

Lakeshore Lancers



**Program of Studies
& Career Pathways**

2010-2011



Lakeshore Public Schools
2010-2011 Home of the Lancers
High School Program of Studies & Career Pathways

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2010-2011

Home of the Lancers



**Program of Studies
& Career Pathways**

Lakeshore High School

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Program of Study Information

Selecting Your Program

Planning the four year high school program and future career go hand in hand. Think about future goals when selecting courses each year. Are you planning to go to college or work after high school? What courses fulfill college admission requirements? Carefully consider aptitudes, interests, strengths, and weaknesses. Then discuss these factors with counselors, parents, and teachers. Each of these individuals can provide valuable information to assist you when making high school program decisions. Lakeshore High School offers many courses that will enrich basic programming or expand your knowledge in specific subject areas. These courses are extremely helpful in preparing for the future.

Career Planning

All students have been asked to select a Career Pathway in one of the following areas: Arts and Communications; Business, Management, Marketing, and Technology; Engineering/ Manufacturing and Industrial Technology; Health Sciences; Human Services; or Natural Resources and Agriscience. Within each of these pathways, students can concentrate on either a technical plan or a professional plan. Each of these plans requires some form of post-secondary education or training. The technical plan requires two years or less of post secondary training, and the professional plan requires a minimum of four years or more at a college or university. Your counselor will assist you in this process.

Programming Policies

Students must take a maximum of six classes per semester or 12 classes per year. Credit may be earned through the regular day high school or extended day program. Students may also earn credit through pre-approved accredited summer high school, college, and academic achievement center courses.

Course Credit

One-half (1/2) credit equals one (1) semester of work successfully completed. One (1) credit equals two (2) semesters of work successfully completed.

Direct Credit/Early College

Students may earn college credit by taking direct credit courses offered through Lakeshore High School. Direct credit courses are Lakeshore classes that use the same syllabus, standards, and outcomes as the college. A Lakeshore or Career Technical Education staff member teaches these courses. Students who elect to earn college credit must pay a minimal fee for this opportunity. The fee is significantly lower than tuition costs at the college. Placement tests and other enrollment forms may be required. See page 39 for a list of LHS direct credit courses.

Look for bold statements at the end of course descriptions to identify approved courses.

Dual Enrollment

Junior and senior level students may be eligible for college credit if they enroll in classes taught on college campuses. Dual enrollment is a course option during the regular school year

that allows students to take courses not offered at Lakeshore High School. A three-hour course taken at the college replaces one current high school semester class. Students may be required to schedule night courses due to conflicts between the high school and college schedule. Students should see a counselor for further information regarding enrollment requirements and book fees. www.legislature.mi.gov (Public Act 160 of 1996)

Advanced Placement

Through the College Board's Advanced Placement (AP) Exam Program, students have the opportunity to earn college credit or advanced placement at most colleges and universities. Students electing to take AP courses taught at Lakeshore are encouraged to take the AP exam offered in early May. The College Board sets the calendar and student-paid exam fee. The amount of college credit earned based on the exam score varies between institutions.

Testing Out

State law requires high schools to allow students to test out of courses by exhibiting mastery on the final exam. Lakeshore Public Schools will allow these courses to count toward fulfillment of subject areas and course sequence requirements but NOT toward fulfillment of the 22 credit graduation requirement. Exams must be taken prior to the beginning of a semester. Students must score 77% or better. Any student interested in testing out should contact his/her guidance counselor. Credit will be granted but no grade will be issued.

Transfer Credit Evaluation

The philosophy of credit evaluation will be based on giving transfer students an equal but not undue advantage over district students. All students must attempt eight semesters of high school and achieve required courses and credits to graduate from Lakeshore High School. Transfer students will have course grades equated to the grading system used by Lakeshore High School. Study hall and driver education courses will be listed on an official transcript and will receive NO credit (N). Credits earned from other scheduling systems (example: block or seven hour day) will be converted to a six-period day schedule.

Michigan Merit Curriculum

To prepare Michigan’s students with the knowledge and skills needed for the jobs in the 21st Century, the State of Michigan has enacted a rigorous set of statewide graduation requirements that are among the best in the nation. Effective with the Class of 2011 and beyond, sixteen graduation requirements will help prepare students for future success in college and the workplace.

The Michigan Merit Curriculum is aligned with new and developing Michigan High School Content Expectations (HSCE). These course/credit content guidelines outline what students should know and be able to do for each credit required in the Michigan Merit Curriculum. (www.michigan.gov/highschool)

Michigan Merit Curriculum Requirements

MATHEMATICS - 4 Credits

Algebra 1, Algebra 2, Geometry, and One math course in the final year of high school

ENGLISH LANGUAGE ARTS - 4 Credits

English Language Arts 9, 10, 11, 12

SCIENCE - 3 Credits

Biology, Chemistry or Physics, and One Additional Science Course

SOCIAL STUDIES - 3 Credits

World History & Geography, US History & Geography, Civics (.5 Credit) and Economics (.5 Credit)

PHYSICAL EDUCATION & HEALTH - 1 Credit

VISUAL, PERFORMING, & APPLIED ARTS - 1 Credit

ONLINE LEARNING EXPERIENCE

Students may achieve this requirement by taking an online course, participating in structured online learning activities, or participating in online experiences integrated into required Michigan Merit Curriculum courses. Presently Computer Applications, Computer Literacy, and AH Computer 1 meet this requirement.

LANGUAGE OTHER THAN ENGLISH (Class of 2016) 2 Credits

Complete in Grades 9-12; or equivalent learning experience in grades K-12

Lakeshore Graduation Requirements

Classes of 2011, 2012, 2013, and 2014

Students are required to complete 22 credits and specific classes listed below (+required courses). In addition to achieving a minimum of 22 credits, students must also participate in the Michigan Merit Exam (MME) in the spring of their junior year. Participation in the annual graduation ceremony will be limited to those seniors who have met all requirements.

- English** 4 credits
 - + Freshman English. 1 credit
 - + American Literature 1 credit
 - + Contemporary Literature & Writing or British Literature and Composition or AP English Language & Composition 1 credit
 - + 1 Additional English Credit 1 credit
 - Mathematics** 4 credits
 - + Algebra 1 Course 1 credit
 - + Geometry Course. 1 credit
 - + Algebra 2 Course (as specified in the Program of Studies) 1 credit
 - + 1 math credit or math related course must be taken in the senior year in order to meet the MMC Math requirement..... 1 credit
 - Science** 3 credits
 - + Biology Course. 1 credit
 - + Chemistry or Physics Course 1 credit
 - + Science Elective 1 credit
 - Social Studies** 3 credits
 - + World History & Geography or AP World History... 1 credit
 - + US History & Geography or AP US History 1 credit
 - + Civics or AP US Government and Politics 1/2 credit
 - + Economics or AP Macro Economics 1/2 credit
 - Physical Education/Health.** 1 credit
 - + Personal Fitness or Dance as specified in the Program of Studies 1/2 credit
 - + Health 1/2 credit
 - Visual, Performing or Applied Arts**
(in any combination) 1 credit
 - Computers** (including online experience) 1/2 credit
 - Electives** 5 1/2 credits
- Meet Michigan Merit Exam requirement (as specified above)**

High school content courses successfully completed at the middle school, as approved by the Board of Education, will meet the Michigan Merit Curriculum requirements for high school, and will be applied to the 22 credits needed for graduation.

College

Preparatory Programs

The most rigorous curriculum possible at Lakeshore will best prepare students for entrance into highly selective colleges and military academies. Since graduation from high school does not ensure admission, students must continually check entrance criteria directly from postsecondary institutions.

Colleges typically look at GPA, course curriculum, test scores, extracurricular involvement, and application materials, in this order, to determine admission.

# of Years	Subject
4	English
4	Mathematics
4	Science (Biological and Physical Sciences)
3	Social Studies including World History
2	World Languages (the same language) <i>-some colleges may count the 8th grade year</i>
1	Visual, Performing or Applied Arts
3-5	Advanced Placement Courses <i>Included in course subjects listed above</i>
1/2 - 1	Computer course or skill proficiency

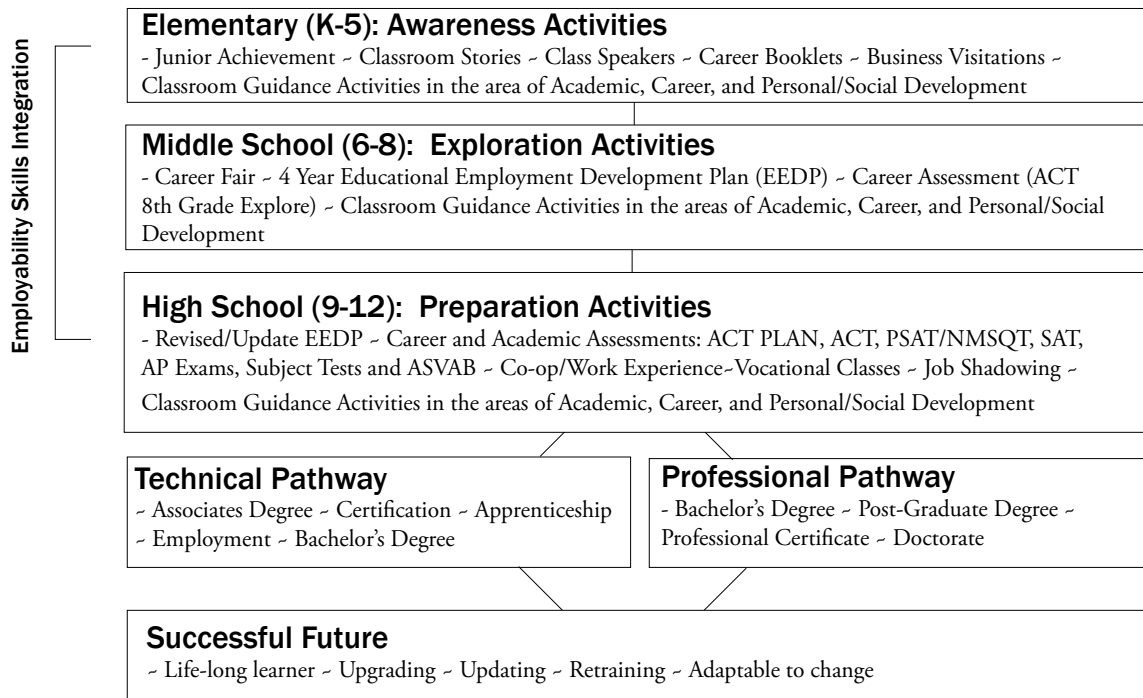
NCAA

Eligibility and Recruiting

Student athletes must comply with *National Collegiate Athletic Association* bylaws in order to compete in intercollegiate athletics. Individuals interested in playing Division I or Division II athletics must submit an Initial-Eligibility Clearinghouse form. It is recommended this form be submitted at the beginning of the junior year of high school. Academic bylaws for Division I and II athletes include qualifying test scores that match grade point averages in specific courses. Division I athletes must complete 16 approved core courses and Division II athletes must complete 14 approved core courses. Approved courses, forms and bylaws may be found on the NCAA website: <https://web1.ncaa.org/eligibilitycenter/common/>

K-12 Counseling Model

At Lakeshore, we strive to prepare our students for the future. By making students aware of their interests, abilities, and career opportunities, we are giving them tools for planning a successful future.



Michigan Career Pathways

Career Pathways are broad groupings of careers that share similar characteristics and whose employment requirements call for many common interests, strengths, and competencies. The desired outcomes of career preparation are student achievement and ultimate success in a career(s) of choice. Career Pathways provide a useful framework to aid students in making those meaningful connections to the working world. Six Career Pathways have been identified to assist students in organizing and investigating a wide range of career options. Each pathway has two tracks. The *Technical* track prepares students for careers that require community college, technical/trade school, or other post secondary training for career level entry. The *Professional* career track is for students considering a four year, or longer, college/university program. Career related information is provided below and on subsequent pages. Pathway information is available online: <http://www.remcl1.k12.mi.us/bcisid>

What are the Six Career Paths?	Is this the path for you?
<p>Arts and Communications: Careers in this path are related to humanities and performing, visual, literary, and media arts. These include architecture; graphic, interior, and fashion design; writing; film; fine arts; journalism; languages; media; advertising; and public relations.</p>	<p>Are you a creative thinker? Are you imaginative, innovative, and original? Do you like to communicate ideas? Do you like making crafts, drawing, playing a musical instrument, taking photos, or writing stories? This may be the career path for you!</p>
<p>Business, Management, Marketing, and Technology: Careers in this path are related to the business environment. These include entrepreneurship, sales, marketing, computer/information systems, finance, accounting, personnel, economics, and management.</p>	<p>Do you enjoy being a leader, organizing people, planning activities, and talking? Do you like to work with numbers or ideas? Do you enjoy carrying through with an idea and seeing the end product? Do you like things neat and orderly? Would you enjoy balancing a checkbook, following the stock market, holding an office in a club, surfing the Internet? This may be your career path!</p>
<p>Engineering/Manufacturing & Industrial Technology: Careers in this path are related to technologies necessary to design, develop, install, and maintain physical systems. These include engineering, manufacturing, construction, service, and related technologies.</p>	<p>Are you mechanically inclined and practical? Do you like reading diagrams and blueprints, and drawing building structures? Are you curious about how things work? Would you enjoy painting a house, repairing cars, wiring electrical circuits, or woodworking? This may be the career path for you!</p>
<p>Health Sciences: Careers in this path are related to the promotion of health and treatment of disease. These include research, prevention, treatment, and related health technologies.</p>	<p>Do you like to care for people or animals who are sick or help them stay well? Are you interested in diseases and in how the body works? Do you enjoy reading about science and medicine? Would it be fun to learn first aid, volunteer at a hospital or veterinary clinic? This may be your career path!</p>
<p>Human Services: Careers in this path are related to economic, political, and social systems. These include education, government, law and law enforcement, leisure and recreation, military, religion, child care, social services, and personal services.</p>	<p>Are you friendly, open, understanding, and cooperative? Do you like to work with people to solve problems? Is it important to you to do something that makes things better for other people? Do you like to help friends with family problems? Do you like reading, story telling, travelling, or tutoring young children? This could be your career path!</p>
<p>Natural Resources and Agriscience: Careers in this path are related to agriculture, the environment, and natural resources. These include agricultural sciences, earth sciences, environmental sciences, fisheries, forestry, horticulture, and wildlife.</p>	<p>Are you a nature lover? Are you practical, curious about the physical world, and interested in plants and animals? Do you enjoy hunting or fishing? Do you like to garden or mow the lawn? Are you interested in protecting the environment? This could be your career path!</p>

2009 Lakeshore Graduates

Class of 2009 – 239 Graduates

55% planned to enroll in four year college/university
 41% planned to enroll in a two year college/technical school
 1% planned to enter the military service
 3% planned to enter employment or were undecided

Roughly, 96% of the 2009 graduates from Lakeshore High School planned to continue their education after graduation.

Education Level Key:

High School Diploma: ♦

1 to 2 Years Past High School: ♦♦

Undergraduate Degree: ❖

Graduate Degree: ❖❖

Career Categories	Courses in School	Sample Careers & The Levels of Education Required
Arts and Communication: Advertising and Public Relations Creative Writing World Languages Journalism Radio and TV Broadcasting Film Production	Journalism Graphic Art Sculpture Fine Arts Courses (Art, Drama, Music) Architectural Drafting and Design Language Arts Photography	Journalist ❖ Radio and TV Broadcaster ♦♦ Public Relations Executive ❖ Dancer ♦ Film Producer ♦♦ Fashion Designer ❖
Business, Mgmt, Marketing & Tech.: Accounting Office Administration Entrepreneurship Hospitality/Tourism Management Computer/Information Systems Marketing Sales Finance Personnel Economics	Language Arts Computer Science Business Management Entrepreneurship Computer Support Marketing Accounting Math	Legal Secretary ♦♦ Hotel Manager ♦♦ Office Manager ♦♦ Computer Programmer ❖❖ Information Security ❖❖ Salesperson ♦ Travel Agent ♦♦ Loan Officer ❖ Economist❖
Engineering/Manufacturing & Industrial Technology: Mechanics and Repair Precision Production Manufacturing Technology Engineering and Related Technologies Architecture Construction Drafting	Physical Sciences/Physics Industrial/Mechanical Drafting Drafting Science Robotics Math Electronics Machine Tools	Architect ❖❖ Plumber ♦♦ Electrician ♦♦ Air Traffic Controller ♦♦ Auto Mechanic ♦♦ Chemical Engineer ❖ Draftsman ♦♦ Surveyor ♦♦ Geographer ❖
Health Sciences: Dentistry Hygiene Nutrition and Fitness Therapy and Rehabilitation Nursing Medicine	Biological Sciences Chemistry Health Education Animal Care Physics Nutrition Math Language Arts	Doctor ❖❖ Veterinary Technician ♦♦ Respiratory Therapist ♦♦ Physical Therapist ❖ Dental Hygienist ♦♦ Dentist ❖❖
Human Services: Education Child and Family Services Food and Beverage Service Law and Legal Studies Social Services Cosmetologist Law Enforcement	History Political Science Psychology Social Studies Culinary Arts Cosmetology Childcare Language Arts	Chef ♦♦ Teacher ❖ Lawyer ❖❖ Police Detective ♦♦ Cosmetologist ♦♦ Librarian ❖❖ Firefighter ♦♦ Social Worker ❖
Natural Resources and Agriscience: Agriculture Animal Health Care Environmental Science Fisheries Management Wildlife Management Horticulture Forestry Life Sciences Earth Sciences	Agriculture Astronomy Chemistry Biological Sciences Animal Science Math Botany Geography	Farmer ♦♦ Oceanographer ❖ Landscaper ♦ Marine Biologist ❖❖ Conservation Agent ❖ Chemist ❖ Physicist ❖❖ Forester ❖

TECHNICAL PATHWAY			
GRADE 9		GRADE 10	
1. Freshman English	1. Freshman English	1. American Literature	1. American Literature
2. Algebra 1 or Geometry (Cpts)	2. Algebra 1 or Geometry (Cpts)	2. Geometry (Cpts), Algebra 2 or Algebra 2A	2. Geometry, (Cpts), Algebra 2 or Algebra 2A
3. Biology (Cpts) or Biology	3. Biology (Cpts) or Biology	3. Biology (Cpts) or Chemistry (Cpts)	3. Biology (Cpts) or Chemistry (Cpts)
4. Wld. History & Geography	4. Wld. History & Geography	4. US History & Geography	4. US History & Geography
5. Computer Applications (Lit)	5. Health	5. Arts Elective	5. Arts Elective
6. Personal Fitness or Dance	6. Elective or Dance	6. Elective	6. Elective
GRADE 11		GRADE 12	
1. Contemp. Lit. or Composition	1. Contemp. Lit. or British Lit.	1. English Elective	1. English Elective
2. Algebra 2, Pre Calculus, Algebra 2A or 2B	2. Algebra 2, Pre Calculus, Algebra 2A or 2B	2. Pre Calculus, Math Related Course or Algebra 2B	2. Pre Calculus, Math Course, Elective or Algebra 2B
3. Chemistry (Cpts), Physics or Science Elective	3. Chemistry (Cpts), Physics or Science Elective	3. Elective	3. Elective
4. Economics	4. Civics	4. Elective	4. Elective
5. Elective	5. Elective	5. Elective	5. Elective
6. Elective	6. Elective	6. Elective	6. Elective

Any course found on pages 13-37 may be inserted into these plans (pages that all courses are listed)

Arts and Communications

- Advanced Computers
- AP English Literature and Composition
- Art Foundations
- Band
- Beginning Journalism
- Choir/Ensemble/Chorale
- Creative Writing
- Culinary Arts
- Dance/Advanced Dance
- Drafting
- Drama 1&2
- Film Production
- Film Studies
- Graphic Arts 1&2
- Internet & Webpage Design
- Intro to Music Theory
- Jewelry/Painting
- Media Communication
- Photography
- Physical Education Classes
- PowerPoint/Publisher
- Stagecraft
- Theater Technology
- World Languages
- World Language and Cultures
- Yearbook

PROFESSIONAL PATHWAY			
GRADE 9		GRADE 10	
1. Freshman English	1. Freshman English	1. American Literature	1. American Literature
2. Algebra 1 or Geometry	2. Algebra 1 or Geometry	2. Geometry, Algebra 2 or Algebra 2A	2. Geometry, Algebra 2 or Algebra 2A
3. Biology	3. Biology	3. Chemistry	3. Chemistry
4. Wld. History & Geography or AP Wld. History (12 th)	4. Wld. History & Geography or AP Wld. History (12 th)	4. US History & Geography or AP US History	4. US History & Geography or AP US History
5. Computer Applications	5. Health	5. Personal Fitness or Dance	5. Elective or Dance
6. World Language	6. World Language	6. World Language	6. World Language
GRADE 11		GRADE 12	
1. Composition or AP Eng. Lang. & Comp.	1. British Lit or AP Eng. Lang. & Comp.	1. English Elective or AP Eng. Lit. & Comp	1. English Elective or AP Eng. Lit & Comp.
2. Algebra 2, Pre Calculus, Algebra 2A or 2B	2. Algebra 2, Pre Calculus, Algebra 2A or 2B	2. Pre Calc., AP Calculus, Math Related Course or Algebra 2B	2. Pre Calc., AP Calculus, Math Course, Elective or Algebra 2B
3. Physics or Science Elective	3. Physics or Science Elective	3. Science or Core Elective	3. Science or Core Elective
4. Economics or AP Macro Econ.	4. Civics or AP US Govt-Politics	4. Arts Elective	4. Arts Elective
5. Elective	5. Elective	5. Elective	5. Elective
6. Elective	6. Elective	6. Elective	6. Elective

Business, Management, Marketing and Technology

- Accounting
- Advanced Computer Applications
- Advanced Journalism
- AP English Literature & Composition
- AP Statistics
- Art Foundations
- Beginning Journalism
- CISCO
- Cooperative Training
- Digital Photography
- Finance Academy
- Internet and Webpage Design
- Law
- Marketing 1&2
- Office Technology
- Personal Finance
- PowerPoint/Publisher
- Psychology
- Social Problems
- Speech
- Web Design
- World Languages
- World Language & Cultures
- Yearbook

(CTE) CAREER PATHWAY			
GRADE 9		GRADE 10	
1. Freshman English	1. Freshman English	1. American Literature	1. American Literature
2. Algebra 1 or Geometry (Cpts)	2. Algebra 1 or Geometry (Cpts)	2. Geometry, Algebra 2 or Algebra 2A	2. Geometry, Algebra 2 or Algebra 2A
3. Biology (Cpts) or Biology	3. Biology (Cpts) or Biology	3. Biology (Cpts) or Chemistry (Cpts)	3. Biology (Cpts) or Chemistry (Cpts)
4. Wld. History & Geog. or AP Wld. History (11 or 12)	4. Wld. History & Geog. or AP Wld. History (11 or 12)	4. US History & Geography or AP US History	4. US History & Geography or AP US History
5. ** Computer Applications	5. ** Health	5. ** Arts Elective	5. ** Arts Elective
6. ** Personal Fitness or Dance	6. Elective	6. Elective	6. Elective
** Postpone or take these courses in summer school, zero/seventh hour or test out. This creates room for other Career Pathway courses.			
GRADE 11		GRADE 12	
1. Contemp. Lit., Composition, or AP Eng. Lang.	1. Contemp. Lit., British Literature, or AP Eng. Lang.	1. English Elective	1. English Elective
2. Algebra 2, Pre Calculus, Algebra 2A or 2B	2. Algebra 2, Pre Calculus, Algebra 2A or 2B	2. Pre Calc., AP Calculus, Math Related Course or Algebra 2B	2. Pre Calc., AP Calculus, Math Course, Elective, or Algebra 2B,
3. Chemistry (Cpts), Physics or Science Elective	3. Chemistry (Cpts), Physics or Science Elective	3. ** Postponed course or Elective	3. ** Postponed course or Elective
4. Economics or AP Macro Econ.	4. ** Civics or AP Government	4. ** Postponed course or Elective	4. ** Postponed course or Elective
5. Elective	5. Elective	5. Elective	5. Elective
6. Elective	6. Elective	6. Elective	6. Elective

Any course found on pages 13-37 may be inserted into these plans (pages that all courses are listed)

Engineering, Manufacturing and Industrial Technology

Advanced Computers
 AP Chemistry
 AP English Literature & Composition
 AP Physics B
 Art Foundations
 Auto Awareness
 Auto Fundamentals
 Aviation
 Cabinet/Furniture Making
 Drawing
 Construction Trades
 Cooperative Training
 Drafting
 Electronics
 Engineering & Computer Science
 Environmental Science
 Internet & Web Page Design
 Manufacturing Academy
 PowerPoint and Publisher
 Pre-Engineering/Infinity
 Probability and Statistics
 Trigonometry
 Vocational Auto
 Welding and Cutting
 Welding Fundamentals
 Woods
 World Languages
 World Language & Cultures

ADVANCED PLACEMENT			
GRADE 9		GRADE 10	
1. Freshman English	1. Freshman English	1. American Literature	1. American Literature
2. Geometry	2. Geometry	2. Algebra 2	2. Algebra 2
3. Biology	3. Biology	3. Chemistry	3. Chemistry
4. ** Personal Fitness or Dance	4. ** Elective or Dance	4. US History & Geography or AP US History	4. US History & Geography or AP US History
5. ** Computer Applications	5. **Health	5. Elective	5. Elective
6. World Language	6. World Language	6. World Language	6. World Language
** Postpone or take these courses in summer school, zero/seventh hour or test out. This creates room for other Career Pathway courses.			
GRADE 11		GRADE 12	
1. Composition or AP Eng. Lang. & Comp.	1. British Lit or AP Eng. Lang. & Comp.	1. AP Eng. Lit. & Comp or English Elective	1. AP Eng. Lit & Comp. or English Elective
2. Pre Calculus	2. Pre Calculus	2. AP Calc. AB or AP Statistics	2. AP Calc. AB or AP Statistics
3. Physics, AP Chemistry or AP Biology	3. Physics, AP Chemistry or AP Biology	3. AP Physics, AP Biology or AP Chemistry	3. AP Physics, AP Biology or AP Chemistry
4. Economics or AP Macro Econ.	4. ** Civics or AP US Govt-Politics	4. Arts Elective	4. Arts Elective
5. AP World History	5. AP World History	5. Elective or AP World Language	5. Elective or AP World Language
6. World Lang. or AP World Lang.	6. World Lang. or AP World Lang.	6. Elective	6. Elective

Health Sciences

Advanced Computer Applications
 AP Biology
 AP Chemistry
 AP English Literature & Composition
 AP Physics B
 Athletic Training/Sports Med
 Cooperative Training
 EMT
 Environmental Science
 Family Living
 Forensics
 Internet & Web Page Design
 Marketing 1&2
 Personal Finance
 Personal Living
 Pharmacy Technician
 Philosophy/Ethics
 Physical Education Classes
 PowerPoint and Publisher
 Pre-Veterinary
 Probability and Statistics
 Professional Health Academy
 Psychology
 Social Problems
 World Languages
 World Languages & Cultures

Lakeshore Public Schools . . . A Tradition In Excellence

MATH SCIENCE CENTER			
GRADE 9		GRADE 10	
1. AH Geometry	1. AH Geometry	1. AH Algebra 2	1. AH Algebra 2
2. AH Biology	2. AH Biology	2. AH Chemistry	2. AH Chemistry
3. AH Computer1	3. AH Computer1	3. AH Computer2	3. AH Computer2
4. Freshman English	4. Freshman English	4. American Literature	4. American Literature
5. World Language	5. World Language	5. Wld Language or Elective	5. Wld Language or Elective
6. Elective or ** Health	6. Elective or ** Pers. Fitness	6. AP US History or Elective	6. AP US History or Elective
** Postpone or take these courses in summer school, zero/seventh hour or test out. This creates room for other Career Pathway courses.			
GRADE 11		GRADE 12	
1. AH Pre Calculus	1. AH Pre Calculus	1. AP Calc. AB or AP Statistics	1. AP Calc. AB or AP Statistics
2. AH Physics	2. AH Physics	2. AP Biology, Physics or Chem	2. AP Biology, Physics or Chem
3. Composition or AP Eng. Lang.	3. Brit. Literature or AP Eng. Lang.	3. AP English Lit. & Composition	3. AP English Lit. & Composition
4. AP Chem., AP World or AP US History	4. AP Chem., AP World or AP US History	4. AP World History or Arts Elective	4. AP World History or Arts Elective
5. Economics or AP Macro Econ.	5. ** Civics or AP US Govt - Politics	5. Elective or Personal Fitness	5. Elective or Health
6. Elective	6. Elective	6. Elective	6. Elective

Any course found on pages 13-37 may be inserted into these plans (pages that all courses are listed)

Human Services

Advanced Computers
 Auto Awareness
 Child Development
 Cooperative Training
 Drama 1&2/Film Studies
 Cosmetology
 Family Living/Parenting
 Fire Fighting
 Forensics
 Internet & Web Page Design
 Law
 Law Enforcement Academy
 Personal Finance
 Physical Education
 Philosophy and Ethics
 PowerPoint and Publisher
 Probability/Statistics & Trigonometry
 Psychology
 Teacher Cadet
 World Languages
 World Language & Cultures

EXTENDED PROGRAM			
GRADE 9		GRADE 10	
1. Freshman English	1. Freshman English	1. American Literature	1. American Literature
2. Extended Program	2. Extended Program	2. Geometry or Geometry Cpts.	2. Geometry or Geometry Cpts.
3. Algebra 1	3. Algebra 1	3. Biology (Cpts) or Chemistry (Cpts)	3. Biology (Cpts) or Chemistry (Cpts)
4. World History and Geography	4. World History and Geography	4. US History & Geography	4. US History & Geography
5. ** Computer Applications(Lit)	5. ** Health	5. Postponed Computers, Personal Fitness or Elective	5. Postponed Health, Personal Fitness or Elective
6. Biology (Cpts) or Biology	6. Biology (Cpts) or Biology	6. Elective	6. Elective
** Postpone or take in Summer school, zero/seventh hour or testing out options.			
GRADE 11		GRADE 12	
1. Contemporary Literature/Writing	1. Contemporary Literature/Writing	1. English Elective	1. English Elective
2. Algebra 2 or Algebra 2A	2. Algebra 2 or Algebra 2A	2. Algebra 2B or Math Elective	2. Math Elective
3. Chemistry (Cpts) or Science Elective	3. Chemistry (Cpts) or Science Elective	3. Arts Elective	3. Arts Elective
4. Economics	4. Civics	4. Postponed Class or Elective	4. Elective
5. Elective	5. Elective	5. Elective	5. Elective
6. Elective	6. Elective	6. Elective	6. Elective

Natural Resources and Agriscience

Accounting
 Advanced Computer Applications
 Agriscience
 Auto Awareness
 Auto Fundamentals
 Forensics
 Internet Web Page Design
 Landscaping
 Law
 Marketing 1&2
 Personal Finance
 Physical Education
 PowerPoint and Publisher
 Pre-Veterinary
 Probability and Statistics
 Trigonometry
 Vocational Auto
 Welding and Cutting
 Welding Fundamentals
 World Languages
 World Language & Cultures

Business

The Business Department offers the following classes, which are designed to help students prepare for careers by teaching communication, business, and employability skills in a highly technical and competitive society.

Accounting 1

One semester, open to 11th & 12th

Prerequisite: None

This class is a must for students that are going to major or minor in a business degree! The course emphasizes a practical approach to the use of accounts, journals, ledgers, financial statements, and the accounting equation. Accounting 1 will give you a jump on students in your college accounting class that have not had an accounting class. This class is essential for students who seek employment in a small service or merchandising business, as well as an excellent preparation course for further study in the accounting world. *Accounting may count as a math related credit if the student is a senior.*

Accounting 2

One semester, open to 11th & 12th

Prerequisite: Accounting 1

This class will continue the accounting journey with emphasis on special journals and journal entries, merchandising business, payroll systems, and tax records. This class will be added help in college level accounting classes and business degrees. The class will also be helpful in small business opportunities and employment.

Law

One semester, open to 9th-12th

Prerequisite: None

The study of law at the secondary level is designed to develop students' understanding of the role and function of law in our society. It has personal, social, and employability value of importance to the students in their day to day activities. Included in the course are units on: Introduction to the Legal System, Criminal, Civil, and Juvenile Justice, and Consumer Law. Through the study of law, students should begin to understand and demonstrate the concepts of justice, tolerance, authority,

and responsibility. Students should also develop skills such as critical thinking, observation, and analysis.

Personal Finance

One semester, open to 11th–12th

Prerequisite: None

Enhance your financial success by acquiring knowledge of the financial world through this *Personal Finance* class. Students will discover new ways to maximize earnings potential, develop strategies for managing resources, develop skills for interviewing and job security, explore skills for wise use of credit, and gain insight into different investing opportunities. A very beneficial class for all students who require math skills to establish and maintain banking accounts, apply for loans, fill out required tax forms, attain employability skills, figure simple interest and annual percentage rates, and follow a budget. *Personal Finance may count as a 1/2 math related credit if the student is a senior.* Personal Finance is highly recommended as the work-related class for students in Co-op.

Office Technology & Procedures

Two semesters, open to 12th

Prerequisite: Computer Applications

The primary aim of the *Office Technology and Procedures* class is to aid students who are enrolled as office assistants. The class will have a scheduled meeting twice a month at 7:00 A.M. Students will reinforce their computer skills as well as learn office procedures such as: telephone and e-mail etiquette, correct formatting of letters, memos, reports, proofreading skills, and filing.

Marketing 1

Two semesters, open to 10th-12th

Prerequisite: None (*Seniors may enroll in second semester only, with teacher approval.*)

Students wishing to pursue a business degree in college should take this class. *Marketing 1* is an excellent introduction to business course covering topics such as: entrepreneurship, selling, international business, retail merchandising, general marketing management skills, advertising, and promotion. Students will participate in hands-on activities like operating the *Red Oasis* school store, making print and broadcast advertisements, and developing a business plan for an unknown product. A marketing class is required for students interested in DECA. This course also fulfills the *Visual & Performing Arts* graduation requirement. *Marketing may count as a math related credit if the student is a senior.* **Lake Michigan College will grant three credits for this course if all LMC prerequisites are completed.**

Marketing 2

Two semesters, open to 11th & 12th

Prerequisite: Marketing 1 (*Seniors may enroll in second semester only.*)

This course is designed for any second year marketing student who wishes to develop his/her business skills in the field of marketing and entrepreneurship. More emphasis will be placed on career planning and application projects. Project topics include: economic understanding, human relations, product knowledge, customer service, entrepreneurship, and promotion. A marketing class is required for students interested in DECA. *Marketing may count as a math related credit if the student is a senior.* **Lake Michigan College will grant credit for this course if all LMC prerequisites are complete.**

Business Continued . . .

Cooperative Training 1&2

One/two/three hour block

One Hr. of Credit = 5 hrs./wk.

Two Hrs. of Credit = 11 -14 hrs./wk.

Three Hrs. of Credit = 15 – 20 hrs./wk.

It is a state requirement that students take a related class.

One or two semesters, open to 12th

Prereq: Counselor/Coordinator approval

Earn while you learn -- the *Cooperative Training Program* is for those students who wish to gain practical experience in a specific work-related field. Paid work experience is provided for on-the-job training. Students must complete written agreements between the school and the employer. Students will also be required to complete time cards. Students **MUST** have a related class—a class that would give students on-the-job assistance. *(This supervised on-the-job training allows the participating student to attend school for part of the school day and to be released for the work schedule for the remainder of the school day.)*

Computer Science

In the information age, the ability to use computers is essential. The following courses are designed to improve computer knowledge and skills along with logical thinking. Keyboarding skills are strongly recommended for all computer classes.

**Business Services Technology 1
Computer Applications**

One semester, open to 9th-12th

Prerequisite: Keyboarding ability helpful

A variety of computer programs, including an online employability unit, will be introduced in *Computer Applications*. An introduction to technology skills will give students an opportunity to enhance their online experience and prepare them for the 21st century. The online component will address *online safety* and *search tips* along with current employability techniques.

Working knowledge of word processing, spreadsheet and database applications, along with correct formatting of letters, memos, and reports will be presented.

Computer Applications fulfills the graduation requirement for a 1/2 computer credit and online experience.

**Business Services Technology 3
Advanced Computer Applications**

One semester, open to 9th-12th

Prerequisite: BST 1 & 2

If you want to enhance and broaden the skills learned in *Computer Applications*, this class is for you. Additional knowledge of word processing, spreadsheets, charts, and database applications will be presented. An ideal course for college bound students and students entering the field of business!

Lake Michigan College will grant credit for this course if all LMC prerequisites are completed.

**Business Services Technology 2
Internet & Web Page Design**

One semester, open to 10th-12th

Prerequisite: BST 1

This course will concentrate on Macromedia Dreamweaver, FrontPage, and the hypertext markup language HTML. Students will learn to incorporate images and format text in a desirable, aesthetic fashion. This course will stress the proper use of design techniques and tactics to formulate exciting, cohesive websites designed to be both user friendly and attractive.

Students will also learn design concepts, copyright issues, and computer ethics. An ideal course for college bound students majoring in business, students entering the field of business or starting their own business after high school. **Lake Michigan College will grant credit for this course if all LMC prerequisites are completed.**

**Business Services Technology 4
PowerPoint/Publisher**

One semester, open to 10th-12th

Prerequisite: BST 1, 2, & 3

Express yourself through the use of a PowerPoint presentation. Create announcements, cards, newsletters, logos, signs, forms, and brochures via desktop publishing. Microsoft Publisher is a powerful desktop publishing program that assists in designing and producing professional quality documents that combine text, graphics, illustrations, and photographs. PowerPoint is a powerful but easy to use presentation graphic program used to create professional quality slide presentations. **Lake Michigan College will grant credit for this course if all LMC prerequisites are completed.**

English Department

All students must earn three specific credits and one elective credit of English to graduate. This requirement will prepare students to meet the Michigan Merit Curriculum requirements and most college and university entrance requirements in English.

Required sequence for all students:

Year 1: Freshman English

Year 2: American Literature

Year 3: Choose one option; no combinations

- 1) Contemporary Literature and Writing
- 2) British Literature and Composition
- 3) AP Language and Composition

Year 4: One elective credit of English (Students not selecting British Literature and Composition the junior year are encouraged to take these courses as English electives.)

Freshman English

Two semesters, open to 9th

Prerequisite: None

This survey course is designed to review language usage skills, teach study skills, and study all genres of literature. Writing is emphasized throughout the course.

American Literature

Two semesters, open to 10th

Prerequisite: Freshman English

This course expands the writing, reading, and thinking skills of Freshman English. Writing skills are coordinated with the study of the development of *American Literature*.

Contemporary Literature & Writing

Two semesters, open to 11th

Prerequisite: American Literature

This class studies contemporary literature and literary themes. Students read works from modern literature as well as works on the most recommended book list of contemporary literature. Emphasis is on the way the literature reflects modern culture. Additionally, the course addresses those writing skills needed in college as well as in everyday life, from journal writing to research. Two major research projects are required. Will include some *Michigan Merit Exam* preparation.

Research & Composition

One semester, open to 11th and 12th

Prerequisite: American Literature

This semester course is designed to help students develop college-level writing skills. Various writing styles and techniques are studied and practiced, including the formal research paper. Individual improvement is emphasized. This course is strongly recommended for college-bound students.

British Literature

One semester, open to 11th and 12th

Prerequisite: American Literature

This course presents a comprehensive study of the development of British Literature from the Anglo-Saxon period to the Twentieth Century. The student will explore various literary forms, techniques, movements, and influences of major British authors. Critical thinking and analytical skills are emphasized. This course is strongly recommended for college bound students. Will include some *Michigan Merit Exam* preparation.

AP Language & Composition

Two semesters, open to 11th & 12th

Prerequisite: Summer reading required.

An AP Course in English Language and Composition engages students in becoming skilled readers of prose written in a variety of periods, disciplines, and rhetorical contexts and in becoming skilled writers who compose for a variety of purposes. The course objective is to enable students to read complex texts with understanding and to write prose of sufficient richness and complexity to communicate effectively with mature readers. This course is intended to prepare students for the AP Language and Composition exam in May. All other students should take British Literature and Composition or Contemporary Literature.

AP Literature & Composition

Two semesters, open to 12th

Prerequisite: Summer reading required.

This course is intended to prepare students for the AP Literature and Composition exam in May as well as preparing them for humanities courses in college. Emphasis is on a critical approach to a survey of literature from ancient cultures through modern literature. Summer reading is a component of the course. This class is for students taking the AP exam. All other students should take World Literature or another English elective.

English Electives

The following elective English courses are recommended for students who have taken or are currently taking the required English sequence or want more than four years of English. (*Students not selecting British Literature and Composition the junior year are encouraged to take these courses as English electives.*)

World Literature

One or two semesters, open to 12th
Prerequisite: None
This course is designed for the student who wishes to increase his/her knowledge of literature and composition. The course surveys world literature as a basis for discussion of universal issues and literary forms, with an emphasis on written evaluation of material studied. Critical and analytical thinking skills will be emphasized in discussion and written analyses. Students will increase their ability to write in a variety of forms including essay, comparison/contrast, and literary analysis.

Speech

One semester, open to 10th-12th
Prerequisite: None
The student studies the role of speech-making in modern society, the act of speaking, the speaking environment, and the forms of speech. The student is actively involved in delivering speeches under a variety of circumstances. Highly recommended for all students.

Creative Writing

One semester, open to 10th -12th
Prerequisite: None
This course will focus on various forms of writing, including short stories, poetry, drama, and non-fiction. The student will maintain a writing portfolio of work and evaluation and will experience writing for different purposes and audiences.

Beginning Journalism

One semester, open to 9th-12th
Prerequisite: None
This one-semester course teaches principles of newspaper work, photojournalism, and desktop publishing. Students explore differences between writing for the newspaper and other types of writing. Types of

journalistic writing include: news, feature, sports, and editorial. Students meet several deadlines throughout the course. One issue of a newspaper is produced in this course.

Advanced Journalism

Two semesters, open to 10th-12th
Prerequisite: Beginning Journalism
This year-long course provides practical application of the principles of newspaper work and journalistic writing introduced in Beginning Journalism. Students develop greater competency in writing news, feature, editorial, and sports articles and in desktop publishing. Students maintain a writing portfolio, sell advertisements, and meet several deadlines throughout the course. The school newspaper, *The Drifter*, is produced in the class. This course may be repeated with instructor approval.

English On Demand!

One semester, open to 11th
Prerequisite: Teacher recommendation
This ACT preparation class is a 1/2 credit course that targets pre-identified students for success on the *Michigan Merit Exam*. This class will include four full-length ACT English practice tests spread out over the semester. It will also include a variety of short readings and essays from *Models for Writers*, with a concentration on critical response and test question creation. Techniques from *Writing on Demand* will assist students in addressing ACT-style prompts. Routine use of ACT-sanctioned test preparation programs such as *KeyTrain* will better prepare students for true-life, high-stakes testing (MME). Particular attention will be paid to test-taking strategies from the *Princeton Review*, in conjunction with methods to combat test anxiety.

Fine, Performing & Visual Arts

Drama 1

(Acting)
One semester, open to 9th-12th
Prerequisite: None
This course focuses on acting. This class will help students to overcome stage fright as well as sharpen their creativity and acting skills. Students will participate in a variety of activities and exercises involving pantomime, voice, and improvisation. The majority of class time is spent rehearsing and performing short scenes and monologues that culminate in a final performance.

Drama 2

(Playwriting and Directing)
One semester, open to 9th-12th
Prerequisite: None
Each student will be required to write, direct, and also act in a one-act play. The majority of time spent in this class will be dedicated to writing and rehearsing. The class will culminate in producing several one act plays that will be performed in front of an audience.

Film Production

One semester, open to 10th-12th
Prerequisite: None
Students will learn how to make their own short films and videos. The class will cover such aspects as handling the video camera, downloading footage, and editing film to convey a desired emotion and/or meaning. This class may be repeated for credit and no experience is necessary.

Film Studies

One semester, open to 11th, 12th
Prerequisite: None
Students will learn about film as an art form and analyze a variety of films and themes that have stood the test of time. The class will focus on influential directors, cinematic elements, and genre. Class discussions will require students to think beyond what is on the surface and uncover a deeper meaning based on the structure and style of each director and film.

Fine, Performing & Visual Arts

Stagecraft

Two semesters, open to 9th–12th

This course is offered to students interested in learning about the technical aspects of theatre. Stagecraft introduces basic terminology, rigging, lighting, sound, construction techniques, and history of theatre architecture, as well as practical experience setting the auditorium for performances. The second semester emphasizes basic stagecraft with design and stage management techniques. May be repeated with instructor approval.

Theater Technology

Two hour block.

Two semesters, open to 11th & 12th

Prerequisite: None

The course provides practical, hands-on experiences in technical theater, including set design and construction, rigging, lighting, and sound. Technical work on department productions is required. Guest artists will be used throughout the year to expose students to the various careers in technical theater. Students will have the opportunity to attend professional theater productions in the surrounding area. **Lake Michigan College may grant college credit for this course.**

Art Foundations

One semester, open to 9th–12th

Prerequisite: None

This course forms the foundation of all art studies at Lakeshore High School. Students will study the elements and principles of design and apply them in the creation of two-dimensional and three-dimensional works of art. Students will be introduced to a variety of media and materials through drawing, painting, jewelry making, ceramics, and photography. A variety of subjects and art styles will be explored. Example: portraits, landscapes, still life, as well as surrealism, Pop art, and expressionism.

Ceramics

One semester, open to 9th–12th

Prerequisite: Art Foundations or a senior

This course is an introduction to 3-D design as well as the materials, techniques, and equipment of hand-built and wheel-thrown ceramic art. The course focuses on developing ceramics skills, creativity, aesthetics, and the use of clay as a medium of personal expression. We will explore decorative elements through painting and glazing techniques.

Drawing

One semester, open to 9th–12th

Prerequisite: Art Foundations, or a senior, 8th grade Graphic Design

This course is designed for students who are interested in exploring two-dimensional design. In this course students will be introduced to drawing techniques and processes. Based on the elements and principles of art as a foundation, students will use a variety of subject matter such as album cover, surreal portrait, and fantasy character design to create drawings. Drawings will be created with various forms of media including pencil, colored pencil, charcoal, and pen and ink. Students will be encouraged to develop their own individual style to express themselves.

Painting

One semester, open to 9th–12th

Prerequisite: Art Foundations or a senior
Painting is designed for students who are interested in exploring and expanding upon paint as an art medium. Using the elements and principles of art as a foundation, students will use ink, tempera, gouache, watercolor, acrylic and oil paint to create seascapes, portraits, abstract designs, and other subjects. An in-depth study of painting history, color theory, composition, and painting techniques will be explored. Students will be encouraged to develop individual painting styles.

Jewelry

One semester, open to 9th–12th

Prerequisite: Art Foundations or a senior

Jewelry is designed for students interested in learning about a variety of jewelry making tools, materials, and techniques. Students will use a variety of material such as: sheet metal, wire, glass, hemp, glass beads, clay, and sheet glass to create a variety of jewelry pieces. In the class, students will explore the history of jewelry making. This course may require a \$20 material fee for special projects.

Digital Photography

One semester, open to 10th–12th

Prerequisite: Art Foundations or a senior

This course is designed for students who are interested in exploring photography from a technical and art form of media. Using the elements and principles of art as a foundation, students will learn camera history, function, composition, aesthetics, and digital photography media. Students will use the world around them to find meaning and creativity to express themselves. Students are encouraged to use their own camera.

Advanced Art

One semester, open to 11th – 12th

This course may be repeated for credit with teacher permission.

Prerequisite: Must have successfully completed all other art classes with a “B” or better.

Advanced Art is designed for the student who is motivated in art and wishes to explore and expand his/her knowledge in a wide variety of media and processes. Specific course requirements will be designed to build upon present skills. Areas of concentration will be tailored to the student’s special art interests.

Fine, Performing & Visual Arts

Continued . . .

Band

Two semesters, open to 9th-12th

Prerequisite: Previous continued enrollment and/or consent of director

During the first semester, all students will participate in the Lancer Marching Band. Participation at ALL home football games, Pre-school Band Camp, District Marching Festival, marching competitions, after school rehearsals, and any other scheduled activities is required. It is understood that a great deal of commitment, dedication, and desire is needed as well as musical ability. During the winter and spring, the band divides into the Symphonic and Concert Band on the basis of auditions. Opportunities for many types of musical performance (Jazz, Marching, Concert, Pep) are available and encouraged. Members are eligible to participate in all events sponsored by the Michigan School Band and Orchestra Association.

Introduction to Music Theory

One hour block.

Two semesters, open to 11th & 12th

Prerequisite: Previous band or choir experience or consent of the teacher

This course is designed for the high school student wishing to learn the fundamentals of music and/or college preparatory music majors/minors. The course will include study in music notation, keyboard, sight-reading, ear-training, chromatics, elements of rhythm and melody, composition, scales, intervals, and chords. This course will provide the students with a solid musical foundation. **Lake Michigan College will grant credit for this course.**

Bella Voci (Women's Ensemble)

Two semesters, open to 9th – 12th

Prerequisite: Audition and previous continuous enrollment and/or consent of director

Bella Voci is an auditioned choir comprised of freshmen through senior women with past singing experience, a demonstrated ability to sight-sing at an intermediate level, and an attitude toward singing

with choral excellence. In addition to performing three and four-part treble choir literature, this ensemble will also study more in-depth techniques for beautiful singing, music theory, and performance skills. Students will be expected to participate in four concerts throughout the school year, participate in District and State Choral Festivals, singing workshops, and community events. Additional training and performing opportunities will be available to students through activities sponsored by the Michigan Vocal Music Association and the American Choral Directors Association.

Concert Choir (Mixed Ensemble)

Two semesters, open to 9th – 12th

Prerequisite: None

Concert Choir is a non-auditioned mix choir of men and women with or without past singing experience. This class is designed to fit the needs of students interested in vocal music who demonstrate an attitude toward singing with choral excellence. Daily rehearsals will include the study of singing technique, sight-singing, music theory, and performance habits. Students will be expected to participate in four concerts throughout the school year, as well as participate in District and State Choral Festivals. Additional training and performing opportunities will be available to students through activities sponsored by the Michigan Vocal Music Association and the American Choral Directors Association.

Chorale (KnightLife)

Two semesters, open to 9th – 12th

Prerequisite: Audition and previous continuous enrollment and/or consent of director

Chorale is an auditioned choir comprised of freshmen through senior men and women with past singing experience, a demonstrated ability to sight-sing at an advanced level, and an attitude toward singing with choral excellence. This

ensemble will study and perform a broad range of vocal music styles, including concert music and vocal jazz. Students will also study more in-depth techniques for beautiful singing in a variety of style settings, music theory concepts, and performance practices. Students will be expected to participate in four concerts throughout the school year, participate in District and State Choral Festivals, vocal jazz workshops, chamber singing workshops, and community events. The performance schedule for this group will be considerable in order to meet the needs of school, community, and educational requests. Additional training and performing opportunities will be available to students through activities sponsored by the Michigan Vocal Music Association and the American Choral Directors Association.

Dance

One or two hour block, open to 9 - 12th

Prerequisite: None

This year long course is offered to Berrien County High School students in grades 9-12. The beginning level course will introduce students to the many facets of dance including: Modern, Jazz, Ballet, and World Dance. Study in health and nutrition, and beginning choreography will also be included. The instructors have both professional teaching and performing experience. Guest artists will be used throughout the year to expose students to various professionals working in the field. As a part of this course, students will be required to dance in fall and spring performances. After school and evening attendance is required for program preparation. It is requested that students purchase their own dance shoes. *Two semesters of Dance will meet the personal fitness graduation requirement.*

Intermediate Dance

One hour block, open 9th – 12th

Prerequisite: Audition or teacher approval

Fine, Performing & Visual Arts

Continued . . .

Intermediate Dance is for students who have a beginning to intermediate level of dance or who have formal training from the beginning level course *Dance*, or from an outside studio. This class is also designed for students who do not have time in their schedule for the two hour block of *Advanced Dance*. Like *Dance*, and *Advanced Dance*, students have the opportunity to develop and improve strength, flexibility, coordination, accuracy of movement, leadership, social skills, self-confidence, performing experience, and overall -- an appreciation of dance. Students will be challenged to prepare for the advanced level class, to continue learning more advanced steps, and executing movement with more proper technique. They will explore a variety of different movement styles and techniques, along with learning movement vocabulary, dance history, elements of composition, and anatomical alignment. As dance students, participation in community performances and rehearsals will be required.

Advanced Dance

Two hour block. Two semesters, open to 11th & 12th. Prerequisite: Audition or teacher approval

The *Advanced Dance* class is also designed to improve strength and flexibility, accuracy of movement, leadership and social skills, self-confidence, experience performing, and an appreciation of dance. We further study the skeletal alignment of the dancer's body placement and are working to enhance proper execution of movement with a more mature quality. Students in this class already have the mechanics of dance and are challenged to develop their technique on a more experienced level. Along with studying the same variety of dance technique, this class will also learn the history of dance and nutrition; in addition, there is a more in-depth study in choreography, more experience performing, and the opportunity to take part in organizing a dance production.

Life Management

Family Living

One semester, open to 9th – 12th

Prerequisite: None

Family Living includes the study of developing individual values, growth toward maturity, functioning as members of present and future families, preparation for marriage, and the family's place in the community. Emphasis is placed on creativity as well as efficient use of resources available to the individual.

Personal Living

One semester, open to 9th – 12th

Prerequisite: None

Emphasis for this course is placed on the individual and his or her relationship with others. Basic human needs are discussed including psychological as well as physiological needs. The student will study the need for the expression of love, affection and belonging, development of interpersonal skills, behavior modification, appropriate use of assertiveness, eliminating sex role stereotyping, dealing with stress, conflict, abuse, and practicing problem-solving techniques. *Personal Living* allows the student to obtain self knowledge and to practice the skills necessary for a successful and responsible life.

Parenting

One semester, open to 9th – 12th

Prerequisite: None

This course includes: parenthood as an informed choice, realities of parenthood, physical, social, financial and career adjustments of parenthood. Also included are: the selection of day care settings, toys and television programs, adjustments of a single parent and/or a stepparent. The general theme is that parenting skills can be learned. Through positive

experiences with children, students will begin to develop basic skills and attitudes needed to become a responsible and caring parent.

Child Development

One semester, open to 9th – 12th

Prerequisite: None

Strongly recommended for students interested in becoming teachers. Students will be introduced to a wide range of topics designed to help them learn about the growth, development, and care of children. Included in this course will be: identification of child development theories, physical, emotional, social, and intellectual growth of children, the qualities needed for working with children, and career experiences related to working with children. Emphasis in this course will be to provide students with a combination of background knowledge about child development along with a hands-on experience of dealing with children in an educational setting.

Life Management Skills

One semester, open to 9th – 12th

Prerequisite: Family Living suggested

Life Management Skills takes the multitude of concepts that are offered in the school curriculum and incorporates these concepts into a "real-life" situation where students practice making decisions and applying these skills to a "real" lifestyle. Students deal with issues, problems, or concerns that are typically common to that lifestyle. Emphasis in the course is preparing the student for life after graduation.

Mathematics

All classes must complete four years of math; one credit of Algebra, one credit of Geometry, one Algebra 2 course, and one math credit or math related course must be taken in the senior year in order to meet the Michigan Merit Curriculum (MMC) requirement. Teachers will recommend courses for students based on performance in previous classes.

MATH DEPARTMENT SEQUENCE

Course placement will be determined by the math department.

Year 1: Algebra 1, Geometry or AH Geometry

Year 2: Geometry Concepts, Geometry, Algebra 2, or AH Algebra 2

Year 3: Algebra 2A, Algebra 2, Pre Calculus, or AH Pre Calculus

Year 4: Algebra 2B, Pre Calculus, Probability/Statistics, Trigonometry, AP Calculus AB, AP Statistics, Career Math, or Personal Finance. One math credit or math related course must be taken in the senior year in order to meet the MMC requirement.

Algebra 1

Two semesters

Prerequisite: teacher approval

This is a required course with an emphasis on formulas, first and second degree equations, and graphs and word applications. Other topics include: exponential functions, radicals, inequalities, and rational expressions.

Geometry Concepts

Two semesters, teacher approval

Prerequisite: Algebra 1

This course is related to geometry although its pace is such as to accommodate students possessing less theoretical understanding than those taking geometry.

Geometry

Two semesters, teacher approval

Prerequisite: Algebra 1

Geometry is the study of the methods of mathematical reasoning using the physical world as a model. Relationships between straight and curved lines, planes, and both flat and solid shapes are studied.

Algebra 2A

Two semesters, teacher approval

Prerequisite: Geometry Concepts or Geometry

This is an Algebra 2 course for those students who would normally have difficulty with the standard Algebra 2 course. The same topics for first

semester of Algebra 2 are covered at a reduced pace. Topics include: linear functions, inequalities, quadratics, and polynomial and rational expressions.

Algebra 2B

One semester, teacher approval

Prerequisite: Algebra 2A

This is an Algebra 2 course for students who would normally have difficulty with the standard Algebra 2 course. This is the equivalent of second semester of Algebra 2, but topics are covered at a reduced pace. Topics include: linear functions and equations, inequalities, quadratics, polynomial and rational expressions, exponential and logarithmic functions, conics, trigonometry, and probability and statistics.

Algebra 2

Two semesters, teacher approval

Prerequisite: Geometry

This course is an extension of Algebra 1, followed by the treatment of new topics, including: linear functions and equations, inequalities, quadratics, polynomial and rational expressions, exponential and logarithmic functions, conics, trigonometry, and probability and statistics.

Personal Finance

One Semester, open to 11th – 12th

Enhance your financial success by acquiring knowledge of the financial world through the class, *Personal Finance*.

Students will discover new ways to maximize earnings potential, develop strategies for managing resources, develop skills for interviewing and job security, explore skills for wise use of credit, and gain insight into different investing opportunities. A very beneficial class for all students who require math skills to establish and maintain banking accounts, apply for loans, fill out required tax forms, attain employability skills, figure simple interest and annual percentages rates, and follow a budget. *Personal Finance may count as a 1/2 math credit or math related credit. Personal Finance* is highly recommended as the work-related class for students in Co-op.

Probability & Statistics

One semester, teacher approval

Prerequisite: Algebra 2 or Algebra 2A

The student will analyze and manage data as well as develop the insight and skills that are needed to confront our data-oriented society. The concepts of probability and statistics are applied to a variety of subject areas, which will motivate the student by showing how concepts are covered and applied to real-life situations.

Trigonometry

One semester, teacher approval

Prerequisite: Algebra 2 or Algebra 2A

Emphasis is placed on applications of trigonometry to actual situations. Topics covered are: numerical trigonometry, identities, and graphs of trigonometric functions. Highly recommended for students interested in the trades and apprenticeship.

Pre Calculus

Two semesters, teacher approval

Prerequisite: Algebra 2

This course is intended for the serious math student. It is designed to prepare

Mathematics

Continued . . .

the student for calculus by studying functions, limits, trigonometry, and analytical geometry.

AP Calculus AB

Two semesters, teacher approval

Prerequisite: Pre Calculus

A course in introductory calculus, including functions, limits, derivatives and integrals, with applications to physical problems. This course prepares students to take the AP Calculus AB test in May.

AP Statistics

Two semesters, teacher approval

Prerequisite: PreCalculus

This course encompasses four major themes: (1) Exploratory analysis of data using graphical and numerical techniques to study patterns and departures from patterns. (2) Data collection according to well-developed plans if valid information on a conjecture is to be obtained. (3) Using probability as a tool for anticipating what the distribution of data should look like under a given model. (4) Using statistical inferences to guide the selection of appropriate models. A graphing calculator will be used as the major technology tool.

Career Math

One or two semesters, teacher approval

Prerequisites: Algebra 1 and Geometry

This course may be taken in conjunction with another math requirement or at the completion of Algebra 2. First semester topics to be studied include: computational skills, measurement skills, percent problems, right triangle measures, basic statistics, and graphics. Second semester integrates consumer math skills related to career pathways. Calculators will be studied and used as a tool in problem solving and practical applications of whole numbers, decimals, and percents.

Mathematics & Science Center

The *Lakeshore Mathematics and Science Center* operates a four-year program that provides special opportunities and course work to students with aptitude and interest in science and mathematics. In addition to the participation of Lakeshore students, the Math/Science Center is also open to students from other area schools.

Admission

Students apply to the Center no later than March of their 8th grade year.

Applications will be reviewed by a district selection committee. Admission to the Center is based on student responses to written portions of the application, teacher recommendations, grades, and SAT scores. Students must have satisfactorily completed Algebra.

Four Year Course Plan

Freshman Year

Advanced Honors Integrated Geometry

Advanced Honors Research Biology

Advanced Honors Computer Science

Sophomore Year

Advanced Honors Integrated Algebra

Advanced Honors Analytical Chemistry

Advanced Honors Computer Science

Advanced Honors

Integrated Geometry

(AH GEOM), Grade 9

This project oriented course provides a rich, rigorous foundation in geometry uniquely blended with statistics, problem-based learning, cooperative projects, and further work in algebra. Problem solving and technology including computers and graphing calculators are integrated into each of these topics.

Advanced Honors

Integrated Algebra 2

(AH ALG), Grade 10

The major component of this course is advanced topics in algebra. The students continue the study of probability/statistics including probability distribution and linear regression. The course integrates geometry, algebra, statistics, discrete mathematics, polynomial functions, and problem solving with the use of graphing calculators, and projects.

Junior Year

Advanced Honors Pre-Calculus

Advanced Honors Contemporary

Physics

Senior Year

Math Choice:

AP Calculus AB or AP Statistics

Science Choice:

AP Biology or AP Chemistry or AP

Physics B

Advanced Honors

Pre-Calculus

(AH PreCAL), Grade 11

The course topics include college algebra, advanced trigonometry, and analytic geometry of two and three dimensions. Students experience a thorough analysis of all elementary functions and curve-sketching. Selected discrete mathematics topics including normal probability distributions and testing hypotheses are explored. Practice with proofs such as mathematical induction are included. Experiences with computer software and graphing calculators are incorporated. Math research papers are assigned to bridge conceptual and technical concepts.

(Continued next page . . .)

Mathematics & Science Center

A general brochure, application packet, course descriptions, and other information are available from the counselor's office.

AP Statistics

(AP STATS), Grade 12

The course encompasses four major themes: (1) Exploratory analysis of data using graphical and numerical techniques to study patterns and departures from patterns. (2) Data collection according to well-developed plans if valid information on a conjecture is to be obtained. (3) Using probability as a tool for anticipating what the distribution of data should look like under a given model. (4) Using statistical inferences to guide the selection of appropriate models. A graphing calculator will be used as the major technology tool.

AP Calculus AB

(AP CAL), Grade 12

The *Advanced Placement Calculus AB* course follows the Advanced Placement syllabus and prepares students to take the AP test in May. Course study will include properties of functions, limits, differential calculus, and integral calculus.

Advanced Honors Research Biology

(AH BIO), Grade 9

Topics include cell biology, genetics, structure and function of plant and animal kingdoms, comparative anatomy and physiology, and ecology/environmental studies. An interdisciplinary approach combines meaningful field and laboratory experiences to develop the student's ability to recognize and solve scientific problems. Hands-on time with sophisticated instrumentation and procedural techniques culminate in a research project.

Advanced Honors

Analytical Chemistry

(AH CHEM), Grade 10

This course is the study of the composition of substances. The course includes a broad range of chemical concepts producing a well-balanced preparation for college classes. Classroom instruction is integrated with meaningful laboratory experiences in order to develop each student's knowledge of analytical chemistry itself.

Advanced Honors

Contemporary Physics

(AH PHY), Grade 11

This course emphasizes the fundamental laws of physics and the many applications to the physical world. Students study classical mechanics, thermal physics, relativity, electricity and magnetism, nuclear physics, light, waves, and quantum physics. Demonstrations and laboratory experiences are important components of the course with much of the experimental data obtained by computer-controlled data acquisition and graphical analysis.

AP Biology

(AP Biology), Grade 12

Prerequisite: Chemistry

The course will follow the AP course outline, with extended laboratory and field research work. Project work and independent reading assignments are required. Discussion and laboratory emphasis will be placed on ecology, cellular and molecular biology, genetics, and biotechnology, evolution, microbiology, botany, and zoology. The course prepares students to take the AP Biology test in May.

AP Chemistry

(AP Chemistry), Grade 12

This course will reaffirm, expand, and build upon the students' understanding of the theories and operations of general inorganic chemistry. Topics will include such things as: colligative properties, rates of reaction, equilibrium, and thermodynamics. The course prepares students to take the AP Chemistry test in May.

AP Physics B

(AP Physics), Grade 12

This course will follow the same curriculum as the first two semesters of a non-calculus based college physics course. The course is to prepare students for the AP Physics B test in May.

Advanced Honors

Computer Science 1

(AH ComSci), Grade 9

This course introduces the student to the computer as a tool for writing and studying. Basic knowledge of how computers work and of common computer terminology, including the understanding of the various applications of computers is included. Students are assigned projects which demonstrate the use of computers in problem solving and research. Time management and study skills are incorporated.

Advanced Honors

Computer Science 2

(AH ComSci), Grade 10

The second year of computer class emphasizes computer problem solving using structured design and programming methodologies. Students learn to approach problems systematically and approach solutions using well-known techniques of proven effectiveness. Student groups complete a major programming project by the end of the course.

Physical Education & Health

Note: Personal Fitness is a required course but is not a PREREQUISITE for any of the elective courses. Any of the elective courses may be repeated for credit. No more than one physical education class may be taken per semester.

Health

One semester, open to 9th-12th

Prerequisite: None

This required course emphasizes a positive approach to personal health. Students explore their own health behavior and what constitutes good health and responsible decision-making. Topics covered in this 18 week course include mental and emotional health, stress management, nutrition, substance use and abuse, disease, communicable disease, and reproductive health.

Personal Fitness

One semester, open to 9th-12th

Prerequisite: None

This course is required for graduation and is designed to teach students how to work out a lifetime fitness program that fits their needs and interests. Students will evaluate their current level of fitness and work toward increased cardiovascular endurance, muscular endurance, strength, flexibility, and improved body composition. Seasonal sports will be used to promote these disciplines.

Fitness for Life

One semester, open to 9th-12th

Prerequisite: Teacher recommendation

This course is designed to teach students to decrease their percentage of body fat with an emphasis on healthy eating and increased activity levels. It is recommended that students within 10 pounds of their ideal weight not select this class. *Fitness for Life* may be substituted for *Personal Fitness* to meet the graduation requirement (may be repeated for credit).

Weight Training

One semester, open to 9th – 12th

Prerequisite: None

This course is designed to teach students the principles of weight training as a part of their personal fitness regimen.

Two training options are available for this course: *Strength* or *Power* weight training. *Strength* training is designed to increase muscle strength and endurance to enhance personal and athletic performance. Students will work at their own levels and toward personal weight lifting and conditioning goals. *Power* weight training is largely driven by competitive weight lifting to lose a greater amount of weight and gain muscle mass through rigorous conditioning techniques. Students will follow a group plan to build muscle strength for personal and athletic performance (may be repeated for credit).

Lifetime Sports 1

One semester, open to 10th, 11th, 12th

Prerequisite: None

This course is designed to promote fitness through sports that can be done throughout life. *Lifetime Sports 1* activities will include tennis, golf, biking, badminton, volleyball, basketball, and other fitness activities. Due to the nature of this course, some of the activities require a fee, transportation to and from facilities, and bringing equipment from home (may be repeated for credit).

Lifetime Sports 2

One semester, open to 10th, 11th, 12th

Prerequisite: None

This course is designed to promote fitness through sports that can be done throughout life. Activities will include bowling, pickleball, rollerblading, softball, ultimate frisbee, and other

fitness activities. Due to the nature of this course some of the activities require a fee, transportation to and from facilities, and bringing equipment from home (may be repeated for credit).

Team Sports 1

One semester, open to 10th, 11th, 12th

Prerequisite: None

This course is designed to promote fitness through team sports. All activities will be modified to facilitate equalized competition on a coeducational basis.

Team Sports 1 will include soccer, basketball, volleyball, touch football, and floor hockey (may be repeated for credit).

Team Sports 2

One semester, open to 10th, 11th, 12th

Prerequisite: None

This course is designed to promote fitness through team sports. All activities will be modified to facilitate equalized competition on a coeducational basis.

Team Sports 2 will include basketball, team handball, volleyball, and softball (may be repeated for credit).

Advanced Physical Education

One semester, open to 10th, 11th, 12th male and female athletes playing a varsity or junior varsity sport

This course will benefit the athletes while in school as well as teach them proper training techniques for lifetime activities. It is designed to develop the skills necessary for athletic participation at Lakeshore. There will be a strong emphasis on strength and flexibility training along with the other components of fitness. The athletes are measured and charted throughout the year to monitor development (may be repeated for credit).

Science

It is strongly recommended all students complete three to four years of science to best prepare themselves for college.

SCIENCE DEPARTMENT SEQUENCE

Year 1: Biology Concepts, Biology, or AH Biology

Year 2: Chemistry, Chemistry Concepts or AH Chemistry

Year 3: Applied Physics, Physics, AH Physics, any AP Science Elective, or Anatomy & Physiology.

Year 4: Environmental Science, Forensics, Anatomy/Physiology or AP Science Elective

Biology Concepts

Two semesters, open to 9th

Prerequisite: Teacher recommendation

This course is specifically designed for students who may have difficulty with the traditional *Biology* course. The course covers the same topics as *Biology* however is conducted at a slower pace. It is recommended after successful completion of this course, required for the class of 2010, a student enroll in *Chemistry Concepts*. This course meets the *Biology* graduation requirement.

Biology

Two semesters, open to 9th - 12th

Prerequisite: Teacher recommendation

The purpose of biology is to acquaint the student with the living world around him/her. Topics addressed in this course will be ecology, energy usage in cells, viruses, genetics, evolution, plants, and the human body. The written material is reinforced by laboratory work and experimentation.

Chemistry Concepts

Two semesters, open to 10th

Prerequisite: Teacher recommendation

Chemistry Concepts is a class designed to provide students with a conceptual framework of chemistry using real world examples and lab based instruction. This class is available for students by teacher recommendation only. *Chemistry Concepts* meets the graduation requirement for chemistry or physics.

Chemistry

Two semesters, open to 10th, 11th, 12th

Prerequisite: Teacher approval

Chemistry is a course designed to study the structure and behavior of atoms. Students will accumulate scientific knowledge by laboratory experimentation. Recording and interpreting experimental results in a consistent way is stressed as a learning process. Specific areas of study beyond atoms are: stoichiometry, nuclear chemistry, and chemical dynamics.

AP Chemistry

Two semesters, open to 11th, 12th

Prerequisite: Teacher approval

This course is designed for the college bound student entering into the science areas (engineering, medicine, science teaching, science majors, etc.). The course will review, reaffirm, and expand the students' understanding of the theories and operations of college chemistry. Topics will include such things as: colligative properties, rates of reaction, equilibriums, and thermodynamics. This course prepares students to take the AP Chemistry test in May.

Physics

Two semesters, open to 11th – 12th

Prerequisite: Teacher approval

This course concerns the worlds of heat, sound, light, mechanics, and electricity. Problem solving and qualitative ideas are stressed. The student will also learn by experimenting, recording, and analyzing experimental data in a consistent way.

Applied Physics

Two semesters, open to 11th, 12th

Prerequisite: Teacher recommendation

Applied Physics is a class designed to provide students with a conceptual framework of physics using real world examples and lab based instruction. This class is available for students by teacher recommendation only. This course can count as the third science credit required for graduation.

AP Physics B

Two semesters, open to 12th

Prerequisite: "B" average in Physics or recommendation from the Physic's teacher

This college level course is designed for the college bound student interested in engineering, medicine, physical therapy, or a major in science. The course will follow the same curriculum as a first two semester of a non-calculus based college physics course. The course is to prepare students for the AP Physics B test taken in May.

AP Biology

Two semesters, open to 11th, 12th

Prerequisite: "B" average or better in Biology; Chemistry or be currently enrolled in Chemistry; teacher recommendation

This college level course is open to students who have shown a keen interest in the fields of medicine, applied sciences, or major in science. The course will take an in depth look at: Ecology, Cellular and Molecular Biology, Genetics and Biotechnology,

Science Continued . . .

Evolution, Microbiology, Botany, and Zoology. Both semesters will integrate and emphasize laboratory work, along with laboratory and written reports and project work. Animal dissection will be included in the study. This course prepares students to take the AP Biology test in May.

Environmental Science

One semester, open to 12th
Prerequisite: None

Environmental Science is a lab based class in which the goal is to provide students with the scientific principles and concepts required to understand the interrelationships of the natural world, to identify and analyze environmental problems, and to examine alternative solutions for resolving or preventing them.

Forensic Science

One semester, open to 12th
Prerequisite: None

This course is designed for students to learn about the nature of forensic science, including the collecting, analyzing, and reporting of crime scene evidence. This course combines biology, chemistry, physics, and probability to show how crimes are solved. Students will be required to demonstrate, as well as perform laboratory investigation.

Human Anatomy & Physiology

Two semesters, open to 11th, 12th
Prerequisite: Teacher recommendation

This course is open to students who have taken *Biology* and have shown a keen interest in the fields of medicine or applied sciences. The course will look at both cellular and molecular, and gross anatomy and physiology of the human body. Animal dissection will be included in the study. Both semesters will integrate and emphasize laboratory work, along with written reports and project work.

Social Studies

SOCIAL STUDIES SEQUENCE
(substitute courses are in parenthesis)

- Year 1: World History & Geography (AP World History)
- Year 2: US History and Geography (AP US History)
- Year 3: One semester of Economics (AP Macro Economics)
One semester of Civics (AP US Government & Politics)
- Year 4: Not required but recommended, one social studies elective
(Philosophy/Ethics, Psychology, Social Problems, or AP Social Studies electives)

World History & Geography

Two semesters, open to 9th – 12th
Prerequisite: None

AP World History may be a substitute for this course. This course is a survey of world history from early civilizations to the present day. The class takes both a chronological and thematic approach, giving students both a sense of historical progression and the ability to see global patterns among various societies. A strong emphasis will be on current global issues, giving students an understanding of the connection between world history and what is happening in the world today. Developing geography skills and incorporating current events will be an important part of this course. Juniors may take either semester of *World History & Geography* to meet the *World History* graduation requirement. The opposite semester will meet the social studies requirement.

AP World History

Two semesters, open to 11th and 12th

This class may be taken in place of, or in addition to, *World History and Geography* listed above. This course is equivalent in nature to an introductory college-level course in world history. The class will be a survey of change and continuity over time, but will emphasize themes throughout history and the comparison of various cultures. Students will be encouraged to take the advanced placement (AP) test given by the College Board, for possible college credit. AP exams are given in May of each year.

US History & Geography

Two semesters, open to 10th
Prerequisite: None

A required course covering the period from 1890 through today. The political, social, and economic foundations of modern America are studied in an effort to understand the fast-paced changes that affect us today. The first semester will review early American history and then cover 1890 through the stock market crash of 1929. Geography, economics, and civics will be incorporated into the class, along with current events and Michigan history.

AP US History

Two semesters, open to 10th
Prerequisite: None

This class may be taken in place of the regular *United States History* class. This is a survey course in American history covering the pre-Columbian period to the present. This course is equivalent in nature to an introductory college-level course in U.S.

Social Studies

Continued . . .

History. Students will take notes, read and analyze historical documents, and use a college level text. Upon completion of the course, students will be able to express themselves with clarity in their written and oral work. Geographic skills and current events will be incorporated, along with civics and some local and Michigan history. Students will also have the opportunity to take the advanced placement test that is given by the College Board, for possible college credit.

Civics

One semester, open to 11th, 12th

Prerequisite: None

A required course which will cover the form and function of federal, state, county, township, city, and village governments. The rights and responsibilities of citizens will be stressed. The course will emphasize the historical development of our nation's government and will also present the relationship between our government and economy.

AP Government & Politics US

One year, open to 11th, 12th

An elective course that may be taken in place of civics. This course will take an in-depth look at many of the topics and theories introduced in Civics.

Emphasis will be placed upon the relationships between the branches of government and the people, and the historical background and evolution of our government, political parties, and individual rights. *AP Government & Politics - US* is recommended for college bound students who are interested in law or politics. It is designed to prepare students for the Advanced Placement Government and Politics US exam.

Economics

One semester, open to 11th, 12th

Prerequisite: None

This required course will provide students with a general introduction to the concepts of economics and the advantages of a capitalistic society. It is designed to help provide the necessary background so that students are better prepared to take the economics segment of the Michigan social studies exam. Students will be exposed to concepts of both microeconomics and macroeconomics. So that students better understand the concepts of investing, they will participate in a statewide stock market competition. This course should also help students be prepared to take college-level economics courses.

AP Macro-Economics

Two semesters, open to 11th, 12th

Prerequisite: recommended previous AP course

This class may be taken in place of the regular Economics class. The course will provide students with a thorough understanding of the basic principles of economics that apply to decision-making within the larger economic system.

Primary emphasis will be placed on the nature of markets: money, banking, credit, and the role of government in promoting efficiency and equity in the economy. Special topics will include macroeconomic issues such as international economics and analyses of economic performance. Students will be prepared to take the AP Macroeconomics examination for possible college credit.

Philosophy/Ethics

One semester, open to 11th, 12th

Prerequisite: None

An elective course. During the first quarter students will be exposed to some of the major philosophers of the Western tradition, including: Plato, Aristotle, Aquinas, Hume, Kant, and Mill as well as the major ethical systems off the West, such as Cultural Relativism, Religious Absolutism,

Rational Absolutism, Utilitarianism, and Existentialism. During the second quarter, students will use a variety of current ethical problems to examine, analyze, and evaluate concepts such as tolerance, diversity, human nature, rights and responsibilities, equality, justice, and freedom. The course will provide appropriate opportunities for students to exercise the skills needed for thinking, writing, and interacting with others philosophically. Strongly recommended for all college prep students.

Psychology

One semester, open to 11th, 12th

Prerequisite: None

An elective course covering personality growth, mental and emotional health, physical growth and learning, perception, intelligence, and retardation. The student will gain an understanding of him/her self and others as he/she learns, thinks, and grows mentally and emotionally. This course should be considered by anyone interested in any of the following career areas: social work, clinical psychology, reporter, writer, public administrator, personnel manager, teacher, lawyer, politician, or any of the medical fields.

Social Problems

One semester, open to 11th, 12th

Prerequisite: None

An elective course which deals with man and his relationship to others. Emphasis is given to American cultural concepts by analyzing particular institutions and problems found in our social organizations. Topics of study may include crime, prejudice, alcohol and drug awareness, suicide, homelessness, environmental problems, and the function of education. Guest speakers are an important aspect of the class. This course provides an introduction to the study of sociology, which is necessary for those students who are considering a people-oriented career. During the second nine weeks, six hours of community service is required.

Technology Trades & Industry

Automotive Awareness

One Semester, open to 9th-12th

Prerequisite: None

Auto awareness is an introductory course intended for students not pursuing an automotive career. It is open to male and female students. The course will provide students with the knowledge to make economical decisions and take preventative measures to improve the overall satisfaction of being an automotive consumer. Students will learn general auto servicing, basic troubleshooting knowledge, and auto technology tips. This course is mostly theory and uses some laboratory work for a hands-on experience.

Small Engines

One semester, open to 9th-12th

Prerequisite: None

This is an introductory course that explores the components, design, and operation of single-cylinder, four-stroke gas engines. This course is used to introduce students to tools and machines used in engine repair and service. It compares the design features of small gas engines and automotive engines. This class teaches the theory of how the engine works and the procedures of how to repair it. Students will be expected to disassemble, measure, reassemble, and run a small gasoline engine.

Automotive Fundamentals

One semester, open to 9th-12th

Prerequisite: None

This course is designed to investigate the basic operating systems of the automobile. The function of each system, as well as the typical repairs performed, will be discussed and illustrated. Students will experience this course through laboratory work, technical training, and theory. Students will learn how automobiles operate and how to properly service, maintain, and care for today's automobiles.

Both personal and shop safety will be covered extensively, and students will learn to work in a trustful, respectful, and responsible manner. This is an exceptional class for any student interested in continuing the investigation in areas of automotive.

Vocational Automotive Technology

Two hour block.

Two semesters, open to 9th-12th

Prerequisite: None

This class meets one of the Michigan Merit Curriculum requirements for: Applied Arts, or a senior math related course, or an elective credit.

Vocational Automotive Technology is a National Automotive Technicians Education Foundation (NATEF) accredited program of study taught by an ASE certified auto instructor that prepares graduates for Automotive Service excellence exams. The mission of the Automotive Technology Program is to assist the student in acquiring the knowledge, skills, and attributes necessary to be a successful entry level worker in the field of Auto Technology and/or continue his/her education in a related occupational field. In the Automotive Technology Program, students will learn everything from basic maintenance to major repairs in the following certified areas: brakes, suspension and steering, electrical systems, and manual drive trains. The major part of this experience will be technical training and laboratory work designed to develop skills necessary to repair the modern automobile. Safety, good work habits, skill, pride, and workmanship will be expected from the students. Students have the opportunity to travel and meet employers while experiencing multiple automotive businesses, trade schools, community colleges, and universities. Instruction in the Automotive Technology is a

combination of math, reading, science, and technological skills. Students wanting to advance their technical training may repeat this course for credit. **Southwestern Michigan college and Ferris State University may grant credit for this course.**

Welding Fundamentals

One semester, open to 9th-12th

Prerequisite: None

This class meets the Applied Arts Michigan Merit Curriculum requirement and an elective credit. This is an introductory course exposing students to oxyacetylene welding and cutting, brazing, soldering, shielded metal arc welding, and gas metal arc welding. Students apply critical thinking skills in a hands-on way collaboratively and independently to solve problems and create projects. Both personal and shop safety will be covered extensively, and students will learn to work in a trustful, respectful, and responsible manner.

Vocational Welding

Two hour block

Two semesters, open to 9th-12th

Prerequisite: None

This class may meet Michigan Merit Curriculum requirements for: *Applied Arts, or 3rd year science elective, or senior math related course, or an elective credit.* Vocational Welding is designed for students who have a genuine interest in learning welding as a life skill or future occupation. Students will experience in-depth, hands-on training and safety in oxyacetylene welding, manual and automatic flame cutting, brazing, soldering, silver soldering, shielded metal arc welding, gas metal arc welding, and gas tungsten arc welding. Pupils are taught to perform machine maintenance and repair along with tool identification, measurements, and many job related skills. Students have the opportunity to travel and meet

Technology Trades & Industry

Continued . . .

employers while experiencing multiple welding shops, trade schools, community colleges, and universities. This class is designed to aid students in their post graduation decision, going from school to work, or attaining a higher level of education in welding and manufacturing.

Southwestern Michigan and Lake Michigan colleges may grant college credit for this course.

Introduction to Woodworking

One or two semesters, open to 9th–12th
Prerequisite: None

This class meets the Applied Arts Michigan Merit Curriculum requirement and elective credit. This course is designed to offer students a hands-on exploration of hand tools, portable power tools, and woodworking machinery. Students are exposed to multiple facets of woodworking including furniture construction, cabinet making, and rough construction. Over the course of a year, students will build an Adirondack chair, a night stand, an outdoor shed, and an optional project (time permitting). There will be a fee to purchase projects made in the shop. Both personal and shop safety will be covered extensively, and students will learn to work in a trustful, respectful, and responsible manner. This is an exceptional class for any student interested in woodworking.

Advanced Woodworking

One or two semesters, open to 10-12th
Prerequisite: Introduction to Woodworking

This class meets the Applied Arts Michigan Merit Curriculum requirement and elective credit. This course reiterates proper tool and machine usage, along with safety while introducing maintenance and repair of equipment. Students will learn and apply advanced joint and finishing techniques to independent projects. This class focuses primarily on furniture and cabinet construction. Pupils are

required to work collaboratively and think critically to solve problems that arise during construction. Sketching and project planning are covered, permitting and opportunity to show artistic creativity in project design. There will be a fee for material prior to project construction. Students are welcome to keep projects created in class. Students are encouraged to enter the annual MITES woodworking contest where college scholarships are presented to top finalists.

Mechanical Drawing /CAD

Two semesters, open to 9th-12th
Prerequisite: None

This class may meet Michigan Merit Curriculum requirements for: Applied Arts, or senior math related course, or an elective credit. Mechanical Drawing/CAD is designed to introduce students to the fundamentals of drafting. This introductory course gives students the opportunity to independently and collaboratively work on visualization, sketching, and drawing by hand and electronically. The curriculum explored in *Mechanical Drawing/CAD* is essential for college freshmen pursuing a career in engineering. The skills attained in this class are required in architectural, mechanical, and engineering firms around the world. Students will learn board drafting in conjunction with a multitude of computer programs including, but not limited to, AutoCad and Solidworks. **Southwestern Michigan and Lakeshore Michigan Colleges may grant college credit for this course.**

Architectural Drafting

Two semesters, open to 10th-12th
Prerequisite: Mechanical Drawing/CAD
This class counts as one elective credit or a senior math related course. This course is intended for those students with an interest in architecture, architectural design, or any of the building trades. Areas to be studied include: design concepts, building materials, and construction methods. Students are given the skills to complete a usable set of construction drawings and create a model house. This class focuses on board drafting along with computerized programs such as Sketchup, AutoCAD, and ArchiCAD. Students are encouraged to enter the annual MITES architectural contest where college scholarships are presented to top finalists. **Southwestern Michigan and Lake Michigan Colleges may grant college credit for this course.**

Engineering Drafting

Two semesters, open to 10th-12th
Prerequisite: Mechanical Drawing/CAD
This class counts as one elective credit or a senior math related course. This course is intended for those students with an interest in engineering or machine and tool design. Areas to be studied include: design concepts, decimal units of measurement, and common milling procedures. Students are given the skills to design tool and die components. This class will focus on board drafting along with computerized programs such as AutoCAD and Solidworks. Students are encouraged to enter the annual MITES engineering contest where college scholarships are presented to top finalists. **Southwestern Michigan and Lake Michigan Colleges may grant college credit for this course.**

World Languages

Most colleges require or recommend two years of the same world language in high school. The world language course requirement depends on the college of your choice. Check your college admission requirements. A general brochure, *Why study a second language?*, is available in the counselor's office.

French 1

Two semesters, open to 9th-12th
Prerequisite: "C" or better in English or teacher recommendation

In the first year of French, students will learn French with a communicative approach. Students will study phrases that can be used to function in many situations, and they will establish a solid base of grammar and vocabulary. The class will explore the different cities in France and Canada where French is spoken and learn about their culture, specifically, the French capital Paris. Students will take time to study the different sites and monuments that Paris has to offer.

French 2

Two semesters, open to 9th-12th
Prerequisite: "C" or better in French 1 or teacher recommendation

In French 2, students will build on their existing foundations of vocabulary and grammar. New verb tenses will be introduced to improve students' speaking, writing, and reading skills. Culturally, the students will learn about the French Provinces and the Castles of France along with French-speaking Martinique and Côte d'Ivoire.

French 3

Two semesters, open to 10th-12th
Prerequisite: "C" or better in French 2 or teacher recommendation

The third year of French will explore the world of phonetics, the study of speech sounds, and the use of the French-English dictionary. New vocabulary, grammar, and verb tenses will be introduced. Culturally, the students will explore French-speaking African countries along with France and Canada. This class will stress communication, reading, and writing skills. Time

permitting, the year will be ended by reading *Le Petit Prince* by Antoine de Saint Exupéry.

AP French Language

Two semesters, open to 10th, 11th, 12th
Prerequisite: "C" or better in French 3 or teacher recommendation

This fourth year course prepares students (through reading and writing activities) for the Advanced Placement Test. Students focus on strengthening four communicative skills: reading, writing, listening, and speaking. Culture will be highlighted in every unit. Reading and writing will be stressed to complete an intense review of grammar. The reading of a French novel will also be a part of the curriculum. (The AP Test is not a requirement, but it is strongly recommended.)

French 5

Two semesters, open to 11th-12th
Prerequisite: C or better in AP French or teacher recommendation

During this course students will continue developing their language skills through readings and writings. The focus will be on learning French literature, history, and culture.

German 2

Two semesters, open to 9th-12th
Prerequisite: "C" or better in German 1 or teacher recommendation

The student will review grammar and vocabulary acquired in German 1. Students will continue to develop and expand their knowledge of German grammar, conversation, pronunciation, and vocabulary. Readings promote active use of German. Opportunities for presentations and compositions based on readings may also be provided.

German 3

Two semesters, open to 10th, 11th, 12th
Prerequisite: "C" or better in German 2 or teacher recommendation

German 3 focuses on fluency, pronunciation and usage of expressions and idioms through discussions, skits, and dialogues. The student also concentrates on reading, writing, and grammar. Ease of reading is more fully developed through supplementary short stories and biographical sketches of famous Germans. Students write short papers in German. A field trip may be included to reinforce German culture.

AP German Language

Two semesters, open to 11th, 12th
Prerequisite: "C" or better in German 3 or teacher recommendation

In German 4 students study the use of language for active communication: the ability to understand the spoken language in both formal and conversational situations; the ability to express ideas accurately and resourcefully, both orally and in writing; and the development of vocabulary for reading newspapers and magazines, contemporary literature, and other writings. The course includes training in the organization and writing of compositions and an in-depth review of grammar. Materials include films, newspapers, magazines, and contemporary literature. This fourth year course is to prepare students for the AP German test in May.

German 5

Two semesters, open to 11th, 12th
Prerequisite: "C" or better in AP German 4 or teacher recommendation

In-depth grammar review, vocabulary development and reading literature, magazines, and newspaper are the focus of this class. Students continue to use

World Languages

Continued . . .

the language for active communication through listening, speaking, reading, and writing in German.

Spanish 1

Two semesters, open to 9th-12th
Prerequisite: “C” or better in English or teacher recommendation
The student is introduced to the Spanish language, its sounds, idioms, grammar, sentence structure, culture, history, and music. Spanish culture is integrated in each lesson with the four basic skills, reading, writing, speaking, and listening. Occasionally, there will be trips, music, and videos to reinforce/or expand the classroom experience.

Spanish 2

Two semesters, open to 9th-12th
Prerequisite: “C” or better in Spanish 1 or teacher recommendation
A continuation and broadening of the first year of Spanish. Goals include helping the student acquire the ability to use Spanish and understand its meaning and connotations. A review of pattern structures and syntax already acquired is presented.

Spanish 3

Two semesters, open to 10th, 11th, 12th
Prerequisite: “C” or better in Spanish 2 or teacher recommendation
This course consists of oral practice for fluency, pronunciation, and usage of expressions and idioms. Students will continue to learn and refine their use of grammar, conversation, and pronunciation, and will be introduced to authentic Hispanic reading.

AP Spanish Language

Two semesters, open to 11th, 12th
Prerequisite: “C” or better in Spanish 3 or teacher recommendation
Emphasis is on proficiency in the four main skills: listening, speaking, reading, and writing. Culture is for the most part integrated into these areas. Grammar

reviews and practices will serve as a tool to achieve proficiency in these areas. Besides preparing for the AP test and its format, students will foster skills to make language acquisition a lifelong endeavor through a variety of materials and media. Students will have summer readings and online activities to maintain and enhance their language abilities.

Spanish 5

Two semesters, open to 11th, 12th
Prerequisite: “C” or better in AP Spanish 4 or teacher recommendation
Grammar review, vocabulary development and reading literature, magazines, and newspapers are the focus of this class. This course is a possible preparation class for the AP Spanish exam in May.

Exploring World Languages & Cultures

One semester, open to 9th - 12th
Prerequisite: None
This course explores world languages offered in high school and college. Its emphasis is the understanding of language, culture, people, traditions, and customs of nine world languages and appreciation of the similarities and differences with the student’s own culture and language. Basic vocabulary, social expressions, and conventions will be learned.

Miscellaneous

Dual Enrollment

One or two semesters
Open to 11th, 12th
Prerequisite: Principal approval and meet readiness assessment scores on the PSAT, PLAN or Michigan Merit Exam.
Dual Enrollment is an educational option for 11th and 12th grade students who enroll in high school and simultaneously enroll in college. Students may exchange each three-credit college class for one high school semester class. Students may take classes for college credit, high school credit, or both. Lakeshore Public Schools is mandated by law to pay a particular dollar amount toward college tuition based on a State formula. There are course enrollment limitations and qualifications based on state assessment scores. If a student fails dual enrollment, he/she must reimburse the high school for the dual enrollment fees. Activity courses or courses taught at Lakeshore may not be taken for dual enrollment.

Academic Independent Study

One semester, open to 12th
Prerequisite: Approved contract
Independent Study is intended to provide students with the opportunity to explore areas of study not available to them in the regular curriculum. It is not a substitute for a graduation requirement or for a course already offered. Teachers must voluntarily agree to supervise projects in their classrooms. A complete description of the chosen project must be submitted in writing and signed by the student, principal, and supervising teacher. This description must include an evaluation procedure. Students will receive credit (CR) or no credit (N) for all projects. A student is allowed only one semester credit of independent study.

(Continued next page . . .)

Academic Achievement Center

Academic Achievement Center is designed for high school students who are in need of credit recovery in order to graduate on time, remedial instruction in order to meet graduation requirements, and special assistance due to medical or other conditions preventing the student from being successful in the traditional school setting. Students will experience one-on-one interaction with a staff member, learn effective study skills, and will use individualized computer instruction to earn their credits.

Participation in the program will be determined by a team approach that will involve the student's counselor, an administrator, a teacher, parent, and student all working together to develop an academic plan. The program may also be offered to some expelled students at the recommendation of the high school principal.

Alternative Education

Alternative Education (AE) is a self-selected program designed for high school students who have experienced academic, personal, social, or attendance difficulties in a traditional high school setting. The program provides students with an alternative opportunity to earn a high school diploma.

Diploma and graduation requirements are the same as the traditional high school. Students will use computerized, self-paced instruction modules and conventional coursework to meet curriculum requirements. Students and parents/guardians must sign a contract committing to program goals. Applications are available in the guidance office.

Miscellaneous continued . . .

Yearbook

Two Semesters, open to 11th – 12th

Prerequisite: Instructor approval

Recommendation: Beginning Journalism

In Yearbook, students become published photojournalists with their work appearing in the DRIFTWOOD, an annual Lakeshore High School publication. Yearbook staff members conduct personal interviews, write copy, captions, develop the skills necessary for layout and photography, secure advertising, and become proficient in InDesign and Photoshop. Students demonstrate proficiency as they take their copy and layout through multiple drafts. This class is treated like a business; all staff members hold specific staff positions and are expected to accomplish individual responsibilities. All students will participate in the business aspects of yearbook which include: marketing, distribution of books, selling advertisements and senior bags, publicity, fundraisers, and general office procedures. Staff members must conduct themselves as responsible, dependable journalists with initiative and creativity, and must demonstrate mature behavior inside and outside the classroom. One quarter (25%) of the first semester grade is based on selling ads and yearbooks.

Special Education

To be eligible for special education services, a student must meet the definition of one or more of the categories of disability specified under the Individual with Disabilities Education Act (IDEA) and Michigan special education law; and the student must be shown to be in need of special education and related services as a result of the disability. Special education students may graduate from Lakeshore Public Schools by completing all graduation requirements set by the Michigan Board of Education.

An Individualized Educational Plan (IEP) is written for each special education student. The plan includes a present level of academic and functional performance to determine appropriate goals and objectives to assist students with their disability. By age 16, a transition plan is developed to address post-secondary training, community participation, employment (vocational training/work study), and daily living skills.

Lakeshore students are provided a continuum of special education support from the least restrictive educational services of teacher consultant to a full-time self-contained special education classroom. For more information about special education services, please contact the Director of Student Services.

Transitions/Resource

Open to 9th-12th grade special education students. This course is designed primarily for students who require additional support and a transition curriculum to achieve success in high school. The class provides instruction to assist students in the areas of personal, social, academic, and career-related activities.

Work Study

Two semesters, open to 11th and 12th grade students. Prerequisite: Application approval. Students will receive guidance in searching and maintaining a job. The Berrien County Intermediate School District or Lakeshore Schools will monitor job performance. This elective provides paid or unpaid on the job training in a work/career environment. Students will receive credit based on completion of paperwork and job performance.

Off-Campus Courses

Career Technical Education Classes—CTE

These classes are offered by neighboring school districts, colleges or local businesses. Students will be required to follow other district or college schedules and grading policies. It is mandatory for students to ride the bus when transportation is provided by the school district. Courses marked with a plus (+) may require the student to provide their own transportation. See your counselor regarding transportation issues. Services are available for all special population students in all CTE classes.

Prerequisites for all CTE courses: A commitment of two semesters, “C” average or permission from a counselor, excellent attendance, a written application, and a transportation contract signed by a parent is required for all students enrolled in a CTE Program.

All Andrews University, Lake Michigan College, Southwestern Michigan College, and Western Michigan University courses are college level courses.

Students may acquire a CTE Applications from the Guidance Office. Required paperwork (Rules and Transportation Contract) will be mailed to students during the summer.

Arts & Communication

Graphic Arts 1

(Andrews University and St. Joseph High School)+

Three-hour block (morning)

Two semesters, open to 11th & 12th

Prerequisite: Computer Applications

The graphic arts career program offers students the unique opportunity to gain high tech skills and college credits in digital multimedia productions, digital web/graphics publishing, digital imaging, and print productions. This course may be available for college credit through Andrews University’s College of Technology or Lake Michigan College. Further information may be found at: www.lakemichigancollege.edu or www.andrews.edu.

Graphic Arts 2

(Andrews University)+

Three-hour block (To be determined)

Two semesters, open to 12th

Prerequisite: Graphic Arts 1

This is a continuation of Graphic Arts 1 & 2 offered by Andrews University and Lake Michigan College. The second year of graphic arts will teach students advanced skills in computer-generated graphics, digital imaging or advanced desktop publishing. **Students may**

apply to Andrews University or Lake Michigan College for direct credit.

Media Communication

(Benton Harbor High School)

Two-hour block (morning)

Two semesters, open to 11th & 12th

Prerequisite: None

Media Communication will have an emphasis on video production, news reporting, and will meet at Benton Harbor High School’s Media Studio.

Business, Management, & Marketing

Cisco/Network Administration 1

(New Buffalo or LMC, M-Tec Center)+

Three-hour block (morning, NB) or

Two-hour block (afternoon, LMC,

M-Tec) Two semesters, open to 11th

and 12th Prerequisite: Computer

Applications & Algebra

Cisco networking provides technology training with principles and practices of designing, building, and maintaining

networks. The first year program provides networking fundamentals, router theory, and technology training.

This is the first year of a two-year program to prepare students for the Cisco Certified Network Exam. (Students may enroll for one year).

Cisco/Network Administration 2

(New Buffalo or LMC, M-Tec Center)+

The second year of Cisco continues to prepare students for Cisco certification.

The curriculum will consist of advanced routing, switching, and project based learning in advanced design and management. This program is intended for serious engineering and science focused students.

Finance Academy

(St. Joseph High School) +

Two-hour block, 1:00 p.m. - 2:45 p.m.

Two semesters, open to 11th and 12th

Prerequisite: Complete application

packet, see counselor for application

packet, interview and 3.0 minimum

grade point average

The *Finance Academy* is designed to target students from the *Business Management, Marketing, & Technology Pathway*, who aspire to careers in

business. Students will have experiences in all facets of finance including: general business, finance, banking, accounting, and real estate. Students will be provided with authentic business exploration as well as secondary and post-secondary educational preparation by developing career awareness by allowing students to work side by side with business professionals. **College credit will be given.**

Off Campus

Continued . . .

Engineering, Manufacturing and Industrial Technology

Aviation

(Andrews University)+

One-hour class (evening class)

Two semesters, open to 12th grade or students who are 18 years old

Students will enroll in *Introduction to Aviation* (AFTL104) semester 1 and *Private Pilot Ground School* (AFTL111) second semester. These courses

acquaint students with opportunities in aviation, preparation for the FAA private pilot written exam, and students are provided with limited flight and ground instruction. Limited enrollment.

Students may apply to Andrews University for direct credit.

Construction Trades

Second year is available.

(New Buffalo or Berrien Springs)

Three-hour block (morning & afternoon)

Two semesters, open to 11th and 12th Students who attend the New Buffalo's site are placed at an actual construction site where students actually build a home! Students at the NB site learn most skills required to build a home.

At Berrien Springs, students attend a modular program at the Intermediate School District where students learn every aspect of building. Actual journeymen tools and equipment will be used during class-time. Learning will focus on construction and building maintenance activities at both the New Buffalo or Berrien Springs Sites. Students must expect to work indoors and outdoors in all weather conditions. (Student may be required to ride the bus.)

Cabinet/Furniture Making

(St. Joseph High School)+

Two-hour block (afternoon)

Two semesters, open to 11th and 12th

Prerequisite: Woods 1 & 2

This course is designed for those students who have a serious desire to increase their skills in woodworking. Students will design their project using a computer-aided drafting program. Projects developed must be aimed at achieving excellent craftsmanship and finishing. Additional project fees will be required.

Electronics

(Benton Harbor High School)+

Two-hour block (3rd and 4th hour)

Two semesters, open to 11th and 12th Want to spark the fire that makes things work? Sign-up for an electronics course and learn the basics of electronic theory and practice through the study of semiconductors, microprocessors, and consumer electronics repair. Coursework prepares you for attaining a certified digital technician rating. This class will also include Home Technology Integration. Modules are used to learn some of the necessary knowledge to install and maintain home technology systems.

Energy Production Academy

(Bridgman High School)

Two semesters, open to 12th

Prerequisites: Complete application packet, see counselor for the application packet, interview, and highly recommended students passed Algebra 2 and Chemistry or Physics.

The Academy will introduce seniors to professional technology careers through both high school and college course work and rotating internships in area Energy Production facilities. Field experience will include job shadowing, observations, and hands-on activities in local energy production facilities.

Alternative Energy Production Technology Program

(LMC Bertrand Crossing)+

Three-hour block (morning)

Two semesters, open to 12th

Prerequisites: Algebra/Geometry

This program will include at least two energy generation related field trips. Trips will likely include a tour of a solar powered house and a methane powered electrical generation plant. Program curriculum includes DC electronics, AC electronics, transformer, motors and motor controls, industrial safety power generation and distribution/alternative energy sources, and residential wiring/ NEC and cabling technology.

Manufacturing Academy

(LMC, M-Tec)+

Two-hour block (afternoon)

Two semesters, open to 11th and 12th First semester will focus on technical hands-on experiences in manufacturing, which includes precision machining, manufacturing, and machine building/repair. This course will explore a variety of career opportunities such as tool and die maker, machine setter, computer control operator, and metal tender. Students will explore print reading/drafting, precision measurement, and machine tool operation. All students will gain skill in operating standard machine tools including drill press, milling machine, lathe, grinders, and shaper.

Lake Michigan College may grant credit for this course.

Pre-Engineering/Infinity

(Coloma High School)+

Three-hour block (To be determined)

Two-semester open to 12th

Prerequisite: Algebra 3 - 4

The Infinity Project, created by an alliance with Southern Methodist University and Texas Instruments, brings state-of-the-art engineering and

Off Campus

Continued . . .

advanced technology education into high schools nationwide. This program teaches students how engineers use their ingenuity to imagine and build new technologies. Students will work with visual application on building software and digital signal processing hardware; such as, digital music synthesizers, optical money counters, wireless networks, and touch-tone cell phones.

ENGINEERING & COMPUTER SCIENCE

(Andrew University) +

Two or three-hour block (morning and/or afternoon depending upon course selections)

Prerequisites: Algebra 1, Geometry, Chemistry (Algebra 2 is also recommended)

Qualified students will enroll and attend engineering or computer science courses at Andrews University receiving direct credit. This is a challenging and informative introduction to the engineering and the computer science disciplines. The students desiring to know more about these career options will have a clear understanding of what is involved in these exciting professions. Classes include: INTRODUCTION TO ENGINEERING 120, 2 credits; ENGINEERING GRAPHICS 125, 2 credits; MATERIALS SCIENCE 180, 4 credits; INTRO TO COMPUTER PROGRAMMING 125, 3 credits; COMPUTER SCIENCE I, 151, 3 credits; COMPUTER SCIENCE II, 152, 3 credits. **Students may apply to Andrews University for credit.**

Health Sciences

Professional Health Careers Academy 1

(Lakeland Hospitals—Niles & St. Joseph)+

Three-hour block (morning at Niles and

afternoon at St. Joseph)

Two semesters, open to 11th and 12th

Prerequisite: complete application packet, see counselor for the application packet, interview, and 3.0 minimum grade point average

The *Professional Health Careers Academy* program introduces high school juniors and seniors to professional health careers through both course work and rotating internships in area health care facilities. It is a partnership between the Lakeland Regional Health System, Lake Michigan College, Western Michigan University, and the PA 56 Consortium in Berrien County. Students may earn college and high school credit. See your counselor for an application.

Professional Health Careers Academy 2

(Lakeland Hospitals—Niles & St. Joseph)+

For second year students of Professional Health Career Academy, students will be required to write a letter of intent. In order to continue as a second year student of PHCA students must be in good academic standing in all components of PHCA and in good standing at their internship sites. Second year students will receive a curriculum that is tailored to meet their needs.

Lake Michigan College and Western Michigan University may grant direct credit.

Sports' Medicine (Athletic Training Assistant)

(St. Joseph)+

Two-hour block (afternoon)

Two semesters, open to 11th and 12th
Prerequisite: Biology

The primary goal is to provide students the introductory skills and awareness of what the athletic training field entails. Students will be required to participate in extracurricular events as assistant

athletic trainers. Some after school and evening hours will be required in order to successfully complete the course. Athletic training involves good academic skills, hands-on training, and excellent communication skills.

EMT

(Berrien Springs Middle School) +

Three-hour block (morning)

Two semesters, open to 11th and 12th

Prerequisite: Ability to handle college-level work.

This program provides an opportunity to earn emergency medical technician and specialist certificates. Courses are college level, and the student must earn a grade of "C" or better on all tests/homework, dress as required by clinics and complete 32 hours of clinical work with local ambulance service and hospitals (earned during class time). Information and paperwork will be provided to register in the National Registry as well as reservations for the state examination. Students under the age of 18 may take this course with knowledge they will not be eligible for certification until their 18th birthday. Students must meet all immunizations requirements, and have a commitment to work in the human services field as a team member. **Lake Michigan College may grant direct credit.**

Pharmacy Technician

(LMC Bertrand Crossing, Niles)+

Three-hour block (morning)

Two semesters, open to 12th

Prerequisite: Chemistry

Consider entering the *Pharmacy Tech* program where you will gain the knowledge and skills required to be a pharmacy technician. Students will experience supervision from professionals in this field of work under the direction of a pharmacist in a variety of settings such as hospitals, community

Off Campus

Continued . . .

retail outlets, and research labs.

Pre-Veterinary (Animal Science)

(Andrews University)+

Three-hour block (morning) (A second semester is available; see CTE Director)
Prerequisite: Anatomy

This rigorous course will include basic farm animal anatomy, reproduction, dietary requirements, health management, production methods, and management of domesticated livestock. Andrews University course equivalent is ANSI-1114.

Human Services

Cosmetology

Second year is available.

(Twin City Beauty College)+

Three-hour block (afternoon)

Two semesters, open to 11th and 12th
Prerequisite: An interview and the strong personal and financial commitment to cosmetology

By completing this course, you will have the 1500 hours of cosmetology training necessary to take the state licensing examination to qualify as a licensed beautician. Cosmetology requires a student to commit to 1 1/2 to 2 years of required training. The training schedule will be from 1:00 P.M. – 5:00 P.M. Monday – Friday. Summer hours may be required. Enrollment limited! Lakeshore will assist with tuition after one semester of successful completing of cosmetology. See your counselor for details.

Law Enforcement Academy

(7:45 a.m. - 10:10 a.m. LMC Bertrand Crossing, Niles)+

(11:45 a.m. - 2:10 p.m. LMC Napier Campus, Benton Harbor or Tec Center)+

Three-hour block

Two semesters, open to 11th and 12th
Prerequisite: Algebra 2 or teacher approval

The course is academic in nature yet is supplemented with guest speakers and

field trips. Professionals in the Criminal Justice field will offer hands-on education for the students. The class is divided into three sections. Introduction to Criminal Justice is the first section of the class which explores the three components of the criminal justice system: police, courts, and corrections. The next section is Criminology. This section explores the nature of the criminal offender and theories concerning why the individual offends. The third section will include either Internship or Entrepreneurship. Acceptance into the Internship is limited, and will therefore include completion of an application. Internship students will schedule mentoring time with a professional in the criminal justice field. In the Entrepreneurship section, students will complete portfolios and a resume writing course. **Lake Michigan College may grant credit for this course.**

Fire Fighting

(Berrien Springs, Oronoko Fire Department)

Three-hour block (morning)

Two semesters, open to 11 & 12th

Prerequisite: Medical release form signed by parent/guardian

Fire Fighting I & II is offered for a full school year. The study of firefighting will include more than 225 hours of state-mandated training and testing. Students who successfully pass all written and authentic testing will become state certified in fire fighting I & II at the conclusion of the school year. This certification is valid for employment anywhere in the State of Michigan. Students may be eligible for up to 12 college credits with successful completion of the class and passing state certification testing.

Teacher Cadet Teaching

(Bridgman and St. Joseph)+

Two-hour block (2nd and 3rd hour, Bridgman or 5th and 6th hour, St.

Joseph)

Two semesters, open to 11th and 12th

Prerequisite: Child Development or Teacher Approval

Students will prepare to enter a college program in education. The course will introduce students to contemporary issues in education, child development, psychology, and educational history. The class will include classroom and teacher mentorship activities. Teacher cadet students will receive hands-on experience at various grade levels. Students will also receive an overview of the types of courses and the skills needed to become a certified educator.

Natural Resources & Agriscience

Agriscience

(Country Side Charter School)+

Three-hour block (to be announced)

Two semesters, open to 11th and 12th
Prerequisite: None

The *Agriscience and Natural Resource Program* gives students the opportunity to participate in the planting, fertilizing, harvesting, and marketing of farm products. Students learn about natural resources, plant science, biotechnology, landscaping design, floriculture, sales, marketing, customer relations, and mechanical maintenance/repair.

Landscaping

(Andrews University)+

Two-hour block (morning)

Two semesters, open to 11th and 12th
Prerequisite: Drafting 1&2

Two courses: Landscaping Drafting and Design (HORT135 and Urban Landscaping and Design (HORT365) will help students develop technical drafting skills and design process skills. Laboratory puts the design process to work in drawing plans for residential and urban design. **Students may apply to Andrews University for direct credit.**

Michigan Colleges & Universities

It is the understanding of the students and staff at Lakeshore High School that continuing education is necessary for both technical and professional pathway student in order to compete in the future job market. A list of Michigan colleges and universities, trade vocational, proprietary schools, as well as financial aid and career information can be found on these recommended websites: www.lakeshoreschools.k12.mi.us, www.Michigan.gov/careers, www.Michigan.gov/mistudentaid, www.collegeboard.com, www.petersons.com, www.princetonreview.com, www.finaid.com, and www.studentaid.ed.gov.

High School Career & College Exams

TEST	WHEN	TEST DESCRIPTION	DATES
PLAN	10th Grade	The “pre-ACT” PLAN is a required academic and career test that provides valuable information about interest and academic strengths and weakness. It also predicts success on the ACT. www.act.org/plan (Free to Lakeshore students) Score range: 1-32	Fall
PSAT/NMSQT	10th Grade	The PSAT measures critical reading, math and writing skills on a scale from 20-80 for each test. It is a practice test for the National Merit Qualifying Test and SAT I. This is a shorter version of the SAT and is the same test 11th graders take. (Student Fee) Registration deadline is the middle of September. www.collegeboard.com	October
PSAT/NMSQT	11th Grade	The Preliminary Scholastic Aptitude Test/National Merit Qualifying Tests is only given once in October of the junior year. It is a practice test for the SAT and the results are used for qualifying scores for all National Merit Scholarship Programs, and many corporate/private scholarship programs. (Student Fee) Registration deadline is the middle of September. www.collegeboard.com	October
ACT & MME (Michigan Merit Exam)	11th Grade	The MME is a graduation requirement for all juniors. The three day exam consists of the National ACT Plus Writing; two WorkKeys tests; and Michigan Mathematics, Science and Social Studies tests. Registration is completed at school. MME results are reported on a scale 1/high to 4/low in academic areas of reading, writing, math, science and social studies. The Federal Government and State of Michigan measures school success and accountability through test results. Scores are college reportable. The ACT Plus Writing consist of achievement tests in English, math reading and science (writing is scored separately). Results range from 36/high to 1/low. The ACT is the qualify test for college admission. Visit www.michigan.gov/mme or www.actstudent.org for test details.	MME – March See ACT website for all national ACT dates.
SAT I	11th Grade	Most colleges in and outside of Michigan accept the ACT or SAT. The SAT measures critical reading, math and writing reasoning ability. Scores range from 200-800 on each test. National Merit Finalists must take the SAT to confirm their status as finalist. (Student Fee) Each section is worth 1/3 of the total score versus the ACT where each component is worth ¼ of the score. www.collegeboard.com	See website for national test dates.
SUBJECT TESTS	10th - 12th Grade	Many selective colleges use these subject test results to determine admission and course placement. Search college websites for admission requirements. Students take either the SAT or Subject Tests on national test dates. Scores range from 200-800. (Student Fee) www.collegeboard.com (Example: French, Biology, Level 2 Math, etc.)	National Test Dates
Advanced Placement (AP)	10th - 12th Grade	AP exams are given once each year in May. Exams are typically taken by students who have prepared by taking AP courses in high school. Scores range from 5/high to 1/low. (Student Fee). If students score well they may earn college credit. Search college web sites to find AP credit granting policies. www.collegeboard.com	Early May

The American Military Academies

Students should begin the application process for military academies in the junior year of high school. Ask a counselor or military recruiter for application information and material. Some of the most prestigious programs are:
The U.S. Military Academy at West Point, NY; U.S. Naval Academy at Annapolis, MD; U.S. Air Force Academy at Colorado Springs, CO; and U.S. Coast Guard Academy at New London, CT. Other well known military colleges and universities offer postsecondary education and Reserve Officer Training Corps Scholarships.

Direct Credit at Lakeshore

Lakeshore High School has partnered with Lake Michigan College, Southwestern Michigan College, and Ferris State University to provide direct credit for students. Direct credit is available by enrolling in many off campus Career Technical Education (CTE) courses however, the following CTE or Business courses at Lakeshore offer direct credit options. Page 3 offers further Direct Credit/Early College information.

Advanced Computer Applications – LMC

Internet & Web Page Design – LMC

Intro to Music Theory – LMC

Marketing 2 - LMC

PowerPoint/Publisher – LMC

Theatre Tech – LMC

Vocational Auto – SMC & Ferris State

Vocational Welding – LMC & SMC

Apprenticeships

Apprenticeship is a combination of on-the-job training (OJT) and related instruction in which workers learn the practical and theoretical aspects of a highly skilled occupation.

Apprenticeship programs are sponsored by joint employer and labor groups, individual employers, and/or employer associations. Students may be able to earn apprentice training credit while attending co-op or technical programs in high school. If interested, see your counselor, present employer, or call Lake Michigan College, Southwestern Michigan College, or the Bureau of Apprenticeship and Training Office.

Notice Regarding Non-Discrimination Policy

It is the policy of the Lakeshore Public Schools District not to discriminate on the basis of race, color, religion, national origin, sex, age, marital status, height, weight, or disability in its employment practice as well as in its educational programs, activities, and services. The Board reaffirms its policy to comply with Title VI, The Age Act of 1975, The Americans with Disabilities Act of 1990, Title VII of the Civil Rights Act of 1964, Title IX of the Education Amendments of 1972, Section 504 of the Rehabilitation Act of 1973, the Elliot-Larsen Civil Rights Act, and all other applicable federal and state laws and regulations prohibiting discrimination.

Any questions concerning Title IX of the Education Amendments of 1972, which prohibits discrimination on the basis of sex, should be directed to:

Title IX Coordinator

Superintendent

Lakeshore Public Schools ~ 5771 Cleveland Avenue ~Stevensville, MI 49127 ~ 269.428.1400

Inquiries regarding compliance with Section 504 of the Rehabilitation Act of 1973, The Americans with Disabilities Act of 1990, and the Age Act of 1975, should be directed to:

Section 504 Coordinator

Lakeshore Public Schools

5771 Cleveland Avenue

Stevensville, MI 49127

269.428.1400



**Program of Studies
& Career Pathways**

2010-2011