

Lutheran High School Westland

**2011-12
Academic
Handbook**



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Policies

Accreditation: LHW is accredited by the North Central Association of Colleges, MI Non-Public Schools Association and National Lutheran School Accreditation.

AP Courses: LHW offers Advanced Placement (AP) classes:

- AP US History for juniors – Weighted grade
- AP Calculus AB for seniors – Weighted grade
- Students in Psychology may choose to take the AP Psych exam

Weighted grades: AP courses are scored on a 5.0 GPA scale because they are more challenging and require more work.

Advantages of AP courses: AP courses are rigorous, challenging and college level in quality. A college may look favorably on a student who took the challenge of an AP class. College credit may be earned by scoring a 4 or 5 on the exam. Individual colleges determine which AP Exam scores will earn credit.

AP Exams: The national AP exams, offered in May, are scored by the College Board on a 5 point scale: 5 (extremely well qualified), 4 (well qualified), 3 (qualified), 2 (possibly qualified), and 1 (no recommendation). The tests are required for all AP classes at LHW. It is the responsibility of the student to pay the test fee (approx. \$95) for each exam.

College Entrance Tests (EXPLORE, PLAN, PSAT, ACT, SAT1, SAT2):

- Universities evaluate a student's ability based on a national college entrance exam – the ACT or SAT. **Colleges in the Midwest prefer the ACT.** Highly selective schools tend to prefer the SAT but accept either test.
- Practice ACT tests are given on testing day: Grade 9 **Explore**, Grade 10 **PLAN**
- LHW will not offer the **MI Merit Exam (MME)** to juniors. Juniors are encouraged to take the ACT on a Saturday National Test Date in April or June.
- **ACT Retakes:** Students may retake the ACT on one of the Saturday national test dates in Sept., Oct., Dec., Feb., April and June to improve their scores.
 - > Students register online (www.actstudent.org) at least 30 days before the test date. Each student is responsible for meeting the registration deadlines and submitting the necessary forms and fees (\$30-50)
 - > ACT plus Writing: student retaking must choose the ACT or ACT plus writing. The ACT website (www.actstudent.org) lists the schools requiring writing.
 - > LHW is a test center for most Saturday test dates and for the MME.
- **SAT 1 and 2:** Some highly competitive colleges prefer the SAT I and the SAT II (subject tests). Register at (www.collegeboard.com).
- The practice SAT (**PSAT**) administered on a Wednesday in Oct., is optional for top ranking Juniors and Sophomores who wish to qualify as National Merit Scholars.

College Credits while in high School:

LHW students have opportunities to earn college credits while in high school.

1. **Release time:** A junior or senior may enroll as a high school guest student at an area university – Schoolcraft, Henry Ford, Madonna, Concordia, and Eastern. The student pays for tuition and books. The student may miss a maximum of two periods per day. Students should enroll as a guest student earning only college credit – not dual enrollment student. ½ credit of LHW electives will be reduced for each college course completed to keep the student on graduation pace.
2. **College summer school or online:** A junior or senior may take a college level course during the summer.
3. **AP Courses:** A high score on an AP exam may earn college credit.
4. **CLEP tests:** A high school student may take a CLEP test to demonstrate mastery of a subject. CLEP tests are offered at several area universities. The student should check with their target university regarding acceptance of credit BEFORE taking the test. The fee is \$55 per test. See www.collegeboard.com/student/testing/clep/about.html for details.

College Entrance Requirements:

- Colleges admit students based on their GPA (grades 9, 10, 11), ACT score, difficulty of courses, and leadership and involvement in activities.
 - Selective schools : 3.5 GPA and 25 ACT.
 - Universities : 3.0 GPA and 21 ACT Composite.
 - Community colleges: 2.0 GPA and 17 ACT Composite
- College bound students should take:
 - Foreign Lang.:** 2-3 years of the same language
 - Math:** 3-4 total credits (Algebra I and above)
 - Science:** 3-4 total credits
- The student should be involved other activities (athletics, drama, music, clubs, leadership roles, community service).

Failures

Any semester 'F' must be made up in summer school (through a local public school district) to keep the student on graduation pace. A Religion failure must be made up the next LHW school year but compensatory credit must be earned in summer school. The student must have approval from the guidance director before enrolling in summer school. The new grade and the original failing grade are both printed on the transcript and counted in the GPA.

Grading Scale/GPA

Only semester grades are permanently recorded on a student transcript. Semester and cumulative grade point averages include all courses taken.

Letter grade	Percent	Standard	AP course (weighted)	
A+	97-100			Credit earned
A	93-96	4.0	5.0	
A-	90-92			
B+	87-89			
B	83-86	3.0	4.0	
B-	80-82			
C+	77-79			
C	73-76	2.0	3.0	
C-	70-72			
D+	67-69			
D	63-66	1.0	1.0	
D-	60-62			
S	Satisfactory			
	Below 60% but excellent effort	Counts as 1.0 in GPA		
P	Pass	No grade but credit earned.	Not used in GPA.	
		Used for Independent Study classes.		
F	Fail	50-59	0.0	No Credit
AU	Audit	No grade No credit		No credit
		May be used with international students.		

Graduation: The principal must approve all graduates.

- Student service hours must be completed, turned in, and approved
- All obligations (academic and financial) must be fulfilled prior to commencement

A senior who is not approved or does not meet the graduation requirements will not be allowed to participate in the commencement service.

- A senior who receives more than one semester "F" in elective courses must make up all but one of those courses to participate in commencement.
- All coursework for online courses or coursework for make-up credits must be completed by May 1.
- The principal may allow a senior to take a summer school course and earn a diploma in early August.

Graduation Requirements:

Each semester passed (D- or above) earns 1/2 credit.

There are 8 class periods are held each day.

Students must take a minimum of 7 credits each year (Maximum 1 study hall).

4 Credits Religion <i>* Transfer students need 1/2 credit of Religion for each semester in attendance</i>	Rel 9, Rel 10, Rel 11, Rel 12
4 Credits English	Eng 9, Eng 10, Eng 11, Eng 12
3 Credits Social Science	World Geography or World History U.S. History or AP US History American Government
2 Credits Mathematics	<i>Algebra and above for college prep</i>
2 Credits Science	
2 Credits Physical Ed. / Health	<i>Grade 9 PE/Health required</i>
2 Credits Fine/Practical Arts or Foreign Language	Computers, Art, Music, Indust Arts, Spanish
9.0 Credits Electives	
TOTAL 28 Credits	

- ⇒ *1/2 credit of PE is waived for each athletic season completed during 10, 11, 12*
- ⇒ *All students must attend four years in some high school*
- ⇒ *Each senior must be enrolled in a full program both semesters*

Honor Graduates The Class Valedictorian(s) will be the student(s) with the highest 7th semester cumulative GPA (rounded to 2 decimal places) who also meets the requirements listed below. The student(s) with the 2nd highest GPA meeting the requirements listed below will be Salutatorian.

- Honor classes with weighted grades (designated by the administration) will be used in GPA calculations. (Cumulative GPA could be above 4.0). No transfer weighted grades will be accepted
- **Requirements:**
 - ⇒ have 4 credits in math (Algebra 1 and above)
 - ⇒ have 3 credits in science
 - ⇒ have 2 credits in Spanish
 - ⇒ be in good standing and meet all graduation requirements
 - ⇒ have completed at least 2 semesters at LHW

Honor Roll Students with a semester GPA of 3.500 or higher are named to the academic honor roll (Not the cumulative GPA). The honor roll is named twice a year at the end of each semester.

NCAA Clearinghouse

Students planning to compete in NCAA Div. 1 or 2 college athletics, must complete specific core curriculum courses and have a qualifying ACT score to be eligible for college athletics. Students register online @ www.ncaaclearinghouse.net during their junior or senior year, and pay the \$30 fee to begin the process. Students should request the Guidance Office to send transcripts to the Clearinghouse.

Parent/Teacher Conferences:

Parents may contact teachers in person, by email, or by telephone. School scheduled Parent Conferences are held after the 1st quarter.

PowerSchool

PowerSchool, our computer student information system, includes a web portal that gives parents and students access to grades, attendance, email contact information, course requests and school announcements. Login account information is given at registration. Students and parents should login at least once each week to check for messages and grade progress.

Repeated Classes:

Phys Ed Fitness, Band, Choir, and Yearbook may be repeated for credit. A student who repeats any other class in which credit has already been earned will earn a grade but no credit. Both grades appear on the transcript. Example: A student earned a D in Algebra. The Geometry prerequisite of C or better prohibits the student from continuing the sequence. The student may repeat the class for a grade but no credit to advance to Geometry.

Report Cards:

Grades are viewable on the PowerSchool portal throughout the year.

A printed report card will be mailed at the end of each quarter and semester.

Semester grades (Jan and June) are the grades that become part of the student's permanent record and are listed on the transcript for colleges.

Semester grades are computed using the formula:

40% quarter 1 percent.....		50% quarter 1 percent
40% quarter 2 percent.....	OR	50% quarter 2 percent
20% Semester exam percent.....		<i>(if no exam given)</i>

Grade Changes/Corrections: A student who believes a grade error was made on a printed report card must notify the office **within 14 days** of the end of the term.

Incompletes An 'I' grade may be temporarily given on a report card for a student who is absent near the end of a marking period and has missing work.

- One day of make-up time for each day of absence will be allowed.

Incompletes must be made up within two weeks after the end of the marking period unless special arrangements are made with the principal. **Incompletes**

not made-up automatically become an 'F'. It is the student's responsibility to make up the work within the required time period.

Families can request a 2nd report card copy to be mailed to a parent with a different mailing address by contacting the School Office.

Schedule Changes

- Student schedule changes during a term are discouraged. A student schedule change request can be made to the Guidance Director during the first 10 days of a class. The instructor, parent and Guidance Director must approve the change.
- Courses cannot be added after the tenth day of a semester
- Courses dropped after the second week of a semester receive a semester "F".
- Students may NOT drop a full year course at the end of the first semester.
- The school may cancel any course if there is an insufficient number of students requesting the class or if the school is unable to obtain a qualified instructor.

Structured Learning Class

Students needing extra academic help may be placed into the Structured Learning Class. In SLC, students have one study class period each day in a small group with a teacher. Students must keep a daily assignments planner. SLC is NOT special education - curriculum will not be modified for students. Letter grades and credit are earned but are not calculated in the GPA.

Transcripts

Tuition obligations must be paid before the Association releases transcripts. There is a \$3.00 fee for each transcript sent after graduation. A transcript includes:

1. Name, address, DOB, and social security number(*if on the test score sticker*)
2. All semester grades from Grade 9 to Grade 12
3. Cumulative grade point average
4. Class rank (____ out of ____ ranked by cumulative GPA)
5. Achievement and college entrance test scores (EXPLORE, PLAN, ACT)

Official transcripts are mailed directly to a college or employer. Transcripts released to students may be considered invalid.

Transfer of Credits (Summer School/Online Classes)

The student must obtain the approval of the guidance department prior to enrolling in an online class, summer school or night school. A counselor will help the student select a class that will transfer in to LHW. The principal must approve credits transferred to LHW.

COURSE DESCRIPTIONS

ART

Required: 2 credits of Fine or Practical Arts or Foreign Language
Art courses count as Fine Art

Fundamentals/Sculpture (*alternate years*) (500 + 516) 10, 11,12

Prerequisites: None

Introduction to basic elements of design through drawing, painting, sculpture, print making, and art history. Sculpture students will learn the basics of 3-D design through a variety of media with an emphasis on clay. Projects may include hand-built pottery, sculpture (human and animal forms), tile making, and the study of sculpture in our own and other cultures.

Drawing/Painting (*alternate years*) (505 + 501) 10, 11,12

Prerequisites: None

Drawing teaches the basic elements of drawing using pencils, ink, markers, and colored pencil to make still life drawings, portraits, and cartoons. In Painting, the student will gain a working knowledge of color mixing and color schemes using tempera, watercolor, and acrylics to make still life paintings and nature landscapes.

ART SEMINAR 07300 12

Prerequisite: Senior student who has 2 art credits and teacher approval.

Advanced students will work independently in a media they select under the guidance of the art teacher.

BUSINESS

MARKETING (550+551) Elective 10,11,12

Students will learn the language of marketing and distribution. Topics include: consumer economics, world channels of distribution, careers in marketing, promotion and pricing, and human relation skills.

COMPUTER

Required: 2 credits of Fine or Practical Arts or Foreign Language
Computer courses count as a Practical Art.

COMPUTER APPLICATIONS 1 13130 9, 10

Students will develop keyboard speed and accuracy. Students will use Microsoft Word to format documents, Excel to create spreadsheets including formulas and charts, Access to analyzing data, and PowerPoint for visual presentations. *Students who demonstrate touch typing proficiency at 40 wpm may test out of the first semester.*

COMPUTER APPS 2 *MEDIA AND WEB DESIGN* 08300 10, 11, 12

Students will use technology to develop advanced Microsoft Office, multimedia and web page projects. Students will use Photoshop and Gimp for photo editing, Microsoft Movie Maker to create movies, and Adobe DreamWeaver for web design.

COMPUTER APPS 3 *INDEPENDENT STUDY* 11, 12

Students will maintain the content and appearance of the school web site or work independently on an approved technology topic (Adobe Premiere, Photoshop).

YEARBOOK 02381 May be repeated for credit 10,11,12

Prerequisites: Approval of instructor and C or higher in English

Students will produce the school yearbook. Students will learn how to write effective copy and captions, how to manipulate digital photographs using PHOTOSHOP or Gimp, and how to solicit advertisements. Students will be evaluated on the basis of successful completion of assigned work by deadlines.

ENGLISH

Required: 4 credits of English

ENGLISH 9 (Grammar and Literature) 02101 Required 9

This course emphasizes grammar, literature, writing, and research. Grammar studies include parts of speech and sentence structure. Various genre of literature will be studied, including: short story, poetry, nonfiction, biography, drama and the novel. A research paper will be completed during second semester. Two book reports will be completed during the year.

ENGLISH 10 (Composition) 02201 Required 10

This is a composition course that attempts to improve students' writing skills. Grammar and punctuation rules are studied and then applied to a variety of writing forms such as essays and short stories. Four novels will also be read, and a book report will be written on each. Vocabulary building will also be included.

ENGLISH 11 (American Literature) 02301 Required 11

This is a survey course of American literature from the Colonial Period through the Modern Age. Oral and written composition, based on these works, will provide for the refinement of speaking and writing skills. Grammar is reviewed as needed and vocabulary is studied daily. Students will be responsible for writing three literary analyses papers throughout the year. These papers will require a critical overview of the author, an analysis of a specific literary element, and/or a well-organized evaluation of a specific literary work (novel, short story, poem or drama).

ENGLISH 12 (English Lit. & Adv. Composition) 02401 Required 12

This is a chronological study of literature in England and includes all genres of literature. Grammar use that focuses on improving sentence structure is included throughout the year. Composition will expand on styles and techniques previously taught. A research paper will be required, and two book reports will be completed during the year.

FOREIGN LANGUAGE

Required: None for graduation

A minimum of 2 years is recommended for college bound students

SPANISH I 09121 10

Prerequisites: GPA 2.5 or department approval

The student will learn to read, write, listen and speak through oral repetition, drill, and memorization using basic Spanish.

SPANISH II 09221 11

Prerequisites: Spanish I (C or better)

A course intended to increase the student's vocabulary and use of other verb tenses. Spoken Spanish will be emphasized so that the student is able to communicate in actual situations. The study of the culture will also be included.

SPANISH III 09321 12

Prerequisites: Spanish II (B or better), or teacher approval

The course focus will be on composition and the reading of short stories. Cultural exposure will be increased. Students may take the AP Spanish test in May.

INDUSTRIAL ARTS

Required: 2 credits of Fine or Practical Arts or Foreign Language

These courses count as a Practical Art.

INDUSTRIAL ARTS (Auto and Drafting) 14100 10,11,12

Students study the basic operation and maintenance of cars including simple concepts such as how to put gas in the car and more complex ideas such as how liquid gasoline fuels the engine. Drafting will include skills in lettering, lines, dimensioning, print reading and scaling using traditional paper and pencil drafting tools.

ARCHITECTURAL DRAFTING (Independent Study) 14201 11,12

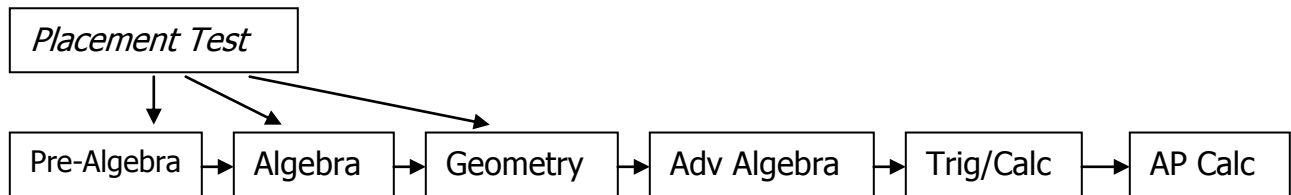
Prerequisites: Industrial Arts

Students will learn the basic drawings needed to build a house: floor plans, elevations, plot plans, section views, interior/exterior framing drawings, and specifications. Students will use TurboCAD to develop computer-generated drawings.

MATHEMATICS

Required: 2 credits

College bound students should take 3 or 4 credits (Algebra and above)



PRE-ALGEBRA 04111 Prerequisite: Placement Test 9,10
This course reviews basic arithmetic and algebraic operations. It introduces solving equations and problem solving techniques to prepare students for Algebra I.

ALGEBRA 04141 9,10,11
Prerequisite: Pre-Algebra ("C" or better) or Placement Test
This course involves the study of algebra from its basic postulates to working with quadratic equations. The following topics are covered: linear equations, polynomials, radicals, factoring, functions, and graphing using Cartesian coordinates. An emphasis is placed on development of problem solving skills.

GEOMETRY 04151 9,10,11,12
Prerequisite: Algebra 1 ("C" or better) or Placement test
This course develops problem-solving skills using geometrical postulates and theorems to develop deductive and inductive proofs. Students use theorems to determine the lengths, angles, areas, and volumes of various two- and three-dimensional geometric shapes.

ADVANCED ALGEBRA 04201 10,11,12
Prerequisite: Geometry ("C" or better)
This course includes quadratic equations, quadratic relations, and trigonometry. The understanding of quadratics is used to unite concepts from Algebra I with concepts from Geometry as students learn to graph quadratic relations. An emphasis is placed on development of problem solving skills.

TRIGONOMETRY/CALCULUS 04350 11,12
Prerequisite: Advanced Algebra ("C" or better)
The course comprises topics from the algebra of real numbers, vectors and complex numbers and a thorough study of circular and trigonometric functions. It also includes a detailed analysis of mathematical functions (polynomial, natural logarithm, natural exponential and circular), limits, derivatives and integration.

AP CALCULUS 04421

12

Prerequisite: Calculus ("B" or better) & Department approval.

Required exam. Approximate fee: \$100.

This course will include the study of Functions, graphs, limits, derivatives, second derivatives, Integrals, Riemann sums, the Fundamental Theorem of Calculus, antidifferentiation, and series. The goal of the class is to prepare students for challenging university level math classes and the AP Calculus (AB) exam. A student purchased graphing calculator is required (approx \$100).

MUSIC

Required: 2 credits of Fine or Practical Arts or Foreign Language

Music courses count as Fine Art

CONCERT CHOIR 11121 May be repeated for credit 9,10,11,12

Prerequisite: Audition required, not in Honors Choir

Concert Choir is the entry-level vocal group that sings 2- and 3-part sacred and secular music in a variety of styles. They perform in two or three concerts during the year and sing periodically in chapel. The emphasis is on singing to the glory of God and improving rhythm, sight-reading, tone quality, and ear training.

HONORS CHOIR 11131 May be repeated for credit 9,10,11,12

Prerequisite: Audition required, not in Concert Choir

This select choir of 12 to 24 accomplished singers performs a wide variety of more challenging music styles emphasizing interpretation and giving glory to God in song. Members must enter with excellent skills in rhythmic patterns, sight-reading, tone quality, and ear training. Honors choir members must commit to not only the two or three school concerts, but also monthly Lutheran High Sundays at area congregations, other community events, and possibly a choir tour.

CONCERT BAND 11141 May be repeated for credit 9,10,11,12

Prerequisite: Audition required

The Concert Band presents an opportunity to praise God using musical instruments. Emphasis is placed on rhythmic sense, sight-reading, technique and tone quality, and phrasing and interpretation of a variety of musical styles. Outside of class time, band members are required to participate in LHW's two or three concerts each year, select home basketball games for Pep Band, Future Freshmen Day, Graduation, and in some years a tour to area Lutheran grade schools.

PHYSICAL EDUCATION

Required: 1.5 credits of P.E. and .5 credit of Health

½ Credit of PE may be waived for each athletic season completed in grades 10-12

PHYS ED 9/ HEALTH

Required 9

Students develop skills of running, jumping, throwing, and catching. Units include: flag football, soccer, basketball, volleyball, weight training, track and softball. Health units include: personal health habits; advertising claims; disease causes and treatment; mental health; and substance abuse - alcohol, drugs and tobacco.

PE Fitness Training 06250 May be repeated for credit Elective 10, 11,12
A co-ed class including weight, aerobic and cardiovascular training exercises.

RELIGION

Required: 1 credit for each year of attendance

Bible version preferred: New International Version Bible (NIV)

RELIGION 9 (OLD TESTAMENT) 01101

Required 9

This course follows God's people through the study of the Old Testament. The purpose of this class is to grow in the knowledge of how God's plan of salvation would come through his people as promised. Many of the heroes of faith will be studied including Adam and Eve, Noah, Abraham, Isaac, Jacob, Joseph, Moses, Joshua, Saul, David, Solomon, Ester, and Jeremiah.

RELIGION 10 (NEW TESTAMENT) 01201

Required 10

This course surveys the Life of Christ and the early Christian Church through the study of the four Gospels and Acts. Units include: The people of His time, the land He lived in, the things He came in contact with, His birth, death and resurrection, His teachings and His miracles, and the origins of the Bible. The primary purpose of the class is to grow in the knowledge of the redemptive work of Christ.

RELIGION 11 (CHRISTIAN DOCTRINE) 01311

Required 11

This course includes the doctrines of the Christian faith, Christian Ethics, and the application of theory to everyday living. The student's personal faith and commitment to Christ is a major concern of this study.

RELIGION 12 (CHRISTIAN LIFE) 01321

Required 12

This course is devoted to equipping for ministry and service to others. Emphasis is placed on the application and understanding of scripture and doctrine to the life of the individual. Later in the year the focus turns to a study of church history, world religions, cults, and the backgrounds of various Christian denominations.

SCIENCE

Required: 2 Credits

College bound students should take 3-4 credits

BIOLOGY 05111

Required 9

This course will use a lecture/discussion and laboratory approach to study life from the microscopic level of a cell to the inter-relationship of different organisms. Topics include the biochemistry of a cell, reproduction and heredity, growth and development, anatomy, life processes, and ecology. These studies will encompass the five major kingdoms: Monerans, Protista, Fungi, Animal, and Plant.

CHEMISTRY 05201

10,11,12

Prerequisite: Biology and Algebra I 'C' or better

Students will investigate substances, their properties, and the nature of the processes by which they interact. Topics will include: atomic theory, periodic relationships, gas laws, acids and bases, and chemical reactions.

ENVIRONMENTAL SCIENCE 05201

10,11,12

Prerequisite: Biology, Not open to students who have taken Advanced Biology

This course investigates the beauty of God's creation and our role in it. Topics include: Biomes of the world, human relations and care of the world. Students will do a yearlong ecosystem project, charting factors, as well as other labs including H₂O testing and soil testing. A research project is required.

PHYSICAL SCIENCE 05201

10,11,12

Prerequisite: Biology, This course will use a lecture/discussion and laboratory approach to study the scientific method with the ability to apply it to real world settings. Students will use this method when learning the following topics: Inquiry, Reflection, and Social Implications in Science, Essential Physics (Motion, Forces and Newton's Laws, Momentum, Work and Simple Machines, Electricity and Magnetism, Waves, Sound and Light), Essential Earth Science (Plate Tectonics, Earthquakes and Volcanoes, Rocks and Minerals, and Weather), and Essential Chemistry (Matter and Physical Changes, Atomic Structure, Periodic Table, Ions and Isotopes, Chemical Bonding, and Chemical Reactions).

ADVANCED BIOLOGY 05301

11,12

Prerequisite: Chemistry "B" or better

A lecture/discussion and laboratory approach will be used to cover Biochemistry of the cell, cell processes, and human anatomy and physiology. This course is recommended for students who anticipate careers in the Allied Health, Medicine, Biology or for general college prep. Students will be introduced to the format of research and will be required to complete an individual paper. Evolution will be studied from a Christian perspective.

PHYSICS 05321

12

Prerequisite: Adv Algebra, C or better

A study of God's physical universe including the following major topics: motion, forces, vectors, energy, waves, light, electricity, magnetism and nuclear physics. Students should have a solid background in trigonometry to be successful. Two labs are done each quarter.

SOCIAL STUDIES

Required: 3 credits: 1 credit of either World Geography or World History.
1 credit of U.S. History or AP U.S. History,
1 credit American Government

WORLD GEOGRAPHY 03111

9,10

Knowledge of the geography of the world and skill with maps is the foundation of the course. The first semester concentrates on the physical geography and the geography of North America. The second semester is an overview of the nations of middle and South America, Europe, Russia and Asia.

WORLD HISTORY 03131/03132

9,10

This course presents the history of several world civilizations. The emphasis throughout the course is on the use of history to understand the modern world. The first semester's work will focus on the cultural heritage of ancient and medieval cultures and the rise of the nation-state in Europe as factors in the development of western civilizations. The second semester will trace the history and cultural heritage of the developing nations of Asia and Africa, with special emphasis on the role of "Third World" countries in the family of nations today. Emphasis will also be placed on development of thinking skills and strengthening of writing skills.

UNITED STATES HISTORY 03301

11

This course presents an overview of the history of our country from colonial times to the present.

AP UNITED STATES HISTORY (Advanced Placement) 03311 11

Prereq: 3.5 or above GPA, 'B' or better in World History and Dep't Approval
Student Exam Fee: Approximately \$90.

This course presents an overview of the whole of our country's history from colonial beginnings to the present day. The emphasis is on the use of history to explain, understand, and appreciate our nation's development and its current position and potential as a world power. Practice in analytical historical thinking and refinement of writing skills are also emphasized. This course will also prepare students to take the Advanced Placement test in U.S. History in the spring of the junior year for possible college credits.

AMERICAN GOVERNMENT 03400 Required 12

This course is the study of national, state, and local governments. Basic principles underlying a democracy are examined with a view toward understanding how well these principles find expression in our nation's political practices. Current events will be studied to examine contemporary political challenges and the proper Christian role in society today.

PSYCHOLOGY 03500 (AP Psychology option) Elective 12

This course is an introduction to the basic concepts of psychology. While learning how to apply psychological principles to their Christian daily life; each student will investigate modes of learning, thinking, memory, perception, motivation, emotion, and human development. Course requirements include daily reading, psychological research, analysis of behavior and development, and trends in modern psychology. Second semester topics include motivation, intelligence, personality theory, psychological disorders, abnormal behaviors and therapies. Students are expected to design and conduct basic psychological research as well as learn APA style.

STRUCTURED LEARNING CLASSES

STRUCTURED LEARNING 00061 9,10,11,12

Prerequisite: Placement by the Guidance Director

The Structured Learning Class assists students with a demonstrated academic need. Students receive one study period each day in a small group meeting with a teacher. A letter grade and credit are earned for this course but not included in the GPA. Students must keep a daily assignment planner.

VOCATIONAL/TECHNICAL COURSES

These courses (most of them 2-year) are available to junior and senior students through a shared-time agreement with the Wayne-Westland School District at the William D. Ford Vocational/Technical Center.

Students must be able to meet standard graduation requirements as well as have the approval of the guidance director and the principal. Students earn 3 credits while taking the first 4 periods of each day at VOTECH. Students may take one or both years. Student must provide transportation TO Votech.

*Programs listed with ** usually fill up with Wayne/Westland students and may not be available to LHW students.*

Alternative Energy Technology This program studies the “green” and high-tech world of alternative energy. Students explore solar power, photovoltaic systems, biomass production and wind power. Textbook theory is reinforced by practical application lab projects, culminating in working with solar panels and wind turbines.

Auto Body Repair I & II This program is designed to teach the skills of repairing minor collision damage to motor vehicles, as well as minor restoration of vehicles. The student will use grinders and polishers, air sanders, spray guns and sheet metal pulling devices.

Automotive Technology II & III Students learn diagnosis and repair of engine performance, electrical systems, brake systems, suspension and steering and air conditioning, automotive on-board computers, fuel injection service, and computer wheel alignment. Opportunities are offered for Michigan Mechanic certification. Toolbox purchase is required (\$45.00).

Business and Computer Tech I & II Students learn in an office-like environment, using Microsoft Office 2007 and Dreamweaver. This course prepares students for employment opportunities in today's high-tech business environment. After acquiring the core skills in each application program, students can apply to take the Microsoft Office Specialist Certification (MOS) exam.

****Child Day Care I & II** Students gain experience observing, planning and working three days each week in the on-site preschool program, called Sunshine and Rainbows. Each student will be assigned a theme and be responsible for all of the planning for one day. All students will go into the community to serve a two or three week internship. Students will complete a portfolio second semester.

Computer Aided Design/Drafting (CADD) I & II CAD is a high tech approach to drafting that introduces individuals to mechanical, architectural, and structural sketches. Students will be provided extensive experience in both manual and Computer Aided Design/Drafting using AutoCAD Software.

Comp Aided Manufacturing I & II (CAM) A high tech approach to machining and manufacturing including computer aided machining (CAM), computer numerical control (CNC), hydraulics and pneumatic principles of robotics.

Construction Technology I & II Learn to build a house. Masonry, flooring, walls, roofing, electrical, plumbing, dry walling, cabinetry, painting, Formica, stairs, doors, windows and more are taught. Learn safe and proper use of hand and power tools. Read blueprints and estimate materials used in building a house. Students build a house in Con. Tech II.

Cosmetology I & II Students attend the Virginia Farrell Beauty School (Wildwood Plaza) for 1500 hours of instruction over two years (summer training between the junior and senior years is required).

Culinary Arts/Hospitality I & II The program prepares students for occupations in the hospitality industry. The classroom work teaches the techniques used in a commercial kitchen, short order cooking, and dining room service. The labs are divided into workstations and each student rotates from station to station for a period of two to six weeks. Students will prepare food for Cafe Marquette, a public restaurant, and the Skills Grill, a student restaurant.

Desktop Publishing I & II Students learn publishing skills with emphasis on designing page layouts for press ready documents. Software used is Adobe Creative Suite (CS4), InDesign, Photoshop, Illustrator, and Acrobat 9 Professional. Students will create flyers, business cards, brochures, newspaper ads, and postcards.

V3220 Digital Media Technology I & II Students are given instruction with professional software in:

Photography: retouching, color correction, image manipulation, printing, lighting; and web page resumes; Adobe Photoshop CS3; portrait photography, landscape, macro, still life, panoramas are featured lessons

Animation: 2D animation concepts and history of animation; flash animations for the web; stop-motion

Video: storyboarding skills, camera skills; professional editing techniques. Lessons include: short subjects, commercials, live event coverage, music video, highlight reels using FinalCut Pro

2nd year students do portfolio work, creating online resume web pages and demo reels.

V2610 Electronics/Robotics Technology I & II This program will develop electronic technology skills including alternative energies and the use of various test equipment such as the volt ohmmeter, digital multi-meter, signal generator, oscilloscope, and an introduction to robotics. Students complete projects and demonstrate their skills and abilities on an ongoing basis throughout the course. The second year includes the study of semiconductor technology, digital fundamentals and robotic fundamentals.

****V5010 Emergency Medical Technician (EMT)** This course is offered to *senior students only*. Students must be 18 years old within one year of course completion to be eligible to take the National Registry EMT B-Exam. Students must pass the class with 80% or higher to be eligible to take the National Registry EMT written and practical skills exams. Students will be required to complete a minimum of 36 clinical experience hours, 24 hours with an EMS provider in an ambulance and 12 hours in an emergency room at a local hospital. These clinicals will be scheduled through the Career-Technical Center. Upon passing the EMT B-Exam, the student is eligible to continue their studies to be a paramedic.

****V7110 Game Design & Programming** **Prerequisite: Strong computer skills and math background are helpful**

This course introduces students to computer programming through game design. It is intended for students who want to pursue a career in an information technology field such as: engineering, programming, or consulting. The primary tool used is ActionScript 3 which is the language used by Adobe Flash. Example games include: Space Rocks, puzzles, a racing game, and a platform game with multiple levels. Students learn and have direct practice applying programming topics, including: functions, arrays, loops, classes, sprites, animation, sound, and game physics.

****Graphic Design I & II** This class develops skills in visual communication. Course of study includes:

- Print design and production - Students create brochures, flyers, CD covers, posters and a variety of other print materials.
- 2D traditional and digital illustration - Students create 2D illustrations using traditional drawing media and Adobe Photoshop.
- 3D modeling, rendering, and animation - Students will create 3D models, adding materials & textures, background images, and key framing objects for animation and walkthroughs.
- Web design - Rich media, Flash and gif animations will be emphasized
- Display graphics, silkscreen and embroidery - Students create signs, heat transfers, silkscreen and embroidered apparel.

V1510 Graphic/Printing Communications I & II Students will learn electronic publishing, computer-to-plate preparation, operating offset presses, bindery equipment, dye sublimation printing, and screen-printing. Students create their own business cards, greeting cards, buttons, brochures, coffee mugs, and T-shirts. A new component in the classroom is digital printing, which gives students exposure to operating a copy center. In the second semester, students may be eligible for Co-op, learning on the job while being paid. There are many employment opportunities after completing high school. Students are encouraged to participate in SkillsUSA, Michigan Industrial Technology Education Society (MITES), and Gutenberg competitions and awards.

****Health Occupations I & II** This program provides training in the skills needed as a Treatment Technician or Home Health Aide, Unit Clerk, Veterinary Aide and Physical Therapy Aide. Hands-on experience is provided in orthopedics, labor and delivery, postpartum, neuro rehabilitation care, care of preoperative and postoperative patients, and geriatric patients. The student will learn basic anatomy and physiology, patient care, first aid, CPR, medical terminology, physical therapy skills, employability skills and medical ethics. Clinical experience in a nursing home, which is mandatory, will be scheduled during class time. Students will be required to wear a uniform, obtain a physical examination and tuberculin test. Students participate in job shadowing experiences.

Heating/Air Conditioning/Refrigeration I & II This program is designed to train students in diagnosing, maintaining and repairing residential and small commercial heating/air conditioning units. Students learn blueprint reading, sheet metal fabrication, heat transfer gain and loss principles, test equipment operation, and tool nomenclature

Media Production I & II Students gain practical knowledge of color and black and white digital photography. Other instruction includes: pinhole photography, portraiture, commercial, photojournalism, photo restoration, and cinematography, animation, and video editing. During the second semester, 16 mm motion picture film, video production, animation, documentaries, and building a portfolio or demo reel is covered. Experience in photography or other visual arts is helpful, but not required.

****Medical Assisting I & II** This program instructs students in the administrative and clinical care procedures of the medical office. Students will learn computer applications, communications, patient accounting, insurance billing and coding, appointment scheduling and medical office management. Clinical skills include ECG, injections, phlebotomy, medication administration, vital signs, sterile technique and laboratory procedures. Anatomy and physiology, medical terminology and medical math are covered in depth in this class. Certification in CPR, First Aid and ECG are available upon completion of requirements. A uniform is required for this program.

V7310 Vehicle Design Technology This course is a computer aided design and pre-engineering program that focuses on bringing to life an actual vehicle powered by an electric motor (i.e. IVD car, wheelie car, electric scooters, wheelchairs, etc.). The class will cover the math and physics concepts required to design and build a small electric vehicle, and will culminate with an actual working prototype build of a vehicle. In addition, a small-scale presentation clay model will be produced of the actual build vehicle and/or other designs from the vehicle concept stage. The classroom will resemble a typical vehicle design work area where student teams will have their own workstation area. These workstations will enable the students to use the same design/engineering principles as industry leaders.

V5800 Web Design: Integrated This course is designed to provide students a solid foundation in creating dynamic web sites. Students begin by creating basic pages using HTML and CSS. Students then develop additional pages and complete sites with the use of Dreamweaver. Students utilize other industry-standard software within the CS4

suite including: Flash, Fireworks, and Photoshop. The second stage of the class involves developing short animations and interactive sites. Students learn about Content Management Systems (CMS) and get first-hand experience with JOOMLA. CMS represents a growing portion of web design business and allows for quicker development time and the use of site templates. Students research client needs and then plan, modify, and develop client sites.

Welding Technology I & II This program is designed to prepare students for entry-level welding occupations. Students learn basic and advanced welding techniques in oxyacetylene, gas metal arc, shielded metal arc and gas tungsten arc welding processes. Students also use basic math and measurement skills to assist them in the building and repair of many things. Brazing, oxyacetylene cutting and blueprint reading are included.

SAMPLE 4 YEAR PLANS

Electives: Industrial Arts Honors Choir Art Yearbook
 Concert Choir Consumer Math VOTECH Band
 Psychology Marketing Web Design Bus. Mgmt

Shaded cells are electives, white cells are required.

Average – Preparation for typical college admission

9	10	11	12
Religion	Religion	Religion	Religion
English	English	English	English
Algebra	Geometry	Adv. Algebra	<i>Elective</i>
Biology	Chemistry	<i>Elective</i>	Advanced Biology
Computer Applic.	Spanish 1	Spanish 2	<i>Elective</i>
World Geography	<i>Elective</i>	US History	Amer Government
Phys Ed/Health	<i>Elective</i>	<i>Elective</i>	<i>Elective</i>
Study Hall or elect	Study Hall or elect	Study Hall or elect	Study Hall or elect

Advanced – Preparation for a highly competitive college

9	10	11	12
Religion	Religion	Religion	Religion
English	English	English	English
Geometry	Adv. Algebra	Trig/Calculus	AP Calculus
Biology	Chemistry	Advanced Biology	Physics
Computer Applic.	Spanish 1	Spanish 2	Spanish 3
World History	<i>Elective</i>	AP US History	Amer Government
Phys Ed/Health	<i>Elective</i>	<i>Elective</i>	<i>Elective</i>
Study Hall or elect	Study Hall or elect	Study Hall or elect	Study Hall or elect

Minimum (2 science, 2 math, and VOTECH)

9	10	11	12
Religion	Religion	Religion	Religion
English	English	English	English
Pre-Algebra	Algebra	VOTECH	VOTECH
Biology	<i>Elective</i>	VOTECH	VOTECH
Phys Ed/Health	<i>Elective</i>	VOTECH	VOTECH
Computer Applic.	World Geography	US History	Amer Government
SH/Struc Learn.	Spanish 1	Spanish 2	Chemistry
Elective	Study Hall or elect	Study Hall	Study Hall

DROPPED COURSES

AP ENGLISH 02421

12

Prerequisite: 3.5 GPA and Dept approval

This course is designed for those students who have demonstrated proficiency in previous English classes. The course will be an extensive study of British literature including all genres. Additional novels will also be read outside of class. Emphasis will be on composition styles and techniques and will be related to the literature. A research paper will be required. In each quarter AP style essays will be written. The AP test will be required for all students. Cost: Approximately \$90.

Spanish Literature 09421

12

Prerequisites: Teacher approval

This independent study course emphasizes Spanish literature using Spanish novels. Students will read and answer questions in Spanish.