proficiency whereby they can participate fully in other academic courses and transition successfully to postsecondary education.

Initial placement for incoming students is based primarily on the English proficiency test score submitted with the student's application (TOEFL iBT, TOEFL JR, ITEP SLATE or IELTS). Movement between levels is determined by teacher recommendations, grades in ESL and other courses, and updated proficiency test scores. It is not uncommon for students to remain at the same level for multiple semesters. Since most colleges require a TOEFL iBT score of at least 80 for admission, students who desire to exit the high school ESL program are expected to score at least near that level.

Additional fees are charged for all levels of ESL. Fees are adjusted each semester to reflect the student's current level. Please refer to our website or contact our business office for current ESL fees.

ESL LEVEL 2. Level 2 focuses on improving students' basic English skills in reading, writing,
speaking, and listening. Class work and assignments are designed to help students increase their vocabulary and communication skills in order to participate in school life and work toward functioning in a regular classroom. Students in Level 2 do not take another English class. ESL Level 2 meets for three periods each day.
First and/or Second Semester

ESL LEVEL 3. Level 3 serves to help improve students' English communication skills in reading, writing, speaking, and listening to a level where they can begin to function in a regular classroom. Students also receive language level appropriate assignments and testing in their regular courses as well as advocacy by the ESL Level 3 teacher. Students in Level 3 generally do not take another English class. ESL Level 3 meets one period each day.
First and/or Second Semester 0.5 credit

224A
224B

ESL LEVEL 4. Level 4 is designed to assist students with a smooth transition to all regular classes, especially English classes, without modifications. Students focus on vocabulary development, academic writing skills, literature reading and interpretation, and test-taking skills (especially the TOEFL iBT). ESL Level 4 students may, with teacher recommendation, take an additional English course. Students taking ESL 4 are required to take the TOEFL iBT, TOEFL JR., ITEP SLATE, or IELTS as a part of each semester's coursework and grade. A TOEFL/iBT score of 75 or equivalent is needed to successfully complete the program. In addition, students are required to participate in an extracurricular activity. First and/or Second Semester

## FAMILY AND CONSUMER SCIENCES

The Family and Consumer Sciences curriculum is designed to increase students' knowledge and skills in the area of human development, family relationships, consumerism, foods and nutrition, clothing and textiles, and housing and interior decorating. Our goal is to manage with reason and creativity the challenges across the lifespan of living and working in a global society. Emphasis is placed on the responsible and biblical use of resources which incorporate Christian values to enhance the quality of family life.

665 FOODS AND NUTRITION I. This course is an introduction to food preparation, cooking techniques, knife skills, equipment and fundamental nutrition concepts and food appreciation. During lab, the students will prepare a variety of foods such as fruits, vegetables, quick and yeast breads, omelets, crepes, pasta, and grains to reinforce the concepts learned. Every student will participate in a pastry contest in the Fall. Minimum lab fee is $\$ \mathbf{4 5 . 0 0}$
First or second semester for grades 9-12.
0.5 credit

INTERNATIONAL CUISINE. This course will broaden the students global understanding and appreciation of food from all parts of the world, and the rich heritage that has contributed to them while developing International cookery techniques. The students will gain a better understanding of our world by experiencing its food, religion and culture. Weekly food labs will be used to create food from around the world. Minimum lab fee is $\mathbf{\$ 4 5 . 0 0}$.
Prerequisite: Foods and Nutrition
Semester course for grades $10-12 \quad 0.5$ credit
664 CHILD DEVELOPMENT. This course includes not only learning the physical maturation, but also an understanding of how social, emotional and intellectual developments are fostered and hindered. Special topics covered include prenatal development, birth defects, infertility, Child Psychologists, effective parenting skills and the moral implications that touch these subjects. This course is helpful, but not limited, to those interested in the health care field, child care or education.
Second semester for grades 11-12
0.5 credit

667 FASHION AND DESIGN I. This course will emphasize basic elements of clothing design and construction with insights into career possibilities in this field. Students will study history of fashion, fashion designers, textile fundamentals and equipment usage, culminating with the construction of at least three original garments. Students will also have the opportunity to learn alterations and repurposing of clothing. Students will purchase fabric and supplies for their garments.
First semester for grades 10-12.
0.5 credit

670 FASHION AND DESIGN II. This course provides students with the opportunity to learn modern techniques of clothing constructions and the basic elements and principles of design. Students will also research the future of fabrics, ethical clothing and design your own fabric. The students will also learn alteration techniques and how to repurpose clothing. You will have the opportunity to work with Fashion I students through presentations and hands-on help. Students will purchase the fabric and supplies for their garments. Prerequisite: Fashion and Design I
First semester for grades 10-12
668 HOUSING \& INTERIOR DECORATING. This course will allow students to design a future home. Included are housing designs and cultural influences on them, current and historic house styles, floor plans and furniture selection with an emphasis on current trends in home decorating. Career possibilities are explored. Students will also review housing around the world and housing and society. Students develop decision-making skills that can be applied to present and future lifestyles.
Second semester for grades 10-12 in alternate years. Offered 2020-21
0.5 credit

## HEALTH, SAFETY AND PHYSICAL EDUCATION

Maintaining physical health and development is essential for a Christian. Our bodies are the "temples of God" and therefore must be respected and cared for properly. Physical activities not only maintain healthy bodies but also provide an outlet for normal energies and stress. It is hoped that exercise combined with the classroom study of the physical and psychological person will instill in students a meaningful understanding of themselves.

701 CONSUMER HEALTH AND DRIVER SAFETY EDUCATION. The health component explores
information to help students to be wise consumers of health products and services. Specific health units include first aid, health insurance, and substance abuse. The driver education component includes 30 hours of classroom instruction required of a state approved driver safety-training program. Students desiring behind-the-wheel instruction need to make arrange separately for it.
Required in grade 10 (other grades require special arrangement with their guidance counselor).
0.25 credit each for Health/Driver Education 0.5 credit total

PERSONAL HEALTH STRATEGIES. This course focuses on providing the necessary skills and information to help students make informed decisions regarding their personal health. Specific units include mental health, relationships, nutrition, and individual growth and development.
Required in grade 9 or 10 .
PRINCIPLES OF LIFETIME FITNESS. This course will help equip students with the necessary tools to help them to make choices, and take actions that lead toward a physically fit life. Various activities will be utilized to provide opportunities for students to enhance their level of physical fitness.
Prerequisite for all other PE classes. 0.5 credit
FOUNDATIONS OF INDIVIDUAL AND TEAM SPORTS. This course will ensure that students have a solid understanding of fundamental rules and skills necessary to play a variety of sports. The overall goal is to help students find activities that they will use to help maintain wellness.
Required in grade 9 or 10 .
0.5 credit

FALL TEAM SPORTS. The major team sports in this unit include basketball, touch or flag football, soccer, softball, street hockey, and volleyball. Each student will be required to dress-out and participate in the activity selected for that day. This will be an exciting class for persons who enjoy playing team sports and want to get in shape at the same time. This class is not geared for the varsity athlete who wants to perfect his/her skills so they can compete at the varsity level.
First semester course for grades 11 and 12.
0.5 credit

SPRING TEAM SPORTS. The major team sports in this unit include indoor/outdoor soccer, basketball, volleyball, street hockey, and styx ball (lacrosse). Each student will be required to dress-out and participate in the activity selected for that day. This will be an exciting class for persons who enjoy playing team sports and want to get in shape at the same time. This class is not geared for the varsity athlete who wants to perfect his/her skills in order to compete at the varsity level.
Second semester course for grades 11 and 12 . 0.5 credit
WEIGHT TRAINING AND CONDITIONING. The emphasis on this class will be on physical fitness (cardiovascular endurance) and weight training. Each student will participate in a circuit-type weight training program geared for his/her own personal needs and abilities. The purpose of this class will be to develop and maintain a high level of cardiovascular endurance and good muscle tone throughout the body. Each student will be evaluated on his/her own merit and they will not be compared to other students in the class. A great class for persons who like the challenge of setting personal goals and are willing to work hard to reach those goals.
First or second semester for grades 11 and 12 . 0.5 credit

WEIGHT TRAINING AND CONDITIONING II. For students who wish to continue their program beyond the first course.
First or second semester for grades 11 and $12 \quad 0.5$ credit
WEIGHT TRAINING AND CONDITIONING III. For students who wish to continue their program beyond the second course.
First or second semester for grades 11 and $12 \quad 0.5$ credit
793 LIFETIME SPORTS. This course exposes students to a variety of games and leisure activities that can be utilized to help to maintain fitness over one's lifetime. Examples of activities include: Ultimate Frisbee, Disc Golf, Racquetball Sports, Bocce, Group Games, etc.
First or second semester for grades 11-12.
0.5 credit

## ACADEMIC SUPPORT

The staff in the Academic Support program works with students in a holistic way that enables them to grow academically, spiritually, socially, and physically. LMS offers services to ensure that students who learn differently are given a chance to realize their full academic potential. Federal and state guidelines are useful to program design; however, LMS is an independent school and forms a program that best serves our students without the restrictions and requirements of strictly following government mandates.

The Academic Support staff partners with parents and teachers to provide students who might otherwise find it difficult to participate in the general education curriculum with the resources to achieve academic success in the classroom. The Academic Support program may include students with learning difficulties or disabilities.

LMS seeks to ensure students are included and successful in their least restrictive placement classes to the fullest extent that they are able. The Academic Support staff work with teachers to facilitate accommodations and differentiation of instruction. Accommodations and support are provided through an Individualized Academic Plan (IAP) for students who demonstrate a need.

800 GUIDED STUDY. This course is designed for Academic Support students who have an Individualized Academic Plan (IAP) and are in Academic Support five periods a week. The course provides support for students in a small group setting and focuses on organization, academic checks, study skills, small group instruction, test support, technology support, and parental and teacher support. A pass/fail grade will be issued for this semester-long course.

FOUNDATIONS OF ENGLISH. This course parallels components from the regular high school English courses while focusing on career-related writing, journaling, reading the newspaper, and literature study.
$\begin{array}{ll}\text { First and second semester for grades 9-12 } & 0.5 \text { credit }\end{array}$
GENERAL MATH. This course includes a variety of mathematical areas used in daily life. Students will work collaboratively and independently as they develop problem solving and critical thinking skills. Beginning algebraic concepts will also be introduced. Relevant daily living projects and assignments are included.
First and second semester for grades 9-12
0.5 credit

## MATHEMATICS \& COMPUTER SCIENCE

Mathematics holds a central place in academic traditions and is a factor in the advancement of civilization. Mathematics is used in science and technology and is a basic tool for logical reasoning and decision-making processes. Mathematics is a common language in the global community and as such transcends national boundaries and becomes a useful model for the Christian community. Through mathematics, we see the beauty of God's creation as expressed in nature's symmetry and designs. It affirms God's awesome power.


Students need a minimum grade of C before moving to the next level of math on the chart.
401 GENERAL MATH. This course includes a variety of mathematical areas used in daily life.
402 Students will work collaboratively and independently as they develop problem solving and critical thinking skills. Beginning algebraic concepts will also be introduced. Relevant daily living projects and assignments are included.
First and second semester for grades 9-12
. 5 credit
ALGEBRA I (Part 1). This course integrates algebra and geometry concepts at a slower pace. The course focuses on linear concepts and basic geometry. This course prepares students for Algebra I (Part 2). Students should have a scientific calculator.
Yearlong course for grades 9-12
1.0 credit

ALGEBRA I (Part 2). This course is a sequel to Algebra I (Part 1) and integrates algebra and geometry concepts. This course covers linear and quadratic equations, graphing, and functions in addition to basic geometry. Students who complete both parts of Algebra Parts $1 \& 2$ will have completed a full Algebra I course with basic geometry. Students should have a scientific calculator. They will be exposed to graphing calculators. This course prepares students for Geometry.
Prerequisite: Must have at least a C grade in Algebra 1 (Part 1).
Yearlong course for grades 9-12
1.0 credit
*405
*406
ALGEBRA I. This course focuses on extensive use of linear and simple quadratic equations,
graphing, functions and relationships, and integrates geometry and algebra. Scientific calculators are required.
Students are exposed to graphing calculators.
Yearlong course for grades 9-12.
1.0 credit
*407
ALGEBRA II. Builds upon concepts learned in Algebra I. New topics include trigonometry,
*408

HONORS GEOMETRY. This course investigates a range of subjects including Euclidean and Non-Euclidean
Geometry, spatial relations, logic, proof, congruence, transformations, polygons, circles, and the dimensions of various figures. This course reviews Algebra 1 content on a regular basis. Students planning on taking Pre-Calculus should take Honors Geometry.
Prerequisite: At least a C in Algebra 1.
Yearlong course for grades 9-12
1.0 credit

GEOMETRY. This course investigates a range of subjects including Euclidean and Non-Euclidean Geometry, spatial relations, logic, proof, congruence, transformations, polygons, circles, and the dimensions of various figures. This course reviews Algebra 1 content on a regular basis. Students not planning on taking PreCalculus should take Geometry.
Prerequisite: At least a C in Algebra 1 or Algebra 1, Part 2.
Yearlong course
1.0 credit

PRE-CALCULUS. An elective which follows Algebra I and II and Geometry. It prepares
students for college work in mathematics. The structure of the number system is stressed. Topics include sequences and series, mathematical induction, vectors, and trigonometry. A graphics calculator is required. Prerequisites: At least a grade C in Algebra II and Geometry. Yearlong course 1.0 credit

ADVANCED PLACEMENT CALCULUS AB. Covers differentiation and integration and some of their applications. Limits and analytic geometry also receive quite a bit of attention. Students taking this course may take the Advanced Placement exam and should be able to test out of at least one semester of college calculus. A graphics calculator is required. This is a weighted class.
Prerequisite: At least a grade C in Pre-Calculus.
Yearlong course.
1.0 credit

ADVANCED PLACEMENT CALCULUS BC. Students will explore the concepts, methods, and applications of differential and integral calculus, including topics such as parametric, polar, and vector functions, and series. Students will perform experiments and investigations and solve problems by applying their knowledge and skills. Students taking this course may take the Advanced Placement exam and should be able to test out of at least one semester of college calculus. A graphics calculator is required. This is a weighted class. Prerequisite: AP Calculus AB.
Semester Course
0.5 credit

STATISTICS. The purpose of this course is to introduce students to the major concepts and tools for collecting, analyzing and drawing conclusions from data by exploring data, planning a study, producing models and confirming models by statistical inference. This academic class prepares students for either college or the world of work. A T1-83+ or T1-84 graphing calculator is required. (Approx. cost $\$ 90$.)
Prerequisite: At least a C in Algebra II.
First semester for grades 11-12. 0.5 credit
ADVANCED PLACEMENT STATISTICS. The purpose of this course is to introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students are exposed to four broad conceptual themes: exploring data, planning a study, and producing models using probability and simulation, and statistical inference. Students completing this class will be prepared for the Advanced Placement Statistics Exam. A TI-83 or TI-84 graphing calculator is required. This is a weighted class.
Prerequisite: At least a C in Pre-Calculus.
Yearlong course
1.0 credit

INTRODUCTION TO DATA SCIENCE. is designed to introduce students to the exciting opportunities available at the intersection of data analysis, computing, and mathematics through hands-on activities. The curriculum focuses on practical applications of data analysis to give students concrete and applicable skills. Instead of using small, tailored, curated data sets as in a traditional statistics curriculum, this curriculum engages students with a wider world of data that fall into the "Big Data" paradigm and are relevant to students' lives. Students will learn to find and communicate meaning in data, and to think critically about arguments based on data.
Prerequisite: Algebra II
Semester Course for grades 11-12
0.5 credit

AP COMPUTER SCIENCE PRINCIPLES. With a unique focus on creative problem solving and real-world applications, the AP Computer Science Principles course gives students the opportunity to explore several important topics of computing including Web Development, Programming, Digital Information, The Internet and Data. Students will use their own ideas and creativity to create artifacts of personal value including a final collaborative project. This course will also develop an interest in computer science that will foster further endeavors in the field. This course counts for math or science credit. Prerequisite: Algebra 1 Yearlong Course for grades 10-12
1.0 credit

Offered in alternate years: Offered 2020-2021 \& 2022-2023
COMPUTER SCIENCE PRINCIPLES. With a unique focus on creative problem solving and realworld applications, the Computer Science Principles course gives students the opportunity to explore Web development and Programming. This course will run concurrently with the AP Computer Science Principles course. While covering some of the same material the pace and scope will vary. Students will use their own ideas and creativity to create artifacts of personal value including a final collaborative project. This course will also develop an interest in computer science that will foster further endeavors in the field. This course counts for math or science credit.
Prerequisite: Algebra 1
Semester Course for grades 10-12 0.5 credit
Offered in alternate years: Offered 2020-2021 \& 2022-2023
440 AP COMPUTER SCIENCE A. This course is an extension of AP Computer Science Principles. AP Computer Science A is an introductory college-level computer science course. Students cultivate their understanding of coding through analyzing, writing, and testing code as they explore concepts like modularity, variables, and control structures. This course counts for math or science credit.
Prerequisite: Computer Science Principles
Yearlong Course for grades 10-12
1.0 credit

Offered in alternate years: Offered 2021-2022 \& 2023-2024

## Mathematics note:

Mathematics credit may also be earned through either Business Math ( 0.5 credit), Personal Finance ( 0.5 credit), or Financial Accounting ( 0.5 credit).

## M U S I C

Music is an art form expressed in composing, performing, participating and listening, and is an important element in worship. What students experience and explore in music at Lancaster Mennonite School can significantly impact music in the church, cultivating aesthetic enjoyment, social and cultural understandings, and a faith relationship with God. Music experiences, especially in ensembles, promote social as well as personal development. Skills developed in music can be used for a lifetime.

267 VOICE CLASS. Voice Class is open to all students. It is highly recommended for Concert Choir and Campus Chorale members. Emphasis is placed on proper singing technique. Students learn to read music. The song literature explores many styles, including spirituals, folk songs, art songs, Broadway songs, and a Christmas selection. Emphasis is placed on gaining confidence and self-acceptance of each individual voice. A public recital concludes the course in January.
First semester for grades 9-12. 0.5 credit
271 MUSIC THEORY I. Music Theory 1 opens understanding of music to students who currently play an instrument or sing. Students examine how to get the most from music and all the ways it can be synthesized (listening, performing, composing) and how changes progressed in music history.
First semester for grades 9-12 0.5 credit
PIANO LAB. Piano lab is an introductory piano course but students at all levels will be accepted. Advanced students may work independently. A strong desire to learn to play songs on a piano is required. Emphasis will be placed on learning to read music, but students will also be encouraged to play by ear.
Second semester for grades 9-12. 0.5 credit
CONCERT CHOIR. Concert Choir is a non-auditioned choir. In addition to singing good choral literature and preparing for performances, emphasis is placed on proper habits for singers, sight-reading music skills, and getting a good choral blend. Students enrolled in the fall concert choir will be expected to participate in the Christmas program. Students enrolled in the spring Concert Choir will be expected to participate in the spring concert in May. A yearlong commitment is encouraged.
For grades 9-12.
0.5 credit/semester

272 GUITAR I. For the beginning guitar student. Each student is asked to purchase a text and have his/her own acoustic guitar. It is advisable to have some background in music before taking this course; however, previous experience is not required.
First or second semester for grades 10-12.
0.5 credit

291 MUSIC THEORY II. Music Theory II is for students who have a solid background in music. The course deals with all aspects of music, especially chord structure, voice leading, cadences, texture, and analysis. Students will work at keyboard proficiency as part of this course. Students are strongly encouraged to be engaged in vocal or instrumental performance. Students will be encouraged to compose a significant work and will have access to Sibelius Notation software for composing. Taking the Advanced Placement Music exam is an option after completing this course.
Prerequisite: Music Theory I or equivalent.
Second semester for grades 11-12.
0.5 credit

CAMPUS CHORALE. Admission is by audition. Members are chosen on the basis of musical and vocal ability, personal discipline, and spiritual maturity. Campus Chorale is the main performing choir of LMH and gives programs in local churches, participates in the MSEC Choir Festival, and an adjudicated choir festival. Members are required to participate in all scheduled performances unless specifically excused by the director. Choir members are expected to pay for their own choir outfits, as well as any other fees. Regular attendance at rehearsals is essential.
Yearlong course for grades 11-12.
1.0 credit

## String Orchestra, Concert Band, Jazz Band

The instrumental ensembles of the school are made up of the String Orchestra, the Concert Band and the Jazz Band. Students are expected to stay with the ensemble they have chosen for the entire school year. Students should have their own instruments and should be taking private lessons on their instrument outside the school time. The school owns a few instruments that may be rented at a reasonable rate. Attendance at all rehearsals and scheduled concerts is expected. Students will be asked to cover costs related to the MSEC Band and Orchestra Festival.
Full year course for grades 9-12
265 STRING ORCHESTRA. String orchestra is open to students from grades $9-12$ by audition. The 266 string orchestra rehearses five periods a week. Sectionals may take place on alternate days. Students normally are expected to provide their own instruments and be able to read music. A yearlong commitment is preferred. 1.0 credit

CONCERT BAND. Concert band is open to students from grades $9-12$ by audition. Concert band rehearses twice a week and SELECT STUDENTS meet with the Symphony Orchestra once a week. Sections which have too many instruments for the orchestra may be asked to work as separate ensembles. Students normally are expected to provide their own instruments and be able to read music. Yearlong course 0.6 credit

JAZZ ENSEMBLE. Jazz ensemble meets twice a week (opposite band rehearsals). Members of the 278 Jazz Ensemble who play wind instruments normally must also be members of the concert band. The pep band is comprised of Jazz Ensemble members. Regular attendance at rehearsals and any agreed upon concerts is expected.
Yearlong course for grades 9-12 0.4 credit

## Private Lessons

Private vocal and instrumental instruction may be available for students wanting to enhance their performance skills. Arrangements for lessons are made through the music department. Lesson fees are paid to the instructor.

## SCIENCE

Science is a way of discovery that provides for intellectual stimulation and development. It is fundamental in helping to equip students to live responsibly in a technological world.

The marvels of the physical world reflect God's glory as both creator and sustainer. The tools of science help to explore the workings of nature and to unlock some of its wonders. We affirm that truth has its source in God. Therefore the discoveries of science, rightly understood, proclaim God as supreme in the physical as well as the spiritual realm.

The Science Plan Survey is as follows:

- Requirement: 3 credits; 2 of the credits must be selected from courses in bold print.
- Lighter science requirements are at the top; college bound lower
- Classes marked with * are basic requirements for most colleges. Not having these classes means you have knowledge below what is considered normal entrance knowledge.
For Survey shade $O$

Environmental Science ( 1.0 credit) - most students enter here
 $O *$ Biology (1.0) - some students start here


One Science credit may also be earned by taking two 0.5 credit courses from the Agriculture Department, Technology Department, and Family and Consumer Sciences Department. Options include:

- Animal Biotechnology
- Electronics
- Forestry \& Environment
- Horticulture
- Nutritional Science
- Power Technology-Small Engines
- Wildlife and Fisheries Science

ENVIRONMENTAL SCIENCE. With the campus as our extended laboratory we will explore how God's earth operates. We will examine the gifts of atmosphere, aquatic systems, and the land and how they have been used and misused. The goal is to prepare us to be good stewards of God's creation. First or second semester course; meets two periods per day.

BIOLOGY. God's gift of life to plants, animals and people is marvelous. Biology helps us awaken these wonders. A variety of laboratory and class activities is designed to lay a foundation to understand the living world, both for persons who will take advanced studies as well as those who do not. Prerequisite: Completion of Algebra I with an A or B, or completion of Environmental Science. First or second semester course; meets two periods per day.
1.0 credit

BIOLOGY. God's gift of life to plants, animals and people is marvelous. Biology helps us awaken these wonders. A variety of laboratory and class activities is designed to lay a foundation to understand the living world, both for persons who will take advanced studies as well as those who do not. (9th grade students selecting Biology should have an " A " in 8th grade math/science.)
Yearlong course for grades 9-12
1.0 credit

CHEMISTRY. This course examines the structure and properties of matter, and investigates the interaction of elements and compounds that permeate the world around us. It is designed for the college bound student, although it is encouraged for everyone. Student lab work and demonstrations are integrated with the reading and problem solving involved in this course of study.
Prerequisite: Geometry.
First or second semester course for grades 10-12; meets two periods per day. 1.0 credit
*456 HONORS CHEMISTRY. This course examines the structure and properties of matter and investigates interactions of elements and compounds that permeate the world around us. It is designed as an option to be taken instead of chemistry for those college-bound students who may be interested in a science or math related field. Student lab work and demonstrations are integrated with the reading and problem solving involved in this course of study. Prerequisite: Students taking this course should have received an A or B in previous science and math classes and be enrolled concurrently in or have completed Algebra II. First or second semester course for grades 10-12; meets two periods per day.
1.0 credit

PHYSICS. This course is an inquiry based course which examines the physical laws which describe our universe. Lab work is essential to the course and provides opportunity to explore and apply these physical laws. Concepts covered are drawn from the areas of motion, energy, static and current electricity, and wave theory.
Prerequisite: Chemistry and Algebra II.
First or second semester course for grades 11 or 12 ; meets two periods per day. 1.0 credit
HONORS PHYSICS. This course may be taken instead of Physics 459. Students will examine the physical laws which describe our universe. Designing labs, performing labs and problem solving is essential to the course. The labs and problems are more in depth and complex than in Physics 459. Requirements for the spring semester include attending and successfully completing the Hersheypark Physics Day Lab (approximate cost is \$40). Students enrolling must have completed Algebra II and Chemistry with an A or B.
First or Second semester course for grades 11 or 12 ; meets two periods per day.
1.0 credit

The science department recommends that a student complete biology, chemistry and physics before enrolling in the following advanced science courses.
*466 ANATOMY AND PHYSIOLOGY. This course emphasizes human anatomy and physiology. It is of special interest for, but not limited to, students interested in health and medical-related fields.
Prerequisites: A or B in biology and chemistry.

## Offered in 2020-2021 \& 2022-2023

Second semester for grades 11-12. 0.5 credit
ADVANCED PLACEMENT BIOLOGY. This is a rigorous and demanding second-year biology
class designed for the highly motivated college-bound student with a special interest in the sciences. The course will focus on four main themes: cellular biology, molecular genetics, biological systems, and population genetics. A significant amount of studying must be completed at home to allow time for discussion, labs, and inquiry during class time. The course will prepare students to take the AP Biology exam in May which may enable them to obtain college credits. This is a weighted class.
Prerequisite: A or B in biology and chemistry. Completed or enrolled in Pre-Calculus.
Offered in alternate years: Offered 2020-2021 \& 2021-2022
Yearlong course for grades 11-12, meets one period per day.
1.0 credit
*457A ADVANCED PLACEMENT CHEMISTRY. This course is a second year chemistry class designed
457B for the highly motivated college bound student with a special interest in the sciences. It will involve a deeper study of matter with a closer look at the steps involved in how it changes. It will prepare students for taking the AP Chemistry exam in May which will enable them to obtain up to eight
college credits. This is a weighted class.
Prerequisite: A or B in first year chemistry, completed or enrolled in Pre-Calculus.
Offered in alternate years: Offered 2020-2021
Yearlong course for grades 11-12
1.0 credit
*464 ADVANCED ENVIRONMENTAL SCIENCE. This course will focus on the scientific study of our environment and the impact we have on it. It includes examining land and energy use, water and air quality, and our impact on the various ecosystems around the world. Our own campus will provide us with hands on lab work. Students planning on taking the AP exam are encouraged to also take Forestry and the Environment or Wildlife and Fisheries Science.
Prerequisites: A or B in biology and chemistry.
Second semester class for grades 11-12
Offered in alternate years: Offered 2021-2022
0.5 credit
*458 ADVANCED PLACEMENT PHYSICS. This course is normally a second year physics class designed for the highly motivated college bound student who has a special interest in engineering or physics. This is a calculus based physics course that will prepare students to take the Advanced Placement Physics "C" test in Mechanics. Topics we will cover are kinematics, Newton's laws of motion, work, energy, power, linear momentum, circular motion, rotation, oscillations and gravitation. Labs will be more extensive than honors physics labs and will take place about once a week. Throughout the course a lot of emphasis will be placed on problem solving. Requirements for the spring semester include attending and successfully completing the Hersheypark Physics Day Lab (approximate cost is $\$ 40$ ). This is a weighted class.
Prerequisites: A or B in first year Physics, completed or enrolled in AP Calculus AB. Second semester class for grades 11-12; meets two periods per day.
1.0 credit

## SOCIAL STUDIES

Social Studies courses are taught within the context of Christian education. We recognize God's sovereignty in history and the affairs of humankind. A global emphasis encourages appreciation for the heritage and cultural diversity of our world. The study of current events and issues of human need reflect concern for peace and justice throughout the world. Students are challenged to become responsible citizens of their country with an ultimate loyalty to the Kingdom of God.

High School Social Studies Requirements
0.5 credit - Global Studies or AP Modern World History
0.5 credit - Recent World History or AP Modern World History
1.0 credit - U.S. History or AP U.S. History

Seniors are required to take:
0.5 credit - Individual \& Family Studies

And two of the following courses (1 credit total)
0.5 credit of Economics
0.5 credit of Comparative Government
0.5 credit of AP Comparative Government
0.5 credit of AP U.S. Government

## Grade 9

303 GLOBAL STUDIES. The theme of this course is the value of cultural diversity and a respect for all cultures. This course introduces students to the historical thinking skills (analysis of primary sources and evidence; making historical connections; chronological reasoning; and creating and supporting an argument) that are needed for critical thinking across disciplines in the 21st century. The course focuses on the MSC Faith Practice Statements of respect for diversity, compassionate living, peacebuilding and citizenship in God's kingdom. Students intending to take AP World History in 10th grade are not required to take this class however all 9th graders are strongly encouraged to take the course as it builds skills for success in future AP courses.
First or second semester for grade 9. 0.5 credit

## Grade 10

RECENT WORLD HISTORY. This course will focus on world events from 1500s to the present, with special emphasis on the growth of the political, economic, and social institutions of Europe, East Asia, South Asia, Africa, Southwest and Central Asia, and the Americas along with the relationship of past events to current situations.
First or second semester for grade 10 .
0.5 credit

## Grade 11

U.S. HISTORY. This survey course begins with the 1870s and continues to the present day. One goal is to acquaint students with major events of American history within a chronological framework. Several historical themes are developed throughout the course to gain understanding of the cumulative impact of past events on present life and issues. Some themes include the impact of changing technology, American culture, ethnic diversity, religious movements, economic and political development.
Yearlong course for grade 11.
1.0 credit

## Grade 12

ECONOMICS. This course focuses on fundamental economic concepts affecting individuals and the whole economy. Comparing economic systems helps students to understand the foundations of the nation's economy. Economic issues, the role of government, international trade and global economics are all aspects of the course. The course explores the role and importance that international business plays in a diverse, global economy. The course also discusses the environmental and cultural aspects of international business and the major functional areas of trade, economic integration, and the international monetary system.
First or second semester for grade $12 \quad 0.5$ credit
INDIVIDUAL AND FAMILY STUDIES (9 weeks) / PERSONAL FINANCE (9 weeks). This course examines, from a faith perspective, the family as an important social institution and explores personal finance. Some areas of study include; managing conflict; marriage and family; divorce and family; and family violence. Personal finance topics include financial responsibility and decision making, planning and money management, stewardship, budgeting and charitable giving, credit and debt, and savings and investing. Required course for grade 12.
First or second semester
0.5 credits

COMPARATIVE GOVERNMENT. This course will focus on central concepts of comparative politicspower, political structure, institutions, nationalism and identity, democratization and policy-making. The political systems studied will include the United States along with the political states of the United Kingdom, Russia, China, Iran, Nigeria, and Mexico. This course will present a broader world view that will enable students to better understand the actions of the U.S. government within the context of a global community. First or second semester for grade 12

## Social Studies Electives

ADVANCED PLACEMENT MODERN WORLD HISTORY. This college-level World history course prepares students to take the advanced placement test for college credit. This test will focus on the time period between 1200 C.E. to the present. The course highlights the nature of changes in international frameworks and their causes and consequences, as well as comparisons among major societies. This results in a more holistic, systematic, and global view of history. The course offers balanced global coverage with Africa, the Americas, Asia, and Europe each represented. Students are encouraged to take the 9 th grade social studies course, Global Studies, before taking AP World History. However, since this year-long class incorporates content from both Global Studies and the 10th grade course, Recent World History, sophomores may take AP World in place of Global Studies and Recent World History. This is a weighted class.
Yearlong course for grades 10-12.
1.0 credit

ADVANCED PLACEMENT COMPARATIVE GOVERNMENT AND POLITICS. This college level year-long Government and Politics course prepares students to take the Advanced Placement test for college credit. The course provides a cross-national perspective on the government, politics and economics of contemporary nations such as the United States, the European Union, Britain, Mexico, China, Russia, Nigeria, Iran, and others as needed. Special emphasis will also be given to the topic of Christian citizenship. This is a weighted class. This course meets the economics requirement for graduation. Second semester course for grade 12 .

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0.5 \text { credit }
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ADVANCED PLACEMENT PSYCHOLOGY. This college level introductory psychology course is designed to introduce the systematic and scientific study of the behavior and mental processes of human beings and other animals. Included is a consideration of the psychological facts, principles, and phenomena associated with each of the major subfields within psychology. Students also learn about the ethics and methods psychologists use in their science and practice. This is a weighted class.
Second semester course for grades 11-12.
Offered in alternate years: Offered 2020-2021 \& 2022-2023
*327

HONORS SOCIOLOGY. This college level introductory sociology course examines the interaction of people within social structure of modern society. The class covers patterns of social interaction and social influences on individual conduct. Emphasis will be given to the various institutions within modern society along with social stratification both within the United States and the global community. This college-level introductory sociology course will be geared toward preparing students to take and pass the College Board's College-Level Examination Program (CLEP) test to acquire college placement.
Second semester course for grades 11-12
Offered in 2020-2021, 2021-2022 \& 2023-2024 0.5 credit
Note: See Agriculture Science \& Technology sections for additional Social Studies credit options.

## TECHNOLOGY EDUCATION

Experiences in Technology Education help students understand how to use knowledge, skills, materials and tools to solve problems and increase the potential of what they can do. Students learn within the context of Christian principles that emphasize wise use of resources, responsible applications of technology and innovative ways of using technology to benefit humanity.

677 TECHNOLOGY \& DESIGN. This course is an overview of technology and STEM careers. The course includes hands-on activities, lab demonstrations, small group work and class discussions. Students will be introduced to topics in welding, construction, metalworking, power technology and woodworking. The technological method of designing, building, testing, evaluating and applying is integrated into the course. Students will pay for materials used.
First or second semester for grades 9-12.
0.5 credit

687 METALWORKING. Steel, aluminum, copper and brass in various forms are used as exploratory metals. Skill development and an understanding of materials and techniques used by industry and technology are stressed. Forging, casting, machining and other methods are used in the creation of functional products. Students will pay for materials used.
Prerequisite: Technology and Design
First semester for grades 10-12.
0.5 credit

692 DRAFTING TECHNOLOGY. This course introduces the student to drafting by visualizing and laying out multi-view drawings, descriptive geometry, developments, and working drawings. The first number of drawings is done using hand drafting tools, giving students the background to use SolidWorks, a 3D computer aided drafting program widely used in industry. This course is a good foundation for majors in engineering and architecture.
First or second semester for grades 10-12
0.5 credit

694 ARCHITECTURAL TECHNOLOGY. Architectural styles, energy efficiency, alternative housing and cost estimates are presented. Chief Architect, a computer aided drafting program is used for a number of residential drawing projects. This course is a good foundation for majors in architecture, design, or any of the building trades.
First or second semester for grades 10-12
0.5 credit

ADVANCED WOODWORKING. This course features wood as the primary material used for making advanced end-used products. Students manufacture custom products, utilizing advanced techniques including using a CNC (computer numerically controlled) router. Product design and conservation of materials are also studied. Skills and understanding are developed through class discussions, industry visits and production. Students will pay for materials.
Prerequisite: Technology and Design
First semester for grades 11-12. .05 credit

ROBOTICS. Students will learn and apply the engineering process in building and programming basic robotic behaviors using motors and sensors. C++, widely used in software applications, will be used to program the VEX V5 robots to complete autonomous tasks as well as controller directed tasks.
First semester for grades 11-12.
0.5 credit

## WORLD LANGUAGES

Learning to communicate with people of other languages and understanding their way of life are essential skills in an increasingly interdependent world. As students listen to, speak, read and write a second language, they begin to develop a greater awareness and appreciation for the broad diversity of cultures in our world.

Those who travel or serve abroad find a second language an important key to developing meaningful relationships. Proficiency in a second language will also better prepare students for careers and witness which involve cross-cultural communication. Finally, learning another world language enables students to better understand their own language and can give them linguistic tools useful in other fields of study.

FRENCH French is known worldwide as a diplomatic language, used often in negotiations between countries. Students who study French will be able to use the language in many parts of the world, among them Quebec, Europe, Africa, and East Asia. The French language could be especially useful for students interested in future overseas service experience.

521 FRENCH I. Students are introduced to French sounds, useful vocabulary and phrases through
dialogues and small-group or partner-oriented activities. The major focus will be on learning to use the language to communicate about events and facts related to the students themselves. In addition, attention will be given to the countries and cultures where French is spoken, in order to better understand the language. If enrollment is insufficient, the course will be an online experience.
Yearlong course for grades 8-12.
1.0 credit

FRENCH II. In French II students will build on previously learned material to develop more complex language, working on listening, speaking, reading, and writing the language. French II will be an online experience.
Prerequisite: at least a C average in French I.
Yearlong course for grades 9-12
1.0 credit

FRENCH III. In French III students will build on previously learned material to develop more complex language, working on listening, speaking, reading, and writing the language. French III will be an online experience.
Prerequisite: at least a C average in French II.
Yearlong grades 10-12.
1.0 credit

FRENCH IV. In French IV students will build on previously learned material to develop more complex language, working on listening, speaking, reading, and writing the language. French IV will be an online experience.
Prerequisite: at least a C average in French III.
Yearlong grades 11-12.
1.0 credit

GERMAN Being able to speak German helps students function well in much of Western Europe, where many Americans have their family roots. Students will have greater opportunities to make an impact in teen and young adult service programs in Europe with a knowledge of German. Studying German also gives students a better understanding of English, which is considered a Germanic language.

501 GERMAN I. Students are introduced to German sounds and useful vocabulary through dialogues
and activities based on everyday speech. Though grammar is a part of language study, the main focus is on learning to communicate in German. Students will spend time learning about the Germanspeaking people, their way of life, and the countries from which they come. The language is spoken, written and heard.
Yearlong course for grades 8-12.
1.0 credit

GERMAN II. Activities at the second level are directed toward making it possible for students to communicate more accurately in German. Classroom activities are conducted in German when possible. Attention is also given to listening comprehension, reading, writing, and to learning to deal with potential situations in a country where German is spoken.
Prerequisite: at least a C average in German I.
Yearlong course for grades 9-12.
1.0 credit

GERMAN III. Students continue to improve their accuracy in speaking, listening, reading and writing by learning the finer points of grammar and verb tenses in German. In addition to the textbook, other materials such as magazine and newspaper articles, literary selections, videos and articles on history and culture will be used to increase vocabulary and the students' knowledge of German and world issues.
Prerequisite: at least a C average in German II.
Yearlong course for grades 10-12.
1.0 credit

GERMAN IV. Students learn finer points of grammar and verb tenses in German. Students continue to improve accuracy in speaking, listening, reading and writing and to communicate ideas on a variety of topics with as little hesitation as possible. Current periodical articles, literacy selections and articles on history and culture will be used in addition to the textbook.
Prerequisite: at least a C average in German III.
Yearlong course for grades 11-12.
1.0 credit

SPANISH When students study Spanish they are learning a language that is very much alive in the United States through a rapidly increasing Latino population. Furthermore, Spanish is the official language of 20 countries of the world. Both English and Spanish share common Latin roots. Knowledge of Spanish will prepare students for the increasingly multicultural society in which we live.

511 SPANISH I. This course is open to students with little or no experience in Spanish. Spanish I is
proficiency-oriented, based on an integrative approach to the four basic skills: listening, speaking, reading, and writing. Emphasis is given to developing communication skills through interaction among students and between students and teacher. Material is also presented to develop an appreciation of Hispanic cultures. Yearlong course for grades 8-12.
1.0 credit

SPANISH II. This course builds on the material learned previously by reviewing key grammatical points and adding to basic vocabulary themes presented in first-year Spanish. Communicative activities continue to be an important aspect of learning to use the language for real-life situations within appropriate cultural contexts.
Prerequisite: At least a C average in Spanish I.
Yearlong course for grades 9-12.
1.0 credit

SPANISH III. In this course students are encouraged to begin to express their own thoughts without solely relying on memorized material. Key grammatical structures are taught to enhance clear and effective communication. Through short reading selections students will continue to develop greater cultural understanding. Spanish III is an important step to help students enlarge upon the basic material learned in levels 1 and 2. Prerequisite: At least a C average in Spanish II. Yearlong course for grades 10-12.
1.0 credit

SPANISH IV. This course is designed to help students add to a strong base of vocabulary learned in previous courses. In addition, students will add to their understanding of basic grammatical structure by learning more complex concepts. Students will continue to develop cultural awareness, especially through the reading of Spanish literature. This course receives credit at Mennonite colleges.
Prerequisite: At least a C average in Spanish III.
Yearlong course for grades 10-12
ADVANCED PLACEMENT SPANISH. In this course there will be a review of advanced grammar and a continued emphasis on building vocabulary through the use of authentic materials including modern Spanish short stories, newspapers, magazines, films and the Internet. Through reading literature, working with Spanish grammar in speaking and writing, examining media, and experiencing food, dance, and other cultural touchstones, students will continue their Spanish language and cultural learning. There will be opportunities to connect with local Spanish-language agencies and communities for service and learning. Prerequisite: Grade C or better in Spanish IV, and the recommendation of the Spanish 4 teacher or participation in Spanish Immersion Program
Yearlong course for grades 9-12
1.0 credit

AP Spanish runs each year, with alternating content. The course may be taken twice, and the AP Exam may be taken either year.
South American Culture: Offered 2020-2021
Central American \& Caribbean Culture: Offered 2021-2022

