

DISTRICT INFORMATION

DISTRICT MISSION STATEMENT

The mission of Lake Orion Community Schools
is to prepare our students
to meet the challenges of tomorrow
by providing the educational environment
for all to learn today.

DESIRABLE BROAD STUDENT OUTCOMES

A goal of education is to provide all learners with a solid foundation of skills, knowledge, and understandings that are necessary for their continual growth and success as students within the school setting, and as adults in society. As a result of sound education based on well-defined educational outcomes, a Lake Orion student will be:

1. a person capable of learning over a lifetime
2. a person capable of applying knowledge in diverse situations
3. a person who makes decisions for successful living
4. a caring, sensitive and flexible human being
5. a creative and innovative person
6. a person able to communicate effectively in written and spoken language
7. a competent and productive participant in society

HIGH SCHOOL MISSION STATEMENT

The mission of Lake Orion High School,
in cooperation with the family and community,
is to provide an educational environment
which enables students to achieve
their potential and contribute to society.

Dear Students:

This curriculum handbook contains information necessary for you to plan and select courses that will best complement your talents and aspirations. Study this information carefully before making course selections. Counselors and other school staff are eager to assist you in developing an educational program that builds upon experiences, expands interests and promotes continuous progress toward your long range goals and career pathway.

Graduation requirements, course descriptions, prerequisite information and programs for each department are included in this handbook. It is important to understand that your schedule is generated based on your original requests and staff availability. Changing classes once the school year begins is discouraged and is not often approved. Furthermore, it is unlikely that an alternate course of interest to you will have available space once the scheduling process is complete. We remain committed to making every effort to tailor a program that best meets your educational goals while challenging your potential. Please choose your courses carefully!

Best wishes in planning your program. And remember, if you need help, feel free to contact the counselors or other school staff.

LAKE ORION HIGH SCHOOL

HIGH SCHOOL ADMINISTRATION

Sophia Lafayette..... Principal
Darin Abbasse Associate Principal (A-Gq)
Beverly Tepper Associate Principal (Gr-Om)
Chris Bell..... Associate Principal (On-Z)
William Reiss Athletic Director
Lori PevoteauxSupervisor, Learning Options and Extended Learning

COUNSELORS

Jeff Palmer..... A-Cha
Melissa Bruno Che-Ga
Carol DollGe-Kn
Michele NovakSubstance Abuse Prevention Advisor, Ko-Lee
Nicole Gaberdiel..... Lef-Pas
Alicia Conner Pat-Sr
Sarah Budreau St-Z

DEPARTMENT CHAIRPERSONS

Art.....Deborah Fristad
Business & Communications Technology Jennifer Ohlrich
Fine and Performing ArtsDeborah Fristad
Guidance..... Alicia Conner
Industrial Technology.....TBD
English Language Arts Jim Haugh / Paige Hunter
Family & Consumer Science & Physical Education..... Steve Roberts
Mathematics Tracy Burlak
Media..... Heather Olsen
Science..... Karen Wampuszyc
Social Studies Tom Romito
Special Education Heather Rutledge
World Language Jennifer Howe

BOARD OF EDUCATION 2010-11

Mary Jo Burchart.....President
Janet Wolverton..... Vice President
Jim Weidman..... Treasurer
Tiffany Weber-Phillips..... Secretary
Bob Gritzinger..... Trustee
Kelly Weaver..... Trustee
Steven Drakos..... Trustee

LAKE ORION CENTRAL ADMINISTRATION

Marion Ginopolis Interim Superintendent
Heidi Kast.....Assistant Superintendent of Educational Services
Margaret Hazlett.....Executive Director of Human Resources
Jillynn Keppler Assistant Supt. Administrative Services

Service Learning is a graduation requirement for all Lake Orion High School students. This program is the integration of education, service and citizenship into the curriculum. Service learning teaches students how to interact in real life settings using the skills and knowledge learned in the classroom. Providing service to others facilitates the transition from the dependency of childhood to the status of independent, caring adult. Our goal is to help our students to become people who find solutions to problems rather than people who wait for others to respond. **Additional information is available in the Career Resource Center.**

In Order to Walk at Graduation: All Service Hours, along with Verification – Reflection sheet for each site, must be submitted to the Career Resource Center Coordinator **no later than the last school day of January of your senior year!**

In Order to Receive a Diploma: All Service hours along with Verification – Reflection sheet for each site must be turned in to the Career Resource Center Coordinator **no later than the last school day of June of your senior year!**

Do's and Don'ts of Service Learning

- **Do not** work for a business to earn Service Learning hours.
- **Do not** 'volunteer' for family members for hours. You should help family members at all times!
- **Students may** assist senior citizens, disabled individuals, or special needs persons, other than relatives.
- **Student's** volunteer hours **MUST** benefit the community, not a business!
- **Students may** volunteer at their church groups or non profit clubs and organizations.
- **Do** make sure all sites are Non-Profit Organizations or Not for Profit events.
- **Non-Profit does not** mean 'not getting paid'. Non-Profit relates to the organization or event, i.e. Cancer Walk, United Way, Red Cross, etc. Working at a business and not getting paid is not acceptable Service Learning.
- **Do not** submit hours you may have done for another organization's requirement (Court Mandated Hours, NHS, Boy Scouts Eagle Badge, Church Confirmation, etc.) These hours will not count.
- **Don't** stop volunteering just because you have met the requirement. Your total number of hours will be part of your permanent record.
- Students, who volunteer during the summer following their 8th grade, may apply the hours toward the high school graduation requirement.
- You are not limited in the number of hours per site; you must, however, volunteer for at least 3-5 different sites.
- Incomplete Service Learning Verification sheets will not be accepted.
- You must submit completed hours within 60 days following completion. Summer hours must be turned in by September 30th.

REQUIREMENTS FOR GRADUATION

Students **MUST** choose one of the following **two** options:

Option 1. Basic Requirement

- Complete 40 service hours at approved locations or activities. (3-5 different sites required)
- Evaluation of *each* volunteer site visited (found on Verification-Reflection form).
- Hours **MUST** be submitted no more than 60 days following the completion of the activity. Hours completed over the summer **MUST** be submitted no later than September 30th.

Service Learning Verification-Reflection Sheet Guidelines:

The purpose of the Verification-Reflective sheet is twofold.

- It must be signed by a member of the organization that you volunteered, to verify your participation.
- It is to give you the opportunity to reflect on what you learned from your Service Learning experience.

All questions must be answered and signed by both the organization member and the student.

Ways to Earn Service Learning Hours:

- **Regularly Scheduled Times:** Student commits to volunteer a specified number of service hours over a predetermined period of time. For example, every Tuesday from 3:00 – 5:00 p.m.
- **Special Events:** Student makes commitment to volunteer with an organization holding a one or two-day event to benefit the community, such as a fair for kids, a walk for charity or a blood drive.
- **Student-Developed Service Projects:** A student-generated idea to help a specific organization or group of people. Each project must have the approval of the Career Center Coordinator prior to implementation.
- **Classroom-Based Service Projects:** A service project linked to the curriculum of a class and completed during class time. Ideas are available from the District Service Learning Coordinator or through individual teacher class projects.

Prorating of Service Hours:

Students transferring to Lake Orion High School will have a prorated Service Learning requirement. Students must complete 10 hours for each year or partial year that they attend Lake Orion High School.

Earning Credit - Optional

Once a student has completed the required 40 hours of service, they may choose to continue to increase their hours to a total of 90 hours to receive a ½ elective credit, or a total of 180 hours to receive one elective credit, by fulfilling the following requirements:

Earn .5 Elective Credit

- 90 service hours (All 90 hours must be completed within *one year* from the date of the first service hour).
- Completed Verification-Reflection Sheet submitted for all 90 hours.
- Request to receive credit must be discussed with and approved by Career Resource Center Coordinator prior to starting the additional hours.
- Submit a one page written speech about the Service Learning experience. You may be requested to meet with the members of the LOHS Service Learning Board if additional information is needed.

Earn additional .5 Elective Credit

Once .5 elective credits have been earned, students may apply to earn one additional .5 credit.

- Students will follow the same procedures as listed above.

Students may earn a maximum of 1 elective credit throughout their years at Lake Orion High School.

Option 2. Research Paper

In lieu of completing 40 service hours, a student may elect to complete a research paper. If a student elects to do the research paper, specific guidelines must be met and submitted prior to the beginning of their senior year.

Requirements:

- Topic:** Student must choose a topic relating to Volunteerism and submit to the LOHS Service Learning Board for approval.
- Length:** All research papers must contain 10 pages of content (no more than 11 full pages).
- Due Dates:** All items must be turned in to the Career Center Coordinator for verification on the due date. If a due date is missed; the student will stop their research for that term and begin a new research project again at the start of the next term. This option is NOT available during a student's senior year.

NCAA Eligibility

If you wish to participate in college sports, (Division I or Division II), you **MUST** register with the NCAA Clearinghouse at www.eligibilitycenter.org. After registering, please register at www.docifide.com to request a high school transcript to be sent to NCAA Eligibility Center. This process should be complete during your junior year. See your counselor for more details.

To be certified by the Clearinghouse, you must:

- 1. Graduate from high school.** You should apply for certification before graduation if you are sure you wish to participate in intercollegiate athletics as a freshman at a Division I or II institution. The Clearinghouse will issue a preliminary certification report after you have had all your materials submitted. After you graduate, **IF** your eligibility status is requested by a member institution, the Eligibility Center will review your final transcript and proof of graduation to make a final certification decision according to NCAA standards.
- 2. Earn a grade-point average of at least 2.00** (on a 4.00 scale) in a **core curriculum** of at least 16 academic courses which were successfully completed during grades 9 through 12. Only courses listed as approved on your high school's "List of NCAA Approved Core Courses" can be used to calculate your NCAA GPA. No special values are allowed for "+" or "-" grades. The chart below indicates the number of years of NCAA core courses that must be completed.

Core Units Required for NCAA Certification	Division I	Division II
English Core	4 years	3 years
Math Core	3 years	2 years
<ul style="list-style-type: none"> ▪ One year algebra and one year geometry (or one year of a higher-level Mathematics course for which geometry is a prerequisite) 		
Science Core		
<ul style="list-style-type: none"> ▪ including one lab course 	2 years	2 years
Social Science Core	2 years	2 years
From English, Math, or Science	1 years	2 years
Additional Core		
<ul style="list-style-type: none"> ▪ English, Math, Science, Social Science, Foreign Language, Philosophy, or Nondoctrinal Religion 	4 years	3 years
TOTAL CORE UNITS REQUIRED	16	14

* Please note beginning August 2013, students planning to attend an NCAA Division II school will be required to complete 16 core credits.

- 3. Earn a sum of scores of at least 68 on the ACT or a combined score of at least 820 on the recentered SAT on a national test date.**

For Division I:

The minimum grade-point average in the 16 core courses and required ACT or SAT score vary according to the Initial-Eligibility Index to the right.

This index applies to students enrolling as college freshmen during 2005-06 and thereafter who wish to participate in Division I athletics.

Use the highest scores achieved on the four individual tests of the ACT or the highest scores achieved on the verbal and mathematics section of the SAT.

For Division II:

Students must earn a minimum 2.0 grade-point average in the 14 core academic classes and achieve a combined SAT score of 820 or a sum score of 68 on the ACT.

Core GPA	Division I	
	ACT Sum	RC SAT
above 2.500	See counselor	
2.500	68	820
2.475	69	830
2.450	70	840-850
2.425	70	860
2.400	71	860
2.375	72	870
2.350	73	880
2.325	74	890
2.300	75	900
2.275	76	910
2.250	77	920
2.225	78	930
2.200	79	940
2.175	80	950
2.150	80	960
2.125	81	960
2.100	82	970
2.075	83	980
2.050	84	990
2.025	85	1000
2.000	86	1010

How to Register with NCAA Clearinghouse

Step 1 Go online to www.eligibilitycenter.org and register. Also, complete the Amateurism Certification questionnaire.

Step 2 Print both student release forms.

Step 3 Submit the signed student release forms to Counseling Office 2.

LAKE ORION HIGH SCHOOL COURSES APPROVED BY NCAA

ENGLISH

AMERICAN THEMES / LRC
AP ENGLISH 11
AP ENGLISH 12
BRITISH LITERATURE
COMPOSITION LRC
CONTEMPORARY POETRY
CONTEMPORARY WORLD LIT/ LRC
CREATIVE WRITING
DEBATE
ENGLISH/LANGUAGE ARTS 9/HONORS / LRC
ENGLISH/LANGUAGE ARTS 10/HONORS / LRC
FORENSICS
HUMANITIES
INCREASING VOCABULARY
INTENSIVE JOURNALISTIC WRITING
MYTHOLOGY/FOLKLORE/LEGEND
SPEECH
SPEECH / LRC

MATHEMATICS

ADVANCED ALGEBRA
ADVANCED ALGEBRA/HONORS
ALGEBRA 1
AP CALCULUS
AP STATISTICS
CALCULUS
GEOMETRY
GEOMETRY/HONORS
INTEGRATED MATH 1
INTEGRATED MATH 2
INTEGRATED MATH 3
INTEGRATED MATH 4
INTEGRATED MATH 5
PRE-CALCULUS
PRE-CALCULUS / HONORS
INTRODUCTORY STATISTICS
TRIGONOMETRY/ HONORS

NATURAL/PHYSICAL SCIENCE

AP BIOLOGY
AP CHEMISTRY (LAB)
AP PHYSICS (LAB)
ASTRONOMY & METEOROLOGY
BIOLOGY / LRC
BIOLOGY (LAB)
CHEMISTRY (LAB)
CONTEMPORARY ENVI ISSUES
ENVIRONMENTAL SCIENCE
ESSENTIALS OF CHEMISTRY
ESSENTIALS OF PHYSICS
GEOLOGY
HONORS CHEMISTRY (LAB)
HONORS PHYSICS (LAB)
HUMAN ANATOMY & PHYSIOLOGY(LAB)
PHYSICAL SCIENCE / LRC
PHYSICS (LAB)
SCIENCE INQUIRY
ZOOLOGY (LAB)

SOCIAL SCIENCE

ABNORMAL PSYCHOLOGY
AMERICAN GOVERNMENT
AMERICAN GOVERNMENT/ ADV
AMERICAN GOVERNMENT/ LRC
AP GOVERNMENT & POLITICS
AP MACROECONOMICS
AP MICROECONOMICS
AP UNITED STATES HISTORY
CONTEMP SOC PROBLEMS
CURRENT GLOBAL ISSUES
ECONOMICS
ECONOMICS / LRC
INTRO PSYCHOLOGY
SOCIOLOGY
US HISTORY 1 (CONTEMP)
US HISTORY 1 / LRC
US HISTORY 2 (CONTEMP)
US HISTORY 2 / LRC
US HISTORY 3 (CONTEMP)
WORLD STUDIES / WORLD HISTORY
WORLD STUDIES / WORLD HISTORY / LRC

ADDITIONAL CORE

FRENCH 1
FRENCH 2
FRENCH 3
FRENCH 4
FRENCH 5
FRENCH 6
GERMAN 1
GERMAN 2
GERMAN 3
GERMAN 4
GERMAN 5
GERMAN 6
GERMAN CONVERSATION &
COMPOSITION
INTERMEDIATE FRENCH GRAMMAR
SPANISH 1
SPANISH 2
SPANISH 3
SPANISH 4
SPANISH 5
SPANISH 6

CAREER FOCUSED EDUCATION

Planning for Your Future

Students at Lake Orion High School complete 12.0 credits of electives. It is the district's goal for students to use those electives as an opportunity to develop the skills that will empower them for their future.

One of the most effective ways to help our students navigate among thousands of different occupations is Career Pathways. These are six broad groupings of careers that share similar characteristics and whose employment requirements call for many common interests, strengths, and competencies. The groupings encompass the entire spectrum of career options, providing opportunities for all students and all ability levels.



Arts and Communication – Occupations in this career pathway are related to the creative, visual craft, and performing arts. This pathway includes careers such as graphic, interior, and fashion design; writing; film; fine arts; journalism; language; media; advertising; public relations; and music.



Business Management, Marketing, and Technology – Occupations in this career pathway are related to the business environment: administration, management, marketing and sales. This pathway includes entrepreneurship, sales, marketing, computer/information systems, finance, accounting, personnel, economics and management.



Engineering/Manufacturing and Industrial Technology – Occupations in this career pathway are related to the technology necessary to design, develop, install and maintain electrical, mechanical and structural systems. This career pathway includes engineering, manufacturing, construction, and related technologies.



Health Sciences – Occupations in this career pathway are related to the diagnosis and treatment of diseases, disorders and injuries, laboratory technology and therapy. This pathway includes medical practice; research; laboratory technology; physical, occupational and speech therapies; disease prevention; alternative medicine; and veterinary science.

Human Services – Occupations in this career pathway are related to the hospitality, personal and customer services; social services; legal services; and protective services. This pathway includes education, government, law and law enforcement, leisure and recreation, military, religion, childcare, social services and personal (beauty) services.



Natural Resources and Agriscience – Occupations in this career pathway are related to the natural sciences, agriculture and the environment. This pathway includes agricultural sciences, earth sciences, environmental sciences, fisheries, forestry, horticulture and wildlife.

How to make Career Pathways work for you:

1. On the next few pages, you will find charts indicating LOHS electives associated with each career pathway.
2. You will find a 4-Year Plan Worksheet on page 13 that includes all required courses and blank spaces which allow you to write in your own electives.
3. As you plan your schedule, try to include some electives from your pathway; use this as a time to explore. If you are torn between more than one pathway, take an elective from each. This will help you to better define your career interests, and you can focus on your main pathway in later years.
4. If you are not sure which electives would be most appropriate, ask questions. Your teachers, counselors, and parents are there to help you.

SCHEDULING – General Information

SCHEDULING - Requirements

- All students must have a full schedule (4.0 credits per semester/8.0 credits for the school year).
- Students attending Oakland Technical Center will be attending each program for half the day and will be allotted four (4) credits per academic year.
- **Some courses may be repeated.** Credit earned would be elective credit. These courses include Drama Theatre, Debate, Marketing Management, Newspaper, Journalism, Yearbook, Leadership, Television Production Workshop, Vocal and Instrumental Music and Advanced Placement Art Portfolio.
- **Successful completion of each required course is mandatory for graduation.**
- **Transfer** students in grades 9-12 having successfully completed a Radio-Speech, Television-Speech, Television Production, Debate or Forensics course at their preceding high school will have achieved the Lake Orion High School speech requirement.
- **Transfer** students will receive credit for the total number of credits granted by their sending school (excluding religious education and most religious history courses).
- **Home schooled** students will receive credit for the total number of credits granted only if they were from a recognized, accredited program.

The formula for determining transfer students' graduation credit requirements will be:

Total number of credits possible (from sending school)	+	Total number of credits possible (from Lake Orion)	=	Total number credits possible for graduation
Total number credits possible, minus 2 elective credits = Total credits required for graduation				

SCHEDULING – Special Considerations

Independent Study - Independent Study is an opportunity for a student to pursue more intensive study in a specific discipline above and beyond the general curriculum in any particular subject area.

- An independent study candidate must begin his/her plans **two terms before** the independent study term takes place.
- Independent study should be considered after all areas of existing curriculum have been explored.
- Students must complete independent study guidelines. Forms must be requested from and discussed with the student's counselor.
- Student and teacher must write up a complete independent study proposal.
- All paperwork must be submitted and approved following all independent study guidelines and deadlines, as stated on the form.
- Independent Study students must complete the Independent Study Reporting Form on or before the final exam in order to receive credit for the course.

***Note:** Independent study students will receive a letter grade.

The following departments are approved for Independent Study:

- Business and Communication Technology
- Family & Consumer Science
- Fine Arts (including Art, Drama, Vocal and Instrumental Music)
- Language Arts
- Mathematics
- Science
- Social Studies

Pass/Fail Grading—Students must request pass/fail grading from their guidance counselor, **prior** to the start of the course.

- A maximum of one (1) pass/fail credit may be earned during the four year's of high school.
- ~~• Special circumstances, i.e. long term illness, may warrant pass/fail grading.~~

***NCAA Note**—Many colleges and universities define a “pass” as a D- grade in reconfiguring an applicant’s GPA. The NCAA recognizes pass/fail grades for satisfying core-curricular requirements, however the NCAA Clearinghouse will assign the course the lowest passing grade at the high school for pass/fail classes.

SCHEDULING – Additional Information

Application Process - Student requests an application from the main office or course instructor, completes the application and returns by the deadline. Acceptance into the course is decided by the instructor.

Audition Process - For many performing arts courses, i.e. Vocal and Instrumental Music, an audition is required. Contact the instructor for information regarding the audition schedule.

Availability - Courses are not automatically offered every year. Courses placed in the master schedule are based upon sufficient student demand and teacher availability, as determined by administration.

Honors/Advanced Placement Program - Admission into this option may be based on the following criteria: available openings, test scores, work samples, grades, application and/or completion of prerequisite courses. Once admitted into the program, students need not reapply. Continuation is based upon academic performance and student’s interest.

Schedule Adjustments — Master schedule development and staff positions are based upon the students’ course selections. Therefore, **schedule adjustments will be honored ONLY for computer errors or academically based reasons.**

- Students must request a schedule adjustment form from their counselor. The completed form with clear rationale and parent signature must be returned to their counseling office. Parent signature does not guarantee that the schedule change will be approved.
- The schedule adjustment committee will vote whether or not to approve the schedule adjustments.
- Student must continue attending the class(es) scheduled until notified otherwise by their counselor.

The philosophy of the Lake Orion High School’s Schedule Adjustment Committee is:

- A minimum of 50% of each term’s classes are considered core curriculum and challenge their academic potential.
- Students should have at least one mathematics course and one science course each year, including their senior year.
- Students taking Honors or Advanced Placement courses should work to their ability and continue within that level of coursework.
- Although we want our students to be well-rounded individuals inside and outside of the classroom, their first responsibility is their core academics.

ELECTIVES

* Courses with (*) in front of the name would fulfill the additional 0.5 credit for the Visual, Performing, or Applied Arts graduation requirement.

+ Courses with (+) in front of the name would fulfill the “Senior Math-Related Course” graduation requirement.

Course Title	# of Credits	Grade Offered	Pre-Requisite	Page #
<u>ADJUNCT COURSES</u>				
ACT Prep	.5	11	None	21
<u>BUSINESS & COMMUNICATIONS</u>				
<u>Business</u>				
+ Accounting 1	1.0	10, 11, 12	None	22
+ Accounting 2	1.0	11, 12	Accounting 1	22
Business Law	.5	9, 10, 11, 12	None	22
Contract Law	.5	9, 10, 11, 12	Business and Personal Law 1	22
Entrepreneurship	.5	11, 12	None	22
Independent Study	.5	11, 12	Application	23
International Business	.5	11, 12	None	23
Marketing Concepts	1.0	10, 11, 12	None	23
Marketing Management	1.0	10, 11, 12	Marketing Concepts	23
<u>Computers</u>				
AP Computer Science (not offered 2011-2012)	1.5	11, 12	Computer Programming 1	23
Business Processes and Operations	.5	10, 11, 12	Business Foundation Skills	23
* Business Operations: Publications	.5	10, 11, 12	Business Foundation Skills	24
* Business Operations: Web	.5	11, 12	Business Foundation Skills	24
Computer Applications	.5	9, 10, 11, 12	Business Foundation Skills	24
Computer Programming 1	.5	9, 10, 11, 12	Business Foundation Skills	24
Computer Programming 2	.5	10, 11, 12	Computer Programming 1	24
C++1	.5	10, 11, 12	Computer Programming 1	24
Database Fundamentals	.5	10, 11, 12	None	24
Independent Study in Computers	.5	12	Application	24
Software Trends	.5	11, 12	Business Foundation Skills	25
<u>ENGLISH/LANGUAGE ARTS</u>				
<u>Communication Arts</u>				
* Broadcast Communications 1	.5	9, 10, 11, 12	None	29
* Broadcast Communications 2	.5	9, 10, 11, 12	Broadcast Communications 1	29
* Broadcast Communications 3	.5	10, 11, 12	Broadcast Communications 2	29
* Broadcast Communications 4	.5	10, 11, 12	Broadcast Communications 3	29
Debate	.5	10, 11, 12	None	29
Film	.5	11, 12	None	30
* Forensics	.5	10, 11, 12	Speech or instructor approval	30
Independent Study	.5	11, 12	Application	30
Journalism Yearbook	2.0	10, 11, 12	Application; Intensive Journalistic Writing	30
Mass Media	.5	9, 10, 11, 12	None	30
Newspaper	2.0	10, 11, 12	Intensive Journalistic Writing	30
* Television Production Workshop	2.0	11, 12	Application (and successful completion of Broadcasting Communications 1	31
* Video Projects 1	1.0	10, 11, 12	Broadcasting Communications 1	31
* Video Projects 2	1.0	11, 12	Video Projects 1	31
<u>Composition</u>				
Creative Writing	.5	10, 11, 12	None	31
Intensive Journalistic Writing	.5	9, 10, 11, 12	None	31

Course Title	# of Terms	Grade Offered	Pre-Requisite	Page #
<u>Literature</u>				
Classical Literature	.5	11, 12	None	31
Contemporary Poetry	.5	10, 11, 12	None	32

Humanities	.5	10, 11, 12	None	32
Increasing Vocabulary	.5	10, 11, 12	None	32
Mythology, Folklore, & Legend	.5	10, 11, 12	None	32
Reading Techniques	.5	9, 10, 11, 12	None	32

EXPERIENTIAL EDUCATION

Assets	.5	9, 10, 11, 12	None	33
Challenges	.5	11, 12	Application	33
Conflict Management	.5	9, 10, 11, 12	Assets	33
Trans	.5	9	None	33

FAMILY & CONSUMER SCIENCE

Child Development	.5	10, 11, 12	None	34
Face to Face	.5	11, 12	Teacher Cadet (Formerly Educational Paradigms)	34
Family Relations	.5	11, 12	None	34
Foods and Nutrition	.5	9, 10, 11, 12	None	34
Independent Living	.5	12	None	34
Independent Study	.5	12		34
Parenting	.5	9, 10, 11, 12	None	34
Teacher Cadet (Formerly Ed Paradigms)	1.0	11, 12	None	35

FINE & PERFORMING ARTS

Art

* Advanced Placement Portfolio Art	1.5	11, 12	Instructor approval	36
* Ceramics 1	.5	9, 10, 11, 12	None	36
* Ceramics 2	.5	9, 10, 11, 12	Ceramics 1	36
* Ceramics 3	.5	9, 10, 11, 12	Ceramics 2	36
* Ceramics 4	.5	9, 10, 11, 12	Ceramics 3	36
* Ceramics 5	.5	10, 11, 12	Ceramics 4	36
* Computer Art 1	.5	9, 10, 11, 12	Recommended: Drawing 1 or Design Concepts	36
* Computer Art 2	.5	9, 10, 11, 12	Computer Art	37
* Computer Art 3	.5	10, 11, 12	Computer Art 2	37
* Design Concepts	.5	9, 10, 11, 12	None	37
* Drawing 1	.5	9, 10, 11, 12	None	37
* Drawing 2	.5	9, 10, 11, 12	Drawing 1	37
* Drawing 3	.5	10, 11, 12	Drawing 2	37
* Drawing 4	.5	10, 11, 12	Drawing 3	37
* Independent Studies - Art	.5	11, 12	Completed all courses in area of study	37
* Jewelry & Metal Art	.5	9, 10, 11, 12	None	38
* Jewelry & Metal Art 2	.5	9, 10, 11, 12	Jewelry & Metal Art	38
* Jewelry & Metal Art 3	.5	9, 10, 11, 12	Jewelry & Metal Art 2	38
* Painting - Oils	.5	9, 10, 11, 12	Drawing 1	38
* Painting - Portraits	.5	10, 11, 12	Drawing 1	38
* Painting – Watercolors	.5	9, 10, 11, 12	Drawing 1	38
* Photography 1	.5	10, 11, 12	Design Concepts or Drawing 1	38
* Raku Pottery	.5	9, 10, 11, 12	Ceramics 2	39
* Raku Pottery 2	.5	9, 10, 11, 12	Raku 1	39
* Sculpture	.5	9, 10, 11, 12	None	39

Dance

* Dance (Not offered in 2011-2012)	.5	9, 10, 11, 12	None	39
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Drama

* Drama Theatre Arts	1.0	9, 10, 11, 12	Drama Workshop	39
* Drama Workshop	.5	9, 10, 11, 12	None	39
* Fine Arts Block	1.0	10, 11, 12	None	39
* Independent Study - Fine Arts	.5	11, 12	Completed all courses in area of study	40

Course Title

**# of
Terms**

**Grade
Offered**

Pre-Requisite

**Page
#**

Music

* Campus Choir	1.0	9, 10, 11, 12	None	40
* Chamber Choir	2.0	10, 11, 12	Audition	40
* Chorale	2.0	10, 11, 12	Audition	40

* Concert Choir	2.0	10, 11, 12	Audition	40
* Campus Band	1.0	9, 10, 11, 12	8 th Grade Band	41
* Concert Band	1.5	9, 10, 11, 12	Audition for 9 th graders	41
* Exploring Popular Music	.5	9, 10, 11, 12	None	41
* Independent Study - Music	.5	11, 12	Completed all courses in area of study	41
* Jazz Band	1.0	9, 10, 11, 12	Teacher Approval	41
* Marching Band	.5	9, 10, 11, 12	Audition	41
* Music Concepts	.5	10, 11, 12	Prior music knowledge	40
* Symphonic Band	1.5	9, 10, 11, 12	Audition	42
* Wind Ensemble	1.5	10, 11, 12	Audition	42

INDUSTRIAL TECHNOLOGY

+ * Architectural Design 1	1.0	10, 11, 12	CAD 2	45
+ Auto Technology 1	1.0	10, 11, 12	None	43
+ Auto Technology 2	1.0	10, 11, 12	Auto Technology 1	43
+ Auto Technology 3	1.0	11, 12	Auto Technology 2	43
+ * CAD 1 – Beginning	.5	9, 10, 11, 12	None	44
+ * CAD 2 – Intermediate	.5	9, 10, 11, 12	CAD 1 or Drafting 1	44
+ * CAD – Advanced	1.0	12	Mech Design 2 or Arch Design 1	45
+ Engineering Technology 1	.5	9, 10, 11, 12	None	45
+ Engineering Technology 2	.5	9, 10, 11, 12	Engineering Technology 1	46
+ * Mechanical Design 1	1.0	10, 11, 12	CAD 2	44
+ * Mechanical Design 2	1.0	11, 12	Mechanical Design 1	45
+ Principles of Technology 1	1.0	10, 11, 12	None	46
+ Principles of Technology 2	1.0	10, 11, 12	Principles of Technology 1	46
+ Team Technology Projects	1.0	11, 12	Teacher Approval	46

MATHEMATICS

+ Advanced Algebra	1.5	9, 10, 11, 12	Algebra 1	48
+ Algebra 1	1.5	9, 10, 11, 12	8 th grade Concepts in Algebra or teacher recommendation	48
+ AP Calculus	1.5	11, 12	Pre-Calculus Honors or teacher recommendation	48
+ AP Statistics	1.0	10, 11, 12	Pre-Honors Trigonometry or Geometry	48
+ Calculus	1.0	11, 12	Pre-Calculus	48
+ Geometry	1.0	9, 10, 11, 12	Algebra 1	48
+ Honors Advanced Algebra	1.0	9, 10, 11, 12	Honors Geometry	48
+ Honors Geometry	1.0	9, 10, 11, 12	8 th grade Algebra 1	49
+ Honors Pre-Calculus	1.0	10, 11, 12	Honors Trigonometry	49
+ Honors Trigonometry	1.0	9, 10, 11, 12	Honors Adv. Algebra & Honors Geometry	49
+ Independent Study	.5	10, 11, 12	Application process	49
+ Integrated Mathematics 1	1.0	9, 10, 11, 12	Pre-Algebra	49
+ Integrated Mathematics 2	1.0	9, 10, 11, 12	Integrated Mathematics 1	49
+ Integrated Mathematics 3	1.0	9, 10, 11, 12	Integrated Mathematics 2	49
+ Integrated Mathematics 4	1.0	9, 10, 11, 12	Integrated Mathematics 3	49
+ Integrated Mathematics 5	.5	9, 10, 11, 12	Integrated Mathematics 4	49
+ Integrated Mathematics 6	1.0	9, 10, 11, 12	Integrated Mathematics 5	49
+ Integrated Mathematics 7	1.0	9, 10, 11, 12	Integrated Mathematics 6	50
+ Introductory Statistics	.5	9, 10, 11, 12	Algebra 1 or Integrated Math 5	50
+ Math Lab	.5	9, 10	Enrolled in Integrated Math 1 or Pre-Algebra and referral by counselor or teacher	50
+ Numbers, Games & Heroes	.5	12	Advanced Algebra or Integrated Math 4	50
+ Pre-Algebra	1.0	9, 10, 11, 12	None	50
+ Pre-Calculus	1.0	10, 11, 12	Geometry and Advanced Algebra	50

Course Title

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PHYSICAL EDUCATION

Aerobic Fitness 1	.5	9, 10, 11, 12	Required Physical Education class	51
Aerobic Fitness 2	.5	10, 11, 12	Aerobic Fitness 1	51
Basic Swimming	.5	9, 10, 11, 12	Required Physical Education class	51

Conditioning & Strength Training 1	.5	9, 10, 11, 12	Required Physical Education class	51
Conditioning & Strength Training 2	.5	9, 10, 11, 12	Strength Training & Conditioning 1	51
Lifeguard Training	.5	10, 11, 12	Red Cross certification or teacher approval	51
Lifetime Fitness Activities 1	.5	9, 10, 11, 12	Required Physical Education class	52
Lifetime Fitness Activities 2	.5	9, 10, 11, 12	Lifetime Fitness Activities 1	52
Sports Conditioning 1	.5	9, 10, 11, 12	Required Physical Ed class & application process	52
Sports Conditioning 2	.5	9, 10, 11, 12	Sports Conditioning 1	52
Strength & Conditioning – Women only	.5	9, 10, 11, 12	Required Physical Education class	52
Team Sports 1	.5	9, 10, 11, 12	Required Physical Education class	52
Team Sports 2	.5	9, 10, 11, 12	Team Sports 1	52
Theory & Conditioning of Swimming	.5	9, 10, 11, 12	Teacher approval, Red Cross Level 5 Certification	52

SCIENCE

Astronomy & Meteorology	.5	10, 11, 12	None	54
AP Biology	1.5	10, 11, 12	Chemistry or Honors Chemistry	54
AP Chemistry	1.5	10, 11, 12	Chemistry or Honors Chemistry	54
AP Physics	1.5	11, 12	Honors Physics	54
Chemistry	1.0	9, 10, 11, 12	Biology and successful completion or having earned 1 cr in Integ 2, Alg 1 or Honors Geometry	54
Chemistry du Jour	1.0	10, 11, 12	Chemistry or Honors Chemistry	54
Conceptual Physics	1.0	10, 11, 12	Biology, Integrated 1 or Algebra 1	55
Environmental Science	.5	9, 10, 11, 12	Biology	55
Essentials of Chemistry	.5	9, 10, 11, 12	Biology	55
Essentials of Physics	.5	9, 10, 11, 12	Biology	55
Geology	.5	10, 11, 12	None	55
Honors Chemistry	1.0	9, 10, 11, 12	Successful completing or having earned 1 credit in Algebra 1 or Honors Geometry	55
Honors Physics	1.0	10, 11, 12	Biology and Advanced Algebra	55
Human Anatomy & Physiology	1.0	11, 12	Biology	56
Independent Study	.5	11, 12	Application	56
Scientific Inquiry	.5	9, 10, 11, 12	Biology and Intro to Statistics or AP Statistics	56
Zoology	1.0	10, 11, 12	Biology	56

SOCIAL STUDIES

Abnormal Psychology	.5	11, 12	None	57
AP Government & Politics	1.0	11, 12	Application	57
+ AP Macroeconomics	.5	11, 12	Economics or AP Microeconomics	58
+ AP Microeconomics	.5	11, 12	Social Studies Teacher Signature	58
AP Psychology	.5	11, 12	Introduction to Psychology, Part 1	58
AP United States History	1.0	10, 11, 12	Application	58
Contemporary Social Problems	.5	10, 11, 12	None	58
Current Global Issues	.5	12	None	59
Independent Study	.5	11, 12	Application	59
Introduction to Psychology, Part 1	.5	9, 10, 11, 12	None	59
Introduction to Psychology, Part 2	.5	9, 10, 11, 12	Introduction to Psychology, Part 1	59
Introduction to Sociology	.5	10, 11, 12	None	59
Leadership Develop. Workshop	1.0	9, 10, 11, 12	Application	59
+ Money and Investments	.5	11, 12	Economics	60
Twentieth Century American Popular Culture	.5	10, 11, 12	None	60

Course Title	# of Terms	Grade Offered	Pre-Requisite	Page #
<u>WORLD LANGUAGE</u>				
French 1	1.0	9, 10, 11, 12	None	66
French 2	1.0	9, 10, 11, 12	French 1	66
Intermediate French Language and Culture	1.0	9, 10, 11, 12	French 2	66
Intermediate French Grammar & Literature	1.0	9, 10, 11, 12	French 2	66

(Not offered in 2011-2012)

Advanced French Language and Culture	1.0	9, 10, 11, 12	Intermediate French Language & Culture and Intermediate French Grammar & Literature	66
Advanced French Grammar and Literature (Not offered in 2011-2012)	1.0	9, 10, 11, 12	Intermediate French Language & Culture and Intermediate French Grammar & Literature	66
German 1	1.0	9, 10, 11, 12	None	67
German 2	1.0	9, 10, 11, 12	German 1	67
German Conversation and Composition (Not offered in 2011-2012)	1.0	9, 10, 11, 12	German 2	67
German Lang & Culture for Professions	1.0	9, 10, 11, 12	German 2	67
Adv German Grammar & Composition (Not offered in 2011-2012)	1.0	9, 10, 11, 12	Advanced Topics of German Lang & Culture	67
Adv Topics in German Lang & Culture (Not offered in 2011-2012)	1.0	9, 10, 11, 12	German Language & Culture for Professions AND German Conversation & Composition	
Japanese 1 (Not offered in 2011-2012)	1.0	9, 10, 11, 12	None	67
Japanese 2 (Not offered in 2011-2012)	1.0	10, 11, 12	Japanese 1	68
Modern Language & Technology	.5	9, 10, 11, 12	Two years of a modern language	68
Spanish 1	1.0	9, 10, 11, 12	None	68
Spanish 2	1.0	9, 10, 11, 12	Spanish 1	68
Spanish 3	1.0	9, 10, 11, 12	Spanish 2	68
Spanish 4	1.0	9, 10, 11, 12	Spanish 3	68
Spanish 5	1.0	9, 10, 11, 12	Spanish 4	68
Spanish 6	1.0	9, 10, 11, 12	Spanish 5	68

OAKLAND SCHOOLS TECHNICAL

Northeast Campus

+ *	Business Management, Marketing & Technology	2.0	11, 12	Application	71
+ *	Construction Technology	2.0	11, 12	Application	71
+ *	Cosmetology	2.0	11, 12	Application	71
+ *	Culinary Arts/Hospitality	2.0	11, 12	Application	71
+ *	Engineering/Emerging Technologies	2.0	11, 12	Application	72
+ *	Health Sciences	2.0	11, 12	Application	72
+ *	Transportation Technology	2.0	11, 12	Application	72

Northwest Campus

+ *	Biotechnology & Environmental Science	2.0	11, 12	Application	73
+ *	Business Management, Marketing & Technology	2.0	11, 12	Application	73
+ *	Construction Technology	2.0	11, 12	Application	73
+ *	Culinary Arts/Hospitality	2.0	11, 12	Application	73
+ *	Engineering/Emerging Technologies	2.0	11, 12	Application	74
+ *	Health Sciences	2.0	11, 12	Application	74
+ *	Transportation Technology	2.0	11, 12	Application	74
+ *	Visual Imaging Technology	2.0	11, 12	Application	74

COURSE DESCRIPTIONS ADJUNCT COURSES

**ACT PREP
0.5 credit, grade 11**

ACT Prep Class is designed to help students improve scores on standardized tests. Each student takes the ACT to collect baseline data in Reading, English, Science, and Math subsections. They then learn test taking strategies, take several practice tests in each subsection, and build a portfolio showcasing their improvement.

BUSINESS & COMMUNICATIONS TECHNOLOGY

BUSINESS

ACCOUNTING 1

1.0 credit, grades 10-12 (Meets 0.5 elective math credit and 0.5 elective computer credit)

Accounting prepares students for a variety of careers in the accounting field. The monthly dollars and cents of a business will be tracked throughout the accounting system, ending with the financial statement analysis and closing down the ledger. Financial information will be processed both manually and with the use of accounting and spreadsheet software. Upon completion of this class, students will possess the skills to meet entry-level job classifications in the accounting field. **Articulation may be available through Baker College with successful completion (B or better) of Accounting 1.**

ACCOUNTING 2

1.0 credit, grades 11-12

Prerequisite: Accounting 1. Students in advanced accounting will learn to analyze financial records and prepare fiscal period reports. Partnerships, corporations, cost accounting and payroll procedures will also be covered. Students will increase their knowledge and skills using accounting software to solve and compliment accounting tasks. Current business trends are discussed and the stock market will be explored. Successful completion of this course will prepare students for an accounting/business curriculum at the college level. **Articulation may be available through Baker College with successful completion (B or better) of Accounting 2.**

BUSINESS FOUNDATION SKILLS (formerly Careers, Skills & Technology)

1.0 credit, grade 9 (REQUIRED) (0.5 business credit and 0.5 computer credit)

Utilizing career, employability and technology skills, students will understand the concepts, strategies, and systems used to obtain and convey ideas and information in a business setting. Students will understand the economic principles and concepts fundamental to business operations. After exploring several career pathways, students will design a four-year educational plan that maximizes their future goals. **Articulation may be available through Baker College with successful completion (B or better) of Business Foundation Skills.**

BUSINESS LAW (formerly Business & Personal Law 1)

0.5 credit, grades 9-12

This course will give the student a basic understanding of the legal rights and responsibilities as they begin to assume roles as citizens, workers, and consumers in their communities and society. Students will be able to analyze the relationship between ethics and the law, describe sources of the law, and describe the structure of the court system, classifications of procedural law and the different classifications of substantive law. An introduction to the elements of contract law is also covered.

CONTRACT LAW (formerly Business & Personal Law 2)

0.5 credit, grades 9-12

Prerequisite: Business and Personal Law 1 or Business Law. This advanced course in business law continues with an in-depth look at Contract Law, which is the most fundamental of all laws. Topics will include offer and acceptance, assent, consideration, the legal capacity to contract, marriage and divorce, consumer protection and bankruptcy.

Articulation may be available through Baker College with successful completion (B or better) of Contract Law.

ENTREPRENEURSHIP

0.5 credit, grades 11-12

This course clarifies the concepts, skills, information, attitudes, and alternative that are relevant for start-up and early-stage entrepreneurs. It provides the perspectives needed to make better decisions and thereby positively influences the odds of organizational success. What, for example, are your strengths, weaknesses and goals as an entrepreneur? What environmental condition do you face that will shape your venture? How do you develop out-of-the box ideas and turn those ideas into real business opportunities? How do you focus resources and gain support from critical constituencies? What is required to assemble and lead a winning team toward your dreams? This course provides the information necessary to address these issues and position yourself for success. **Articulation may be available through Baker College with successful completion (B or better) of Entrepreneurship.**

INDEPENDENT STUDY

0.5 credit, grades 11-12

Prerequisite: Application. This course is designed for the student in grades 11-12 who desire a more intensive study in a particular discipline than the general curriculum provides. Before the term begins, each student must submit in triplicate, a work-study plan for the term signed by his/her parents/guardian. Upon approval, copies will be held by the student, the teacher and their counselor. Weekly student-teacher conferences will be arranged to monitor the student's progress. The final project may be evaluated by the entire department before a grade is granted.

INTERNATIONAL BUSINESS

0.5 credit, grades 11-12

This course is designed for the student who wants to learn more about the multi-national business world. Topics covered include the American and foreign stock exchanges, cultures, business ethics, international trade and business terminology that relate to our rapidly changing global society. Activities may include field trips and guest speakers.

MARKETING CONCEPTS

1.0 credit, grades 10-12

Marketing Concepts involves hands-on projects in addition to instruction in the areas of marketing including: business and marketing concepts, salesmanship, economics, business math, promotion (advertising and display), channel management, financing, human relations and communication. Students are encouraged to join DECA. **Articulation may be available through Baker College with successful completion (B or better) of Marketing Concepts.**

MARKETING MANAGEMENT

1.0 credit, grades 10-12

Prerequisite: Marketing Concepts. Students will operate the school store and further their knowledge of marketing through management projects. Units of study include: promotion, management, channel management, marketing math, customer relations and market planning. DECA participation is encouraged through various activities. Participation in the store outside of class hours may be required on a limited basis. This course may be repeated for additional credit.

PERSONAL FINANCE AND CONSUMER ECONOMICS

0.5 credit, grade 12 (REQUIRED)

Through the exploration of personal finance, students will learn the fundamentals of business operations, accounting systems, solvency and risk. Students will understand the tools, strategies and systems used to maintain, monitor, control and plan the use of financial resources, both in business and personal ventures. To prepare for success beyond high school, students will refine their interview, communication and presentation skills. Completion of the Career Focused Education portfolio along with preparation of the exit interview will be conducted.

COMPUTERS

AP COMPUTER SCIENCE (Not offered in 2011-2012)

1.5 credits, grades 11-12

Offered every other year

Prerequisite: Computer Programming 1. This course is specifically designed to meet the requirements of the Computer Science A advanced placement program. Students who enroll should have a solid foundation in computer technology, be highly motivated and responsible. Topics will include: components of the Java language, classes, objects, methods, arrays, recursion, abstract data types, data structures, applets, and Swing. Students have the option of taking the AP test in the spring.

BUSINESS PROCESSES AND OPERATIONS

0.5 credit, grades 10-12

Prerequisite: Business Foundation Skills. Business Processes and Operations is the ability to process information, prioritize information needs and produce documents for day-to-day business operations. This course is valuable to students interested in pursuing careers in business. Students will gain experience practicing and understanding the importance of Legal Service Proposal requests and applying ethics in the workplace. Students will demonstrate the necessary skills of operating a business by completing a business simulation which uses these skills: research, planning, organizing, training employees, budgeting, customer service, quality control, and communication skills. **Articulation may be available through Oakland Community College and Baker College with successful completion (B or better) of Business Processes and Operations.**

BUSINESS OPERATIONS: WEB (formerly Web Page Design)

0.5 credit, grades 11-12

Prerequisite: Business Foundation Skills. Computer Applications recommended. Utilizing the elements of Web Page Design, students will learn the processes and systems implemented to monitor, plan and control the day-to-day activities required for continued business functioning. Through the creation of web sites, students will understand business's responsibility to know, abide by, and enforce laws, regulations, and ethical behavior that affect business operations and transactions. **Advance Placement Credit may be available through Baker College with successful completion (B or better) of Business Operations: Web.**

BUSINESS OPERATIONS: PUBLICATIONS (formerly Graphic Information Design Management)

0.5 credit, grades 10-12

Prerequisite: Business Foundation Skills. Computer Applications is recommended. Business Operations: Publications teaches the practice of gathering, structuring, and presenting information utilizing graphics and text using digital mediums in relation to business environments. Students will research and initiate a business plan specific to a business of their own design, utilize project management processes to conduct a business project, understand the nature of business to show its contributions to society, implement purchasing practices to obtain business supplies and maintain business records to facilitate business operations. **Articulation may be available through Baker College with successful completion (B or better) of Business Operations: Publications.**

COMPUTER APPLICATIONS

0.5 credit, grades 9-12

Prerequisite: Business Foundation Skills. Computer Applications is an excellent course for any student with an interest in computers, especially those considering college in the future. Computers are becoming more and more prevalent in education and business today, and it is imperative that students learn to use these resources properly. Students will complete this course with a fundamental understanding of computer operations and the Microsoft Office Suite (Word, Excel, PowerPoint, and Access). Highly successful students in this course may have the opportunity to test for Microsoft Certification. **Articulation may be available through Baker College with successful completion (B or better) of Computer Applications.**

COMPUTER PROGRAMMING 1

0.5 credit, grades 9-12

Prerequisite: Business Foundation Skills. This class is a beginning course in programming computers. Good program structure and problem solving will be stressed. Programs will be constructed using Microsoft Visual BASIC.NET. Topics include: using forms, doing arithmetic, using data, making decisions, attractive output, interactive programs, loops, arrays, and searching. **Articulation may be available through Baker College with successful completion (B or better) of Computer Programming1.**

COMPUTER PROGRAMMING 2

0.5 credit, grades 10-12

Prerequisite: Computer Programming 1. This class is a continuation in the study of computer programming. Microsoft Visual BASIC.NET will be used as the language. Topics will include: external files, menus, working with data, classes and objects, and adding controls to forms.

C++ 1 PROGRAMMING

0.5 credit, grades 10-12

Prerequisite: Computer Programming 1. This class is a continuing course in programming computers, using the C++ language. Good program structure and problem solving will be stressed. Programs will be constructed using Microsoft Visual C++. Topics include: using variables, doing arithmetic, using data, making decisions, attractive output, interactive programs, loops, arrays, and searching. **Articulation may be available through Baker College with successful completion (B or better) of C++1 Programming.**

DATABASE FUNDAMENTALS

0.5 credit, grades 10-12

Business models, data modeling, and database design will be studied while constructing Access databases. Students will also learn how to maintain database objects and to store, retrieve, and manipulate data using SQL.

INDEPENDENT STUDY IN COMPUTERS

0.5 credit, grade 11-12

Prerequisite: Application. This course is designed for the student in grade 12 who desire a more intensive study in a

particular discipline than the general curriculum provides. Before the term begins, each student must submit in triplicate, a work-study plan for the semester signed by his/her parents/guardian. Upon approval, copies will be held by the student, the teacher, and their counselor. Weekly student-teacher conferences will be arranged to monitor the student's progress. The final project may be evaluated by the entire department before a grade is granted.

SOFTWARE TRENDS

0.5 credit, grades 11-12

Prerequisite: Business Foundation Skills. Computer Applications is recommended. This course will provide a unique experience to students by allowing them to explore the latest computer technology and software. After learning the basics of a program, students will demonstrate their knowledge by utilizing problem solving and critical thinking skills to complete projects. Learning up-to-date software programs will enhance their computer ability and enable students to apply their skill in completing various tasks across the curriculum.

ENGLISH/LANGUAGE ARTS

Four and one-half (4.5) credits are required for Language Arts in grades 9-12.

English Language Arts 9 or Honors English 9 must be successfully passed before level 10 English classes are selected. Similarly, English Language Arts 10 or Honors English 10 must be successfully passed before the 11th and 12th grade required English courses are scheduled. This will assure students' having learned and worked on those skills expected for the MME tests. The 9th and 10th grade offerings are aligned with core curriculum and MME requirements.

REQUIRED SEQUENCES

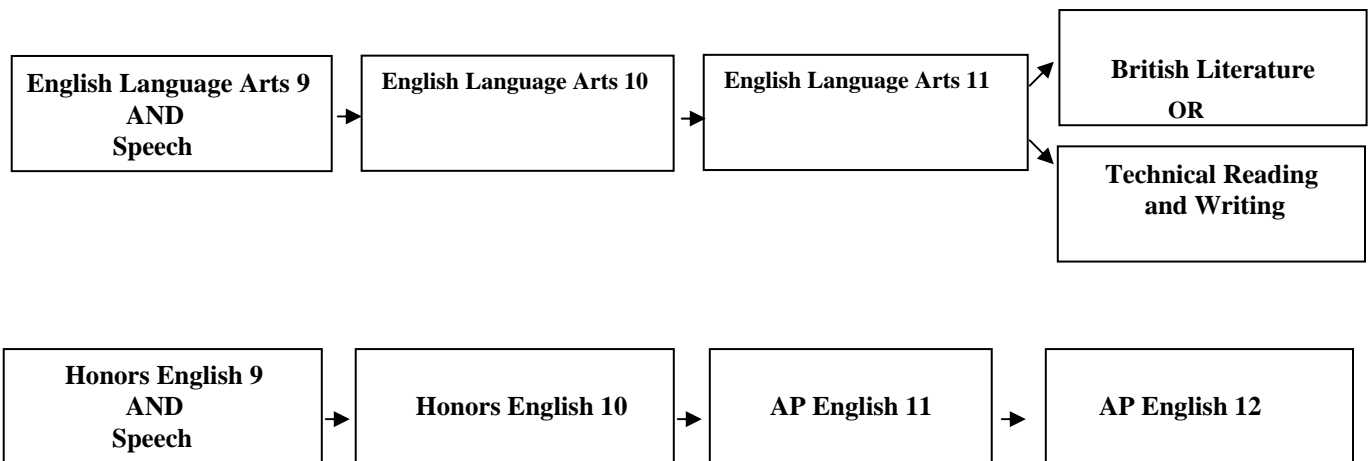
GRADES:

9

10

11

12



Admission into each honors/advanced placement course is based on the following criteria: “A” average in previous required English class and teacher recommendation. Admission is also based on available openings. Students will remain in the program as long as they maintain a “B” average. AP English 12 takes the place of British Literature or Technical Reading and Writing. Students enrolled in the Honors Program should not take these courses as electives. Students applying to Honors English 9 will complete an application process.

THE HONORS ENGLISH PROGRAM

Students must:

- **complete summer reading and writing assignments to be submitted on the pre-determined due date assigned by the Honors/AP English teacher.** Students who fail to complete the summer reading assignments **MUST** remain in their Honors/AP English course.
- possess the ability to read accurately and thoughtfully.
- discuss intelligently, listen well, and speak constructively.
- possess the willingness to accept criticism from both teacher and peers.
- exhibit a good language background with good grammar skills.
- be comfortable with two or three kinds of assignments going on simultaneously.
- meet all deadlines.
- maintain a “B” average or better throughout the Honors program.

Admission Into Honors English 9 Will Be Based On The Following:

- At least a “B” average in **all** academic subjects and an “A” average in English classes.
- Admission essay.
- Recommendations by an English teacher and a core curriculum teacher.
- Desire for exceptional challenge as evidenced by completion of application and writing assignments.
- Parental approval.
- Signed Honors/AP contract.
- Available openings.

REQUIRED ENGLISH

INTERDISCIPLINARY ENGLISH LANGUAGE ARTS 9 (Not offered in 2011-2012)

2.0 credits, grade 9 (1.0 credit for ELA 9, 0.5 credit for Speech, 0.5 credit for Study Skills elective)

This course is designed to incorporate the English 9 curriculum with a comprehensive study skills program for students who may benefit from learning additional organizational skills. The course includes thematic units such as Drama, Language as a Tool, Human Nature, Life Stories, and Science Fiction. These units focus on the areas of reading, composition, grammar, vocabulary and speech. Students will study the short story, poem, novel, play, non-fiction and media as distinct art forms exhibiting certain structural and thematic features that can be recognized and analyzed. Students will also be encouraged to discover and formulate their own unique and creative processes to the literature studied. The composition portion of the course presents a sequential treatment of the writing process from prewriting through revision. Instruction in the practical use of language including vocabulary study, grammar and mechanics will be explored. The speech component will include responses to class-related activities.

ENGLISH LANGUAGE ARTS 9

1.0 credit, grade 9

This two-term course highlights reading, composition, grammar and vocabulary. Students will study the short story, poem, novel, play, non-fiction and media. Composition instruction features a sequential treatment of the writing process from prewriting through revision. Instruction in the practical use of language including vocabulary study, grammar and mechanics is also provided. Literary works include Romeo and Juliet, Fahrenheit 451, Animal Farm, Lord of the Flies, Tuesdays with Morrie, and A Separate Peace.

HONORS ENGLISH 9

1.0 credit, grade 9

Entry into this class is made through an application process completed in the 8th grade. This two-term course, designed for the exceptional English student, covers composition, literature, grammar, and vocabulary at an advanced level. Writing assignments stimulate critical thinking and foster self-expression. Students will be required to examine what works and what does not work in their writing. Literature study concentrates on comprehension, interpretation and appreciation as students move rapidly through a wide variety of distinguished literary pieces. Grammar study will review the eight parts of speech as well as move into an examination of the structure of sentences. A connection between grammar and writing will be made. Expectations for student performance are high, and the course of study is rigorous. Multiple assignments occur simultaneously. A serious time commitment is needed to successfully complete all course work. The following works are typically covered in the course: Alexandre Dumas’ The Count of Monte Cristo, Charles Dickens’ Great Expectations, Ernest Hemingway’s The Old Man and the Sea, Sandra Cisneros’ The House on Mango Street, Harper Lee’s To Kill a Mockingbird, John Knowles’ A Separate Peace, Ray Bradbury’s Fahrenheit 451, Shakespearean Sonnets, Shakespeare’s Romeo and Juliet, Shakespeare’s A Midsummer Night’s Dream, Shakespeare’s The Taming of the Shrew, Thornton Wilder’s Our Town, Mitch Albom’s Tuesdays with Morrie, Leo Tolstoy’s The Death of Ivan Ilych, John Steinbeck’s Of Mice and Men, Oscar Wilde’s The Importance of Being Earnest, George Orwell’s Animal Farm, H.G. Wells’ The Time Machine, Jonathan Swift’s Gulliver’s Travels, Henry James’ The Turn of the Screw. **When the summer reading materials are handed out in June, the Honors (or Advanced Placement) English teacher will assign a due date for the return of the completed assignments. Students MUST submit all summer reading assignments by the pre-determined due date.**

ENGLISH LANGUAGE ARTS 10

1.0 credit, grade 10

Prerequisite: Successful completion of English 9. This course traces the development of American thought from the twentieth century to the present. Students will read and analyze a variety of literary works by American authors, including the novel, short story, poetry, and drama. The composition portion of the class will present a sequential treatment of the writing process from prewriting through revising. Instruction in the practical use of language, including vocabulary study,

grammar, and mechanics will also be provided. Literary works to be taught include The Catcher in the Rye, The Great Gatsby, Of Mice and Men, and A Raisin in the Sun.

HONORS ENGLISH 10

1.0 credit, grade 10

Prerequisite: Honors English 9 or teacher recommendation/"A" average in previous required English class.

Students pursue a rigorous curriculum in which they read a variety of American literature, discuss it analytically, and formulate ideas in their writing. Readings include nonfiction, short stories, drama, novels and poetry. The course is designed for students with a special interest in English. Students should be able to read rapidly and accurately and write with fluency and minimal language difficulties. Literary works covered include Mark Twain's The Adventures of Huckleberry Finn, John Steinbeck's The Grapes of Wrath, J.D. Salinger's The Catcher in the Rye, Barbara Kingsolver's The Bean Trees, Nathaniel Hawthorne's The Scarlet Letter, F. Scott Fitzgerald's The Great Gatsby, Tennessee Williams' The Glass Menagerie, Arthur Miller's Death of a Salesman, Kate Chopin's The Awakening, Julia Alvarez's In the Time of the Butterflies, Jack London's The Call of the Wild, Anzia Yezierska's Bread Givers, Cormac McCarthy's All the Pretty Horses, Ernest J. Gaines' A Lesson Before Dying, and Douglass' The Narrative of the Life of Frederick Douglass. **When the summer reading materials are handed out in June, the Honors (or Advanced Placement) English teacher will assign a due date for the return of the completed assignments. Students MUST submit all summer reading assignments by the pre-determined due date.**

ENGLISH LANGUAGE ARTS 11

1.0 credit, grade 11

Prerequisite: Successful completion of English 9 and English 10. The aim of this college preparatory class is both to teach students how to write effective essays and to explore 20th and 21st century world literature. The emphasis will be on writing a variety of essays (descriptive, narrative, instructional, analytical, critical, persuasive and literary) as well as on critical reading and analysis of literary works. Focus is on the process of writing, organization, sentence structure and word choice and becoming familiar with philosophical movements and important writers. Some grammar, punctuation and mechanics will be reviewed as needed to further the students' command of the English language. In addition, since this class is taken in the junior year, students explore careers and educational institutions. Novels taught include the Joy Luck Club and The Kite Runner.

AP ENGLISH 11

1.5 credits, grade 11

This three-term class prepares students to take the AP English Language and Composition test in May. Students will analyze and interpret samples of good writing, identifying and explaining an author's use of rhetorical strategies and techniques; apply effective strategies and techniques in their own writing; create and sustain arguments based on readings, research, and/or personal experience; demonstrate understanding and mastery of standard written English as well as stylistic maturity in their own writing; write a variety of genres and contexts, both formal and informal, employing appropriate conventions; produce expository and argumentative compositions that introduce a complex central idea and develop it with appropriate, specific evidence, cogent explanations, and clear transitions; and move effectively through the stages of the writing process, with careful attention to inquiry and research, drafting, revising, editing, and review. Literary works taught include Miles Corwin's And Still We Rise, Zora Neale Hurston's Their Eyes Were Watching God, Rachel Carson's Silent Spring, Russell Baker's Growing Up, Gabriel Garcia Marquez Chronicle of a Death Foretold, Toni Morrison's The Bluest Eye, Toni Morrison's Beloved, Thomas L. Friedman The World is Flat, Truman Capote's In Cold Blood, and Laura Hillenbrand's Seabiscuit. **When the summer reading materials are handed out in June, the Honors (or Advanced Placement) English teacher will assign a due date for the return of the completed assignments. Students MUST submit all summer reading assignments by the pre-determined due date.**

BRITISH LITERATURE

1.0 credit, grade 12

This course follows the development of British literature from the Anglo-Saxon period through the present day. Students will read several British novels and the works of the Romantic and Victorian poets. An argumentative research paper, essays, group and individual presentations and tests will serve as assessment tools. Literary works include Brave New World, Frankenstein, and Macbeth.

TECHNICAL READING AND WRITING

1.0 credit, grade 12

Technical Reading and Writing will address principles and techniques needed in technical reading and writing. Attention to nonfiction reading skills and construction of professional documents stressing format, content, and design comprise the class. Students will read Malcolm Gladwell's, The Tipping Point and Blink.

AP ENGLISH 12

1.5 credits, grade 12

In this literature and composition course, students will read intensively representative works from several genres and periods in world literature. Since the course will concentrate on the study of challenging works of recognized literary merit, students will be expected to engage in both the critical reading as well as in carefully written and verbal analyses of the subject matter presented. Writing assignments include practice in exposition, argument, critical analysis, personal narrative and fictional or poetic forms. Students should develop a sense of how style, subject and audience are related. The desired goals are the honest, concise and effective use of language; the organization of ideas in a clear, coherent and persuasive manner; and the careful scrutiny of literature which can be coordinated with the students' collateral and independent readings. Students enrolled in this course are expected to take the AP Exam in literature and composition offered by the College Board in May, which may result in academic credit and/or exemption from beginning level college courses. Literary works taught include Aldous Huxley's Brave New World, Geoffrey Chaucer's Canterbury Tales, Mary Shelley's Frankenstein, Shakespeare's MacBeth/Hamlet, Homer's The Iliad, Virgil's The Aeneid, Sophocles' Oedipus Rex, Aeschylus' Agamemnon, Beowulf, Sir Gawain, Song of Roland, Dante Alighieri's The Divine Comedy, Miguel de Cervantes Saavedra's Don Quixote, Gustave Flaubert's Madame Bovary, Chinua Achebe's Things Fall Apart, Joseph Conrad's Heart of Darkness, Thomas Moore's Utopia, John Milton's Paradise Lost, One Thousand and One Nights, and George Orwell's 1984. **When the summer reading materials are handed out in June, the Honors (or Advanced Placement) English teacher will assign a due date for the return of the completed assignments. Students MUST submit all summer reading assignments by the pre-determined due date.**

COMMUNICATION ARTS

BROADCAST COMMUNICATIONS 1

0.5 credit, grades 9-12

Broadcasting is the most powerful and influential means of communication known to man. Through simulated programming in our radio and television studios, you will learn the technical and performance techniques of broadcasting. You will begin to explore and analyze the history, evolution, and current status of broadcasting and its impact on our society. You will examine current broadcast programs and enhance your media literacy. This course serves as a prerequisite for the rest of the broadcasting and video classes. Additionally, this class fulfills the district and state graduation requirement in Visual, Performing, & Applied Arts.

BROADCAST COMMUNICATIONS 2

0.5 credit, grades 9-12

Prerequisite: Broadcast Communications 1 (which can be taken during the same school year). You will build upon the technical and performance concepts of television and radio communications. Experience what it takes to be a news anchor. Do you think you would be a great sportscaster or talk show host? This is an opportunity for you to try these roles and more. Additionally, you will continue to add to your knowledge of media literacy, and you will explore the impact of historical broadcasts. In addition, you will examine the next horizon of broadcasting including satellite radio and podcasting. This is a performance course and requires time spent writing and rehearsing.

BROADCAST COMMUNICATIONS 3

0.5 credit, grades 10-12

Prerequisite: Broadcast Communications 2 (which can be taken during the same school year). Now that you have learned the basic principles of radio and television communication, the level of difficulty rises. You'll add elements such as music, sound effects, and video editing. Furthermore, you will enhance your media literacy by examining the newscasts of local television stations. This class features longer productions and performances which will challenge your writing and performance abilities. You will also further explore the realm of podcasting and online video.

BROADCAST COMMUNICATIONS 4

0.5 credit, grades 10-12

Prerequisite: Broadcast Communications 3 (which can be taken during the same school year). This course enhances your understanding of the media through creation of original programming (television and/or podcasting) for a real audience; the Lake Orion community. Further analyze the radio, television and internet communication mediums by producing and directing original work. Will you learn to control the media, or will the media control you? This is a performance course and requires time spent writing and rehearsing.

DEBATE

0.5 credit, grades 10-12

This course teaches the logistics and strategies of the debate process. Students will examine the techniques used to logically work through an issue. They will also learn to use critical and analytical thinking, logical reasoning, skillful argumentation, library and computer research, and clear speaking skills.

FILM

0.5 credit, grades 11-12

Film has become a significant component of our culture, part of our individual and collective lives. Students will study the history of film in order for them to grasp an understanding of how films have trained us to observe the world, and the issues they illuminate. Film terminology, cinematic methods, stories, images, and the industry itself will be studied. Screen stars, writers, film directors, camera operators, sound technicians, gaffers gofers, and the tools of the trade will be introduced. After completion of this course, the student will be a more critical observer of films.

FORENSICS (Speech & Drama)

0.5 credit, grades 10-12

Prerequisite: Speech or instructor approval. This is a more advanced Communication Arts class focusing on student performances. Presentations require scripts to be memorized. A variety of performances will be used for literary analysis and oral interpretation. Some of the performance categories include sales, poetry, oratory, duo, extemporaneous, and dramatic interpretation.

INDEPENDENT STUDY

0.5 credit, grades 11-12

Prerequisite: Application Process. This course is designed for the student in grades 11-12 who desires a more intensive study in a particular discipline than the general curriculum provides. Before registration, each student must submit in triplicate, a work study plan for the term signed by his/her parent/guardian. Upon approval, copies will be held by the student, the teacher, and their counselor. Weekly student-teacher conferences will be arranged to monitor the student's progress. The final project may be evaluated by the entire department before a grade is granted. Students selecting this course must be able to work independently and responsibly.

JOURNALISM YEARBOOK

2.0 credits, grades 10-12

Prerequisite: Application process. Recommended: Intensive Journalistic Writing for all writers and editors and Photography 1 for all photographers. This class publishes the annual yearbook through student reporting, editing, photography and desktop publishing. Students are all expected to attend production/deadline days/nights announced throughout the year. Returning staff members are expected to move-up in position (i.e., from reporter to editor) and attend a summer camp before their second year. Qualifications considered: good attendance, ability to work independently, and above-average writing skills.

MASS MEDIA

0.5 credit, grades 9-12

As we make the transition into the Information Society it becomes vital to understand how information affects you and you affect it. Mass Media is for students who wish to gain a better understanding of mass media-newspapers, magazines, television, cinema, radio, advertising and the Internet. Students will learn to analyze news stories, features, editorials and reviews. They will learn to discover and appreciate unique and interesting viewpoints and ideas. Students will examine design techniques, photography, press law and history, and propaganda. Analytical, compositional and reflective skills will be stressed. This class is not designed as an introductory class for the newspaper or yearbook classes.

NEWSPAPER

2.0 credits, grades 10-12

Prerequisite: Intensive Journalistic Writing or teacher recommendation. This class publishes the high school newspaper through student reporting, editing, photography and desktop publishing. Students are all expected to report and write stories; individuals cannot be a photographer only. It is expected that the entire staff stays after school one day/night every-other-week to attend a production night. This time is set aside to design and layout the next issue. Qualifications considered: good attendance, ability to work independently, and above-average writing skills.

SPEECH

0.5 credit, grades 9-12 (REQUIRED)

Speech is a required class designed to develop self-confidence and improve communication skills. The communication experiences are attained through formal and informal speaking experiences. The course is designed to help students understand the relationship between language meaning and decision-making. The class will expose all the students to the various communication areas.

TELEVISION PRODUCTION WORKSHOP

2.0 credits, grades 11-12

Prerequisite: Application process and successful completion of Broadcasting 1. Television Production Workshop (TPW) is the cornerstone class of the Lake Orion High School broadcasting program. The TPW group has been recognized annually with awards at the state level, and students in the class are expected to exceed expectations while studying the techniques and disciplines of live TV production. Through their work, they improve personal communication, leadership skills, time management skill, and media literacy. TPW students actively and consciously write, view, speak and listen. Television production is a team effort, and TPW members have varied opportunities to practice skills needed for successful group dynamics. Multiple leadership chances arise for those who accept the challenge of directing and producing programs. Among many responsibilities, the TPW class produces programs for the school and community, including but not limited to “LO-AM” and the Memory DVD. TPW students are not required to perform in front of the camera, and TPW students are not required to have career goals in the broadcasting field. All LOHS sophomores and juniors are welcome to apply to the course.

VIDEO PROJECTS 1

1.0 credit, grades 10-12

Prerequisite: Broadcast Communications 1. Video Projects students study the disciplines and techniques of communicating through video. From brainstorming project ideas to the final product, all aspects of video production are featured. This includes camerawork, storyboarding, lighting, sound and editing. Short films and music videos are among the assigned projects. Students in this course are responsible for proper care and use of equipment assigned to them for the duration of the course. Video production is a team effort, and students have varied opportunities to practice skills necessary for successful group dynamics.

VIDEO PROJECTS 2

1.0 credit, grades 11-12

Prerequisite: A grade of at least 75% or higher in Video Projects 1 OR can be taken concurrently with TPW. Video Projects 2 provides dedicated students with a chance to work hard on meaningful projects. You will intensely study other video productions and gain further appreciation for the importance of this communication medium. This course is only meant for students who can work independently and want to further develop their video communication skills. A Video Projects 2 candidate must propose an outline of projects which he/she intends to accomplish as part of the class.

COMPOSITION

CREATIVE WRITING

0.5 credit, grades 10-12

If you write for pleasure, this course will help you improve your style and develop your talent. You will write various types of stories, descriptions, poems, and narratives. In addition, you will review the works of famous authors and will critique classmates' work.

INTENSIVE JOURNALISTIC WRITING

0.5 credit, grades 9-12

This course offers students the best of both English and journalism curricula: writing assignments which teach the clear, concise style of the journalist in editorials, features, columns, reviews, and rhetorical modes, as well as reading activities which demand higher-level thinking skills and analysis of both contemporary and classic literature from newspapers, magazines, journals, and books. Through much study, analysis, and practice, students will receive a thorough preparation for the Advanced Placement English Language and Composition Exam, college essays, post-secondary work, and future careers.

LITERATURE

CLASSICAL LITERATURE

0.5 credit, grade 11-12

Classical Literature will explore works from different periods of world history. Emphasis will be placed on Classical Greek and Roman literature, Literature of the Middle Ages and Early Renaissance, and Early American Literature. This course is highly recommended for those students wishing to pursue a career in any English or other liberal arts field in college.

CONTEMPORARY POETRY

0.5 credit, grades 10-12

Contemporary poetry takes a unique approach to 20th century works. Rather than hailing back to poetry classics and famous poets, students will be required to analyze poems, define their themes, imitate imagery and determine the message of modern-day, leading poets. With an eye on the somewhat established literary canon of “accepted poetry”, this class will center on multicultural works of the 1970’s to the present. In addition to studying established poets and their works, this course will also require students to utilize contemporary brainstorming and writing techniques; those used by poets of today. Students will recognize and utilize imagination and creativity. This study of poetry will become a springboard for writing personal poems and creative forms of self-expression.

HUMANITIES

0.5 credit, grades 10-12

This is a semester course for the college-bound student who enjoys a challenge. Great creators and thinkers express themselves through the written word, painting, sculpting, architecture, philosophy, film, music, dance, photography, and theatre. An attempt is made to recognize the interrelatedness of the arts and to appreciate and enjoy the beauty and importance of each to our lives. In a logical chronology, masterpieces of the various ages are studied. Trips to the Detroit Institute of Arts, and/or The Detroit Symphony, and various theatres are part of the class. Upon completion of this class, it is hoped that the student will recognize many concepts, personalities, and works of great men and women familiar to a well-educated person.

INCREASING VOCABULARY

0.5 credit, grades 10-12

This course offers insights, procedures and materials for a comprehensive study of language and vocabulary development.

The exercises are designed to familiarize the students with the types of vocabulary questions they are likely to encounter on pre-college examinations. Students will learn how words are created, how they multiply and how they change in meaning. Students will expand their vocabularies by examining a word in context, analyzing its structure (prefix, root, suffix), tracking its meaning in a dictionary and discovering its origin through its etymology. A brief history of the English language focusing on important people and events that helped to shape our vocabulary will acquaint the student with contributions made by mythology, literature and other languages. Collateral readings on the importance of language may include: *THE MIRACLE WORKER*, *PYGMALION* and *STRICTLY SPEAKING*. Most importantly, this course will teach students how to make learning new words a continuous lifelong activity.

MYTHOLOGY, FOLKLORE AND LEGEND

0.5 credit, grades 10-12

Ride the mythical horse Pegasus as Zeus guides him through the sky. Join the Hobbit on his adventure through mid-earth.

Explore the African legend of the hare and the hippo; and the thunder throwing Norse god, Thor; Leprechauns and such. This class delves into man’s quest for the answers to his being. It also deals with the lessons taught through legend and folklore. Create your own myths while becoming aware of common threads that run through all myths. Various books and sources will be used to broaden your view of man and his universe from Mexico to Japan; from Egypt to India; from Prometheus to Superman. Be ready to read, write, create and appreciate!

READING TECHNIQUES

0.5 credit, grades 9-12

This class provides an opportunity to improve your reading speed and comprehension. Techniques for reading more efficiently are included in this program to improve your study skills, vocabulary knowledge and listening ability.

EXPERIENTIAL EDUCATION

ASSETS

0.5 credit, grades 9-12

Prerequisite: Review and sign a “Course Information Sheet”. Conflict and problem solving are an inescapable part of our daily lives and an inevitable result of our highly competitive, complex, and stressful society. Learning how to effectively work with conflict and solve problems is an essential life skill needed by every person or group regardless of one’s age, social role, profession, cultural background, or beliefs. In “ASSETS”, students will practice managing intra and interpersonal conflicts throughout Lake Orion High School and learn that success and quality life depends on healthy people, families, organizations and their ability to manage conflict.

CHALLENGES

0.5 credit, grades 11-12

Prerequisite: Application process. The **CHALLENGES** program provides an experiential, adventure based approach to learning. Daily activities highlight the following: team cooperation, problem solving, self confidence, communication, motivation, responsibility, self reliance, critical thought, reflection, group discussion and journal writing. Most activities occur outside the traditional classroom using high and low rope elements. Student’s individual achievements are the basis for assessment.

CONFLICT MANAGEMENT

0.5 credit, grades 9-12

Prerequisites: Successful completion of “ASSETS”. Conflict Management continues the practices of “ASSETS” by expanding on conflict management, communication, and listening skills. Students will gain the opportunity to advance their skills by assisting peers within school to manage or resolve conflicts. Conflict Management is also a forum for creating and implementing solutions, plans, or activities to reduce negative situations like harassment and fighting in our school. Through effective practice, graduates of the Conflict Management program will be able to utilize their skills and experiences to help them continue managing intra and interpersonal conflicts.

>!< (TRANS)

0.5 credit, grade 9

>!< has been specially designed for 9th graders in order to prepare them for the challenges that lie ahead at Lake Orion High School. The focus of >!< is on easing the student’s transition to high school by increasing their inter/intra personal skills, promoting and developing effective group skills, and facilitating individual growth. By utilizing Lake Orion High School’s challenge course, students will partake in a variety of group initiative activities, goal setting, low ropes course elements, and reflection in order to facilitate learning on many levels. As a result, many connections with the student’s world both inside and outside of school may be developed and enhanced.

FAMILY AND CONSUMER SCIENCE

CHILD DEVELOPMENT

0.5 credit, grades 10-12

Child Development is a course that prepares students to understand the physical, social, emotional, and cognitive growth and development of children through the adolescent stage. Topics of student awareness, self reflection, and learning styles and needs will also be covered.

FACE TO FACE – Learning about Special Needs

0.5 credit, grades 11-12

Prerequisite: Teacher Cadet. (Formerly Educational Paradigms) This course is designed for students who wish to continue to explore the education field. Students will gain hands-on experience working in a classroom at the early childhood, elementary, or middle school level. Students will participate in many activities, including observing, tutoring, leading small groups, preparing a classroom, creating special projects, and eventually developing and teaching a lesson of their own. Students will also be responsible for turning in weekly attendance sheets, writing reflective journals, attending weekly class meetings and completing field experience portfolio.

FAMILY RELATIONS

0.5 credit, grades 11-12

Understanding yourself and others, parent-child relationships, sibling relationships and birth position, dating, marriage, consumer economics, parenthood, discipline and guidance are topics included for study in this class.

FOODS AND NUTRITION

0.5 credit, grades 9-12

This course is designed for students interested in the study of foods who have had little or no previous foods experience. In this course, students will learn the basics of food preparation, basic principles of cooking including correct measuring techniques, cooking terms, food sanitation and safety, and how to follow a recipe. Students will cook a variety of foods, including stir-fry, pasta, pancakes, pizza, yeast breads, casseroles, etc. Other topics of study include an in depth look at nutrition basics, health and wellness, meal planning, and a research project/demonstration on global foods. **Advance Placement Credit is available through Baker College with successful completion (B or better) of Foods and Nutrition.**

INDEPENDENT LIVING

0.5 credit, grade 12

Are you planning on living on your own? This course is designed to help students accomplish this in the best possible way. Emphasis will be placed on learning your legal rights at age of 18, cost budgeting involved in living on your own, wise housing choices, tips on buying and maintaining your wardrobe, meal planning for one, two or more people and how and when to shop for large ticket items. Other topics covered will be decision making, consumer rights, money management, choosing a roommate and tips on inexpensive decorating.

INDEPENDENT STUDY

0.5 credit, grades 11-12

Prerequisite: Application. This course is designed for the student in grades 11-12 who desire a more intensive study in a particular discipline than the general curriculum provides. Before the term begins, each student must submit in triplicate, a work-study plan for the term signed by his/her parents/guardian. Upon approval, copies will be held by the student, the teacher and their counselor. Weekly student-teacher conferences will be arranged to monitor the student's progress. The final project may be evaluated by the entire department before a grade is granted.

PARENTING

0.5 credit, grades 9-12

This course will help prepare students for the many issues they will face when they become parents. Topics of study will include learning about children, learning about families, effective parenting skills, teen pregnancy and parenthood, prenatal development, preparing for birth, the baby's arrival, and care of the newborn child through the preschool years. The student is given the opportunity to apply their learning by engaging in a simulation project with the Baby-Think-It-Over dolls. The student will also be involved with the preschool located in our high school. **Advance Placement Credit is available through Baker College with successful completion (B or better) of Parenting.**

TEACHER CADET (formerly EDUCATIONAL PARADIGMS)**1.0 credit, grades 11-12**

Teacher Cadet is a course designed for students interested in pursuing a career in the educational field and/or getting an inside glimpse at the world of teaching. Students will examine and research the topics of educational history, schooling options, and the certification process. Students will also study and practice teaching methodologies and strategies, lesson planning and classroom management. Students will participate in classroom observations and assist in special education classrooms.

FINE AND PERFORMING ARTS

ART

AP PORTFOLIO ART

1.5 credit, grades 11-12

Prerequisite: The students are encouraged to complete all of the courses in one of the three paths. The three paths are Drawing, 2D design, or 3D design. For a drawing portfolio, the students are encouraged to complete Drawing 1-4. For a 2D design portfolio, the students are encouraged to complete Drawing 1-3, Design, and Computer Art. For a 3D design, the students are encouraged to complete Ceramics 1-4, Sculpture and Jewelry/Metal Arts. All art classes are strongly recommended for students completing any of the portfolios. (If a student completes one of the portfolios their junior year, they may do a different one their senior year.) The AP Studio Art class is designed for students who are seriously interested in the practical experience of art. AP Studio Art is not based on a written examination; instead, students submit portfolios for evaluation at the end of the school year. Students are responsible for purchasing materials for this course. Materials provided to students remain the property of LOCS (Lake Orion Community Schools). **Advance Placement Credit is available through Baker College with successful completion (B or better) of AP Portfolio Art.**

CERAMICS 1

0.5 credit, grades 9-12

This course covers the basic methods of ceramics including pinch, scoop, slab and coil. It will also review the history of ceramics and glazing. Students are responsible for purchasing materials for this course. Materials provided to students remain the property of LOCS (Lake Orion Community Schools).

CERAMICS 2

0.5 credit, grades 9-12

Prerequisite: Ceramics 1. This course includes the basic techniques using the potters' wheel. Advanced hand built methods will also be emphasized. Students are responsible for purchasing materials for this course. Materials provided to students remain the property of LOCS (Lake Orion Community Schools).

CERAMICS 3

0.5 credit, grades 9-12

Prerequisite: Ceramics 2. Ceramics 3 will involve a high concentration of potter's wheel work for the student. Ceramics 3 will also give the student the opportunity to create art forms with clay. Students are responsible for purchasing materials for this course. Materials provided to students remain the property of LOCS (Lake Orion Community Schools).

CERAMICS 4

0.5 credit, grades 9-12

Prerequisite: Ceramics 3. Ceramics 4 will provide the serious minded ceramic student with the opportunity to expand clay building techniques. Students are responsible for purchasing materials for this course. Materials provided to students remain the property of LOCS (Lake Orion Community Schools).

CERAMICS 5

0.5 credit, grades 10-12

Prerequisites: Ceramics 4. Ceramics 5 will provide the serious ceramic student with the opportunity of expanding their knowledge and skill of the potter's wheel. This course is for potter's wheel work only. Maximum of 20 students per class. Students are responsible for purchasing materials for this course. Materials provided to students remain the property of LOCS (Lake Orion Community Schools).

COMPUTER ART 1

0.5 credit, grades 9-12 (Satisfies elective computer requirement)

Recommended Prerequisite: Drawing 1 or Design Concepts. This course will focus on developing skills in computer art and its software with an element photography in order to expand the students two dimensional repertoire. In-depth research and identifying current computer art will also be expected. The student will create graphics, digital photographs, and morphed images. Materials provided to students remain the property of LOCS (Lake Orion Community Schools).

COMPUTER ART 2

0.5 credit, grades 9-12

Prerequisites: Computer Art 1. This course will focus on advancing the skills learned in Computer Art. In depth research and identifying current graphic and photography trends will also be expected. The student will create graphics, illustrations, animation, traditional and digital images on a more independent and creative level. Students are responsible for purchasing materials for this course. Materials provided to students remain the property of LOCS (Lake Orion Community Schools). **Articulation Credit is available through Baker College with successful completion (B or better) of Computer Art 2.**

COMPUTER ART 3

0.5 credit, grades 10-12

Prerequisites: Computer Art 2. This course will focus on advancing the skills learned in Computer Arts 1 & 2. In depth research and identifying current graphic and photography trends will also be expected and applied to student work. There will be a heavy emphasis on community involvement, local display and art competitions. Students are responsible for purchasing materials for this course. Materials provided to students remain the property of LOCS (Lake Orion Community Schools).

DESIGN CONCEPTS

0.5 credit, grades 9-12

Students taking this course will focus on the design elements and principles using a variety of media. Students are responsible for purchasing materials for this course. Materials provided to students remain the property of LOCS (Lake Orion Community Schools).

DRAWING 1

0.5 credit, grades 9-12

This course will introduce medias such as charcoal, pastel, pencil, and colored pencil. Students will learn how to draw from life, perspective, and create compositions that incorporate design elements and principles. Students are responsible for purchasing materials for this course. Materials provided to students remain the property of LOCS (Lake Orion Community Schools).

DRAWING 2

0.5 credit, grades 9-12

Prerequisite: Drawing 1. This course will focus on drawing from life, illustration work, and portrait work. Student voice and style will begin to emerge. Students are responsible for purchasing materials for this course. Materials provided to students remain the property of LOCS (Lake Orion Community Schools).

DRAWING 3

0.5 credit, grades 10-12

Prerequisite: Drawing 2. This course will focus on drawing from life, figure work, and further explore student voice and style. Students are responsible for purchasing materials for this course. Materials provided to students remain the property of LOCS (Lake Orion Community Schools).

DRAWING 4

0.5 credit, grades 10-12

Prerequisite: Drawing 3. This is a figure drawing course. The students will focus on proportion of the figure. Students will explore student voice and style as it relates to the figure. Students are responsible for purchasing materials for this course. Materials provided to students remain the property of LOCS (Lake Orion Community Schools). **Articulation is available through Baker College with successful completion (B or better) of Drawing 4.**

INDEPENDENT STUDIES - FINE ARTS - ART

0.5 credit, grade 11-12

Prerequisite: Student must have completed all courses offered in the area of study before selecting this class.

This course is designed for the student in grades 11-12 who desire a more intensive study in a particular discipline than the general curriculum provides. Before registration, each student must submit in triplicate, a work-study plan signed by his/her parent/guardian. Upon approval, copies will be held by the student, the teacher and their counselor. Weekly student-teacher conferences will be arranged to monitor the student's progress. The final project may be evaluated by the entire department before a grade is granted. Student's selecting this course must be able to work independently and responsibly. Students are responsible for purchasing materials for this course. Materials provided to students remain the

property of LOCS (Lake Orion Community Schools).

JEWELRY AND METAL ART

0.5 credit, grades 9-12

The study of various techniques, skills, and materials involved in creating handcrafted jewelry or metal forms are studied. Skills are built upon arranging assignments according to degree of difficulty and skills learned. Emphasis is placed on originality and craftsmanship. Students are responsible for purchasing materials for this course. Materials provided to students remain the property of LOCS (Lake Orion Community Schools).

JEWELRY AND METAL ART 2

0.5 credit, grades 9-12

Prerequisites: Jewelry and Metal Art 1. Jewelry & Metal Art 2 will give the student an opportunity to expand upon the concepts learned in the foundation metals class. New techniques will be introduced such as riveting, advanced casting, enamel and patina techniques. Individual creativity and uniqueness will be encouraged. Students are responsible for purchasing materials for this course. Materials provided to students remain the property of LOCS (Lake Orion Community Schools).

JEWELRY AND METAL ART 3

0.5 credit, grades 9-12

Prerequisites: Jewelry and Metal Art 2. Jewelry & Metal Art 3 will give the student an opportunity to expand upon the concepts learned in Metal Art 1 and 2. It will also focus heavily on uniqueness, creativity, and finding an individual voice in the student's artwork. Skill mastery will be expected as well as learning new concepts such as prong settings. Students are responsible for purchasing materials for this course. Materials provided to students remain the property of LOCS (Lake Orion Community Schools).

PAINTING - OILS

0.5 credit, grades 9-12

Prerequisite: Drawing 1. This course teaches students how to paint with oil paint. Students will paint from life, explore portrait work, and develop student voice working with oil paint. Students are responsible for purchasing materials for this course. Materials provided to students remain the property of LOCS (Lake Orion Community Schools).

PAINTING - PORTRAITS

0.5 credit, grades 9-12

Prerequisite: Drawing 1. Students taking this course should have a strong interest in figure work. Students will be taught figure proportion and gesture drawing. The students will work in watercolor and oil paint. Students are responsible for purchasing materials for this course. Materials provided to students remain the property of LOCS (Lake Orion Community Schools).

PAINTING - WATERCOLORS

0.5 credit, grades 9-12

Prerequisite: Drawing 1. This course will teach students the watercolor techniques of wet on wet, wet on dry, and dry on dry. The students will learn how to blend and show value with watercolor. Students will paint from life and be taught how to reference. Students are responsible for purchasing materials for this course. Materials provided to students remain the property of LOCS (Lake Orion Community Schools).

PHOTOGRAPHY 1

0.5 credit, grades 10-12

Prerequisite: Design Concepts or Drawing 1. In this course, students create and present images using the camera and the darkroom. Students learn the concepts of proper exposure, composition, printing and presentation. Students develop skills in various photographic techniques to create expressive artwork. Students research and explore the history of photography to better understand the nature of photography, its impact on society and its esthetic value. Students critique their own and others' photography. Students demonstrate an understanding of how to work with photographic chemicals and how to work in the darkroom. Students will also work with digital cameras and manipulation of images on the computer using programs such as Adobe Photoshop. Students may want to have a digital camera of at least 8.0mp to use during the class (it is recommended but not required). Students are responsible for purchasing materials for this course. Materials provided to students remain the property of LOCS (Lake Orion Community Schools).

RAKU POTTERY

0.5 credit, grades 9-12

Prerequisite: Ceramics 2. Raku Pottery is a form of ceramics which allows the student to be incorporated into the total process. Students will create pottery which they will glaze outdoors. This course will only be offered fall and spring terms (1st & 4th) so students may be outdoors. Students are responsible for purchasing materials for this course. Materials provided to students remain the property of LOCS (Lake Orion Community Schools).

RAKU POTTERY 2

0.5 credit, grades 9-12

Prerequisite: Raku 1. Raku Pottery 2 will enable the serious art student to explore advanced methods in the Raku pottery process. Students will incorporate advanced glaze and firing techniques in this course. Students are responsible for purchasing materials for this course. Materials provided to students remain the property of LOCS (Lake Orion Community Schools).

SCULPTURE

0.5 credit, grades 9-12

This course will include a study in clay and/or plaster sculpting methods and techniques in paper mache' and paper structure. Here the major emphasis will be placed upon tool usage, building and carving methods. Students are responsible for purchasing materials for this course. Materials provided to students remain the property of LOCS (Lake Orion Community Schools).

DANCE

DANCE (not offered in 2011-2012)

0.5 credit, grades 9-12

Dance class explores various dance forms, styles, and kinds of movement. Students will learn the various techniques and artistic styles of several genres or forms of dance, including modern, tap, jazz, ballet, hip-hop, and other kinds of social dance (swing, salsa, African dance, etc.). While building strength, flexibility, balance and other kinesthetic skills, students will explore the creative art of dance and the stylistic differences inherent in each form. Students will also explore core concepts of movement, kinesiology, and choreography while engaging in performance projects. Dance terminology and choreographic styles/theories will be integrated into performance projects.

DRAMA

DRAMA WORKSHOP

0.5 credit, grades 9-12

The purpose of this course is to gain an understanding and appreciation of some of the basic elements of theatre. By learning to utilize both verbal and nonverbal communication, the student will create believable characters, both in scripted and improvisational settings. In addition, the student will be familiar with various physical and technical aspects of the theatre. Students will apply this knowledge in analyzing a limited number of plays outside of the classroom. The student will gain an effective stage presence and an appreciation for the various aspects of drama.

DRAMA THEATRE ARTS

1.0 credit, grades 9-12

Prerequisite: Drama Workshop or department approval. Theatre Arts is a more advanced course for those who are interested in a more intense study of drama. Concepts of Drama Workshop are discussed in more detail and are applied to larger, more elaborate activities. Students will learn about the history of theatre as well as analyzing scripts from more contemporary playwrights. Students will also create scripts and apply directorial instruction to create their own one-act plays. The student will understand and appreciate the importance of the theatre in our lives.

FINE ARTS BLOCK

1.0 credit, grades 10-12

The fine arts block offers a unique approach to the study, and most importantly, the enjoyment of the disciplinary approach to the appreciation of the artistic output of man. Realizing that great works of art were not conceived or, created in a vacuum, but in a community of humanity, the inter-relatedness of creativity is accented. From the Cave Drawings of Lascaux and Pre-Historic Man, to the works of Art, Music, Literature, all expressions of thought. This course is for the adventurous student who appreciates an unconventional approach to study. Projects field trips, (in and out of school)

student generated assignments, are a few ingredients to this highly individualized, hands-on style of learning. Independence of thought and output is greatly encouraged, as students work at their personal rate of excellence, in cooperation with others.

INDEPENDENT STUDY - FINE ARTS

0.5 credit, grades 11-12

Prerequisite: Student must have completed all courses offered in the area of study before selecting this class. A written plan of work must be submitted and approved by mutual student and teacher agreement. This course is designed for the student in grades 11-12 who desire a more intensive study in a particular discipline than the general curriculum provides. Before registration, each student must submit in triplicate, a work-study plan for the quarters signed by his/her parent/guardian. Upon approval, copies will be held by the student, the teacher and their counselor. Weekly student-teacher conferences will be arranged to monitor the student's progress. The final project may be evaluated by the entire department before a grade is granted. Students selecting this course must be able to work independently and responsibly.

MUSIC

MUSIC CONCEPTS

First term only, 0.5 credit, grades 10-12

Prerequisite: Prior music knowledge and ability to read music to perform on a musical instrument (voice included) are required. Members work together in small and large groups on chamber music and other music projects. Students improve individual music skills and study music theory, history and literature. Students are required to participate in at least one performance as determined by instructor. Students are responsible for purchasing materials for this course. Materials provided to students remain the property of LOCS (Lake Orion Community Schools).

Performance requirements: Membership in all music performance groups requires the student attend all performances of the group in which he/she is enrolled. Failure to appear may result in failure in that class and loss of credit. Exceptions include: doctor's excuse, death in immediate family or any unusual circumstances as decided by director and/or principal.

CAMPUS CHOIR

1.0 credits, grades 9 –12

Campus Choir is a two-term course for incoming 9th grade students and 10th, 11th and 12th grade students who are not yet ready for a more advanced choir experience. Students will be taught to sing in three-part harmony. Correct vocal production is emphasized. Music reading is learned. Basic music theory and music history are introduced. Students will be involved in at least one required evening performance each term. Additional choir opportunities such as MSVMA Honor Choir, show choirs, and Solo & Ensemble Festival will be offered to those enrolled in class. Previous choir experience is not necessary. The class may be repeated. Students are responsible for purchasing materials for this course. Materials provided to students remain the property of LOCS.

CHAMBER CHOIR

2.0 credits, grades 10-12

Prerequisite: Campus Choir, Concert Choir, or Chorale and Audition. Chamber choir is a highly auditioned choir of the most advanced singers who will study collegiate level choral literature. Students typically have extensive vocal and even instrumental training and have the desire to be challenged by this level. Advanced sight-singing, ear-training, history and music theory as it applies to the choral literature will be included. Students will be expected to attend all performances including, but not limited to, evening concerts and MSVMA festivals as part of their grade. A concert uniform will be provided by the school. Students are responsible for purchasing materials for this course. Materials provided to the students remain the property of LOCS.

CHORALE

2.0 credits, grades 10-12

Prerequisite: Open by audition. The chorale will be comprised of advanced students. A full range of choral literature will be sung. Advanced sight-singing will be rehearsed. It is desirable that Chorale members remain in this class for the full year. If a conflict should occur, the student, after consultation with his/her counselor and director may opt out. All performances are required. Students are responsible for purchasing materials for this course. Materials provided to students remain the property of LOCS.

CONCERT CHOIR

2.0 credits, grades 10-12

Prerequisite: Open by audition. Concert Choir is the intermediate level choir. A full range of choral literature will be sung. Intermediate level sight-singing will be rehearsed. It is desirable that Concert Choir members remain in this class

all year. If a conflict should occur, the student after consultation with his/her counselor and director may opt out. All performances are required. Students are responsible for purchasing materials for this course. Materials provided to students remain the property of LOCS.

EXPLORING POPULAR MUSIC

0.5 credit, grades 9-12

Exploring Popular Music is a survey of American popular music from its roots in colonial times to the present day. Through listening to multiple musical samples, selected readings, and class discussion, students will develop knowledge of musical elements and analysis skills. Emphasis will also be placed on social and historical events which led to the evolution of different popular musical styles. The course will begin with colonial times and the founding of the United States, move through the 19th Century westward expansion, and emphasize the explosion of popular music styles in the 20th and 21st centuries including the influence of world popular music and electronic music. Genres included for study (but not limited to) would be: Folk Songs, Ragtime, Tin Pan Alley, Roots of Jazz, Big Band, Broadway, Gospel, Blues, Rock and Roll, Rock, New Age, Techno, Mash-ups, Grunge, Metal, Funk, Soul, Rap and world music such as Reggae.

INDEPENDENT STUDY - Fine Arts -Music

0.5 credit, grades 11-12

Prerequisite: Student must have completed all courses offered in the area of study before selecting this class. A written plan of work must be submitted and approved by mutual student and teacher agreement. This course is designed for the students in grades 11-12 who desires a more intensive study in a particular discipline than the general curriculum provides. Before registration, each student must submit in triplicate, a work-study plan signed by his/her parent/guardian. Upon approval, copies will be held by the student, the teacher and their counselor. Weekly student-teacher conferences will be arranged to monitor the student's progress. The final project may be evaluated by the entire department before a grade is granted. Students selecting this course must be able to work independently and responsibly.

INSTRUMENTAL MUSIC

CAMPUS BAND

1.0 credit, grades 9-12

Prerequisite: Successful completion of eighth grade band. Open by audition. This course will be comprised of primarily ninth grade members. The ensemble will perform at concerts, festivals and parades when appropriate. Attending Solo and Ensemble will be strongly encouraged as part of the curriculum. The members of this ensemble will be groomed for participation in advanced Senior High School performing groups. Students are responsible for purchasing materials for this course. Materials provided to students remain the property of LOCS (Lake Orion Community Schools).

CONCERT BAND

(Terms 2, 3, & 4 only), 1.5 credits, grades 9-12 (9th graders by Audition)

Prerequisite: Open to Grade 9 by audition. The High School Concert Band is designed for the serious, developing musician. The concert band will be responsible for all scheduled performances. Members will be encouraged to perform at Solo and Ensemble Festival. Attendance at all performances is required. It is desirable that band members remain in all terms of this class. If a conflict should occur, the student, after consultation with his/her counselor and director may opt out. (If admitted as a 9th grade student, the student must enroll in terms 2-4 (1.5 credit) without exception.) Students are responsible for purchasing materials for this course. Materials provided to students remain the property of LOCS (Lake Orion Community Schools).

JAZZ BAND

1.0 credit, grades 9-12

Prerequisite: Teacher approval. Jazz Band is a performing ensemble for students in Lake Orion High School who perform on piano, guitar, bass guitar, drum-set, percussion, saxophone, trumpet and trombone. Students will learn the various jazz scales and modes, develop improvisational skills, and learn the history of jazz, which is one of the only truly American art forms.

MARCHING BAND

First term only, 0.5 credit, grades 10-12 (grade 9 by audition)

Prerequisite: Open by audition. This group will perform at all home football games and parades plus Saturday competitions throughout the term. A schedule of performances will be made available in May prior to the next school year. All performances are required. This class must be taken in conjunction with Concert Band, Symphonic Band or Wind Ensemble unless prior approval is given by the band director. Students must attend summer band camp to be a member of Marching Band. Students are responsible for purchasing materials and paying additional costs for this course. Materials provided to the students remain the property of Lake Orion Community Schools.

SYMPHONIC BAND

(Terms 2, 3, 4 only), 1.5 credits, grades 9-12

Prerequisite: Open by audition. The High School Symphonic Band will be comprised of intermediate to advanced musicians. This ensemble rehearses and performs advanced band literature. All performances are required. Members will be highly encouraged to perform in a solo or small ensemble type of event as deemed appropriate by the director. It is desirable that band members remain in all terms of this class. If a conflict should occur, the student, after consultation with his/her counselor and director may opt out. Students are responsible for purchasing materials for this course. Materials provided to students remain the property of Lake Orion Community Schools.

WIND ENSEMBLE

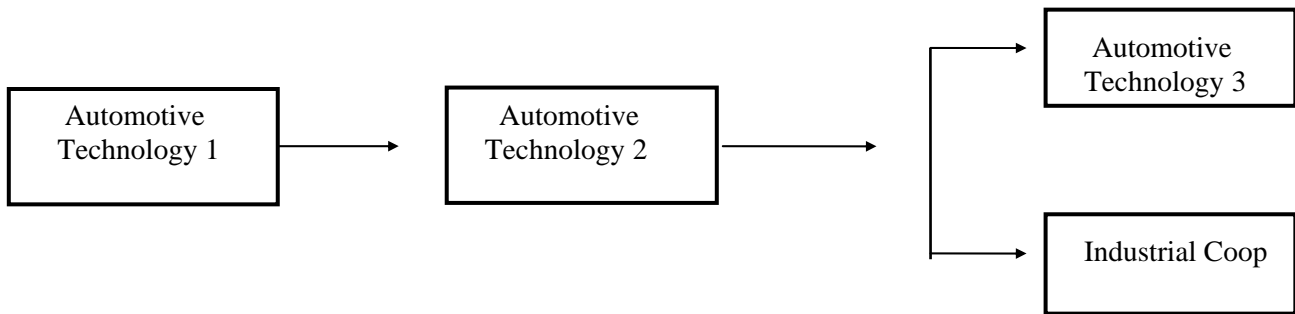
1.5 credits, grades 10-12

Prerequisite: Open by audition. The High School Wind Ensemble will be comprised of the most advanced instrumental musicians. This ensemble will rehearse and perform advanced high school and collegiate band literature. All performances are required. Members will be expected to perform in a Solo & Ensemble event as deemed appropriated by the director. It is desirable that band members remain in all terms of this class. If a conflict should occur, the student, after consultation with his/her counselor and director may opt out. Students are responsible for purchasing materials for this course. Materials provided to students remain the property of Lake Orion Community Schools.

INDUSTRIAL TECHNOLOGY

INDUSTRIAL - TECHNICAL EDUCATION SUGGESTED SEQUENCE

AUTOMOTIVE



AUTO TECHNOLOGY 1

1.0 credit, grades 10-12

The purpose of this course is to provide exploratory experiences related to the automobile, its engines and its components. Content will include these instructional units: basic shop practices, preventive maintenance, gasoline and diesel engines, brake systems and principles of automotive tune-ups. Content is general, but comprehensive enough to provide a basic background for those students who wish to pursue auto mechanics as an occupation. Future scheduling for Vocational Auto Technology 2 and 3 is an important consideration upon enrollment. **Advance Placement Credit is available through Ferris State University with successful completion (B or better) of Auto Technology 1.**

AUTO TECHNOLOGY 2

1.0 credit, grades 10-12

Prerequisite: Auto Technology 1. This is an advanced course that builds upon the basic Auto Technology 1 course. This course stresses practical job related experiences with each student working on a number of real automobiles. In addition, content will include instructional units on: front end and steering systems, power transmissions, rear axles and principles of front wheel drive operation and engine electrical components (starting, charging and ignition systems). After successfully completing the course, basic skills learned will prepare the student for industry entry level positions.

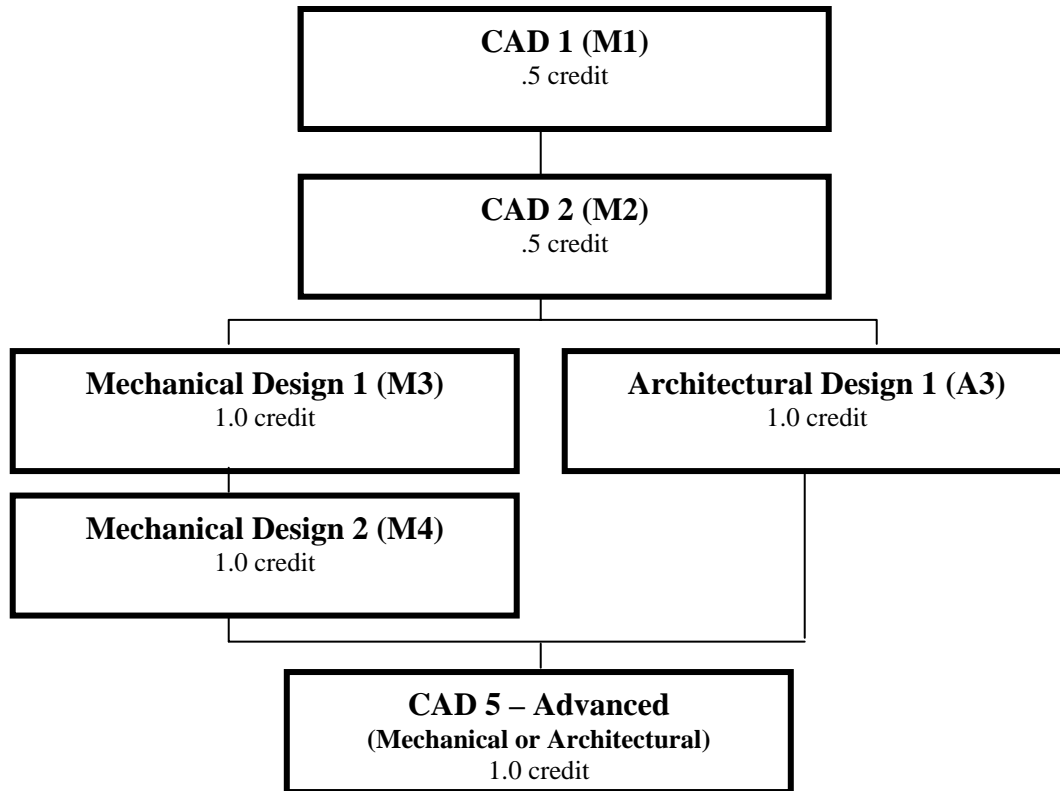
AUTO TECHNOLOGY 3

1.0 credit, grades 11-12

Prerequisite: Auto Technology 2. This advanced course builds upon fundamental repair operations learned in Auto Technology 1 and 2. This course stresses on-vehicle problem diagnosis and repair operations. In addition, content will include the following instructional units: chassis electrical accessory circuits, automatic transmission theory of operation and assembly, emission control systems, air conditioning theory and system service. Successful completion of this course permits entry into auto mechanics occupations. **Advance Placement Credit is available through Ferris State University with successful completion (B or better) of Auto Technology 2 and Auto Technology 3.**

INDUSTRIAL TECHNOLOGY CO-OP (See page 75 for course description.)

CAD/DESIGN TECHNOLOGY



CAD 1 – Beginning (M1)

0.5 credit, grades 9-12 (Satisfies 0.5 elective computer credit)

This course is offered to students who have had little or no experience with AutoCAD or drafting. Students will explore Computer Aided Drafting techniques through the application of 2-D design concepts focused in mechanical design and residential architecture. Upon satisfactory completion of this course, students will be able to produce and read simple engineering and architectural drawings and will be prepared for CAD 2. **Advance Placement Credit is available through Baker College with successful completion (B or better) of CAD 1.**

CAD 2 – Intermediate (M2)

0.5 credit, grades 9-12

Prerequisite: CAD 1 – Beginning (M1). This course is offered to students who want to further their knowledge and skill of computer aided drafting and design that were acquired in CAD 1. In this course, students will learn more challenging 2-D drafting and design concepts using AutoCAD software and they will be introduced to 3-D design concepts using a 3-D solid modeling software. This course will focus on both mechanical and residential architecture design concepts. Upon satisfactory completion of this second course in CAD/Design program, the student will be prepared for success in the next design courses. **Advance Placement Credit is available through Baker College and Oakland Community College with successful completion (B or better) of CAD 2.**

MECHANICAL DESIGN 1 – (M3)

1.0 credit, grades 10-12

Prerequisite: CAD 2 – Intermediate (M2). This course is offered to students who would like to combine the skills that were acquired in CAD 1 and CAD 2 with new engineering and design problem solving skills to build machines that are intended to demonstrate specific applications related to math, science, and physics. Students will participate in a variety of projects in which they will design, document, build, and test their machines. Students will also have the opportunity to participate in the Oakland County Competitive Robotics Association (OCCRA) where they will design, document, and build a robot that will compete against other schools in Oakland County. Students may also become members of the Michigan Industrial and Technology Education Society (MITES) and enter their work into the yearly student project competition.

MECHANICAL DESIGN 2 – (M4)

1.0 credit, grades 11-12

Prerequisite: Mechanical Design 1 (M3). This course is offered to students who would like to combine all of the skills that were acquired in previous CAD/Design program courses with new software techniques to produce and test working machines that are intended to demonstrate specific applications related to math, science, and physics. New software techniques include: photorealistic rendering, stress analysis, and dynamic simulations. Students will also have the opportunity to participate in the Oakland County Competitive Robotics Association (OCCRA) where they will design, document, and build a robot that will compete against robots from other schools in Oakland County. Students may also become members of the Michigan Industrial & Technology Education Society (MITES) and enter their work into the yearly student project competition.

ARCHITECTURAL DESIGN 1 – (A3)

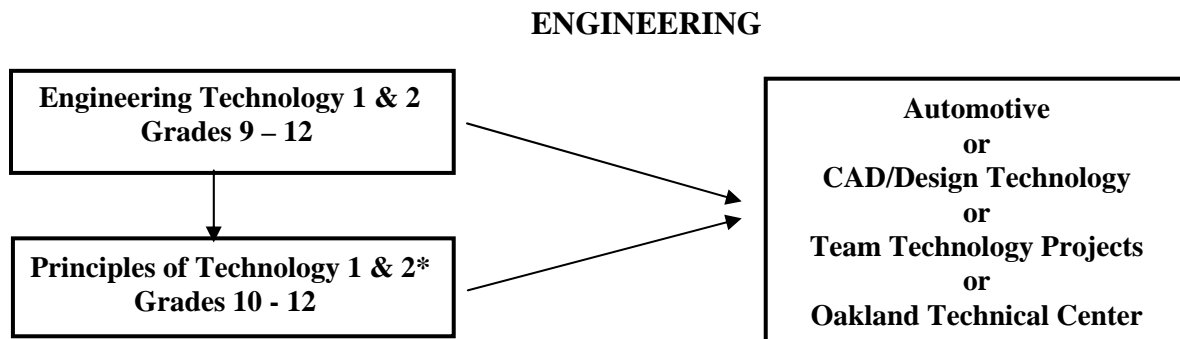
1.0 credit, grades 10-12

Prerequisite: CAD 2 (M2). This course is offered to students who would like to further the architectural design skills acquired in CAD 1 and CAD 2. The students will use AutoCAD (for 2D) and other 3D architectural modeling software to study residential construction. Subjects for this course include site location, cost estimation, design (interior and exterior) considerations, and building codes. This course will equip the student with the skills that will allow them to produce a complete drawing package which includes a site plan, floor plan, foundation plan, elevations, building details, and photorealistic renderings. Students may also become members of the Michigan Industrial and Technology Education Society (MITES) and enter their work into the yearly student project competition. **Advance Placement Credit is available through Baker College and Oakland Community College with successful completion (B or better) of Architectural Design 1.**

COMPUTER AIDED DRAFTING (CAD-5) - ADVANCED (MECHANICAL OR ARCHITECTURAL)

1.0 credit, grade 12

Prerequisite: Architectural Design (A3) or Mechanical Design 2 (M4). This course is offered to students who would like to combine all of the skills acquired in the previous CAD/Design courses and apply them to real world situations. The student will have a choice to either complete a mechanical design project or an architectural design project. After choosing a project type, the student will be required to completely design and document a project of their own (with instructor's approval) or a project given to them by the instructor. Students may also have the opportunity to participate in the Oakland County Competitive Robotics Association (OCCRA) where they will design, document, and build a robot that will compete against robots from other schools in Oakland County. Students may also become members of the Michigan Industrial & Technology Education Society (MITES) and enter their work into the yearly student project competition.



* Students may earn 0.5 science credit in either Principles of Technology 1 or Principles of Technology 2 but not both.

ENGINEERING TECHNOLOGY 1

0.5 credit, grades 9-12

This course is specifically designed for students interested in pursuing careers in the engineering and technical fields. It emphasizes the relationship between principles taught in general math, science and social studies courses and practical application. Students will be introduced to basic concepts of energy conversion, electrical/electronics, pneumatics and hydraulics through classroom discussions, demonstrations, media presentations and guest speakers. In addition, students will be able to reinforce their learning by constructing and dismantling related experiments in a laboratory setting.

ENGINEERING TECHNOLOGY 2

0.5 credit, grades 9-12

Prerequisite: Engineering Technology I. This course builds upon the fundamental concepts studied in Engineering Technology I. It provides students with an in-depth understanding of electronics and fluid power through laboratory related experiences. Course activities will enable the student to apply a variety of learned skills through the conception, design, fabrication and testing of a technology project.

PRINCIPLES OF TECHNOLOGY 1

1.0 credit, grades 10-12

This course is an integrated package of competency based test materials, hands-on laboratory activities, video programs, and mathematics skill labs. Course content emphasizes physics formulas in the workplace. Instructional units include the study of the principles of force, work, and rate while working on experiments and projects involving electricity, fluids, mechanical and thermal systems. Completion of this course provides the student with the necessary background to better understand the purpose of advanced math and science courses and prepare for working with technology in technical occupations. Enrollment for Principles of Technology II course is an important consideration upon enrollment.

PRINCIPLES OF TECHNOLOGY 2

1.0 credit, grades 10-12

Prerequisite: Principles of Technology I. This course builds on the Principles of Technology I course and includes the additional units involving resistance, energy, power, and force transformers. Students will work with modern technical equipment to perform experiments and develop skills in practical problem solving. This course will stress the underlining mathematical and scientific principles behind technology. Upon completion of this course, students will be prepared to study technical fields with the necessary skills and understandings needed to assure success.

TEAM TECHNOLOGY PROJECTS

1.0 credit, grades 11-12

Prerequisite: Teacher approval. This course will provide the student a unique opportunity to participate in collaborative project(s) through a special in-depth study. The project selected for the course will be predetermined by the instructor based on specified criteria established according to the guidelines of project selection. Typically, projects center around Electrathon, U.S. First, Robotics, and Mechanical Engineering.

Students will be required to contribute to the development of the project based on individual interest and ability. The process, however, of how the student will determine his or her individual project goals, timelines and procedures will be autonomous, though small evaluation sessions will be administered by the teacher via individual and group instruction.

MATHEMATICS

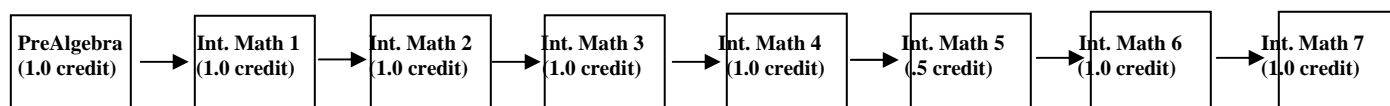
COURSE SELECTIONS SEQUENCES

- Students are required to complete four (4) credits of Mathematics.
- Students are required to complete coursework equivalent to Algebra 1, Geometry, and Algebra 2. (See below for program specific courses)
- During their senior year, students are required to pass one math-related course.

College Program with Integrated Approach

To meet state graduation requirements, students must complete at least Integrated Math 1 through 4.

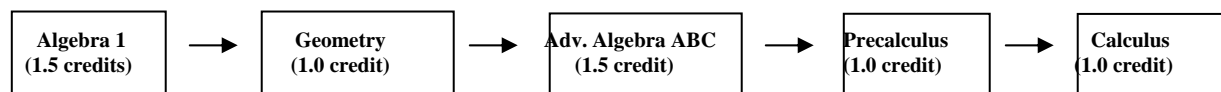
Prior to the junior MME, students using the Integrated approach should complete the sequence of courses through the first half of Integrated Math 3 and Introductory Statistics.



College Program with Traditional Approach

To meet state graduation requirements, students must complete at least Algebra 1, Geometry and Advanced Algebra (A, B, & C).

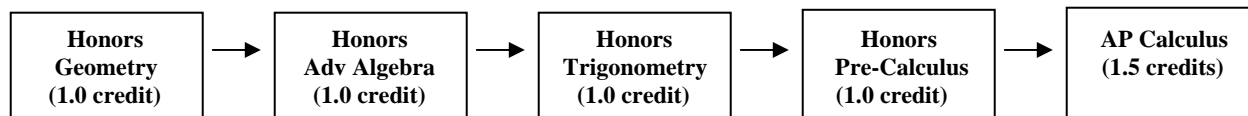
Prior to the junior MME, students using the Traditional approach should complete the sequence of courses through Advanced Algebra C, and either AP Statistics or Introductory Statistics.



Honors Program

To meet state graduation requirements, students must complete at least Algebra 1, Honors Geometry, and Honors Advanced Algebra.

Prior to the junior MME, students in the Honors Program should complete at least the first half of Honors Pre-Calculus and either AP Statistics or Introductory Statistics.



ADVANCED ALGEBRA

1.5 credits, grades 9-12

Prerequisite: Algebra 1. Advanced Algebra is a course designed to build upon the concepts taught in Algebra 1. This course will continue the study of exponential and logarithmic functions and will expand to cover rational and trigonometric functions. Students will extend their knowledge to include conic sections, sequences, and iterations.

ADVANCED PROBLEM SOLVING

(For the 2011-2012 school year, this course is only available to Learning Option students.)

0.5 credit, grades 11-12

Prerequisite: Algebra 2 or Integrated Math 3. This course fulfills the requirement of a senior year mathematics course. The course is designed to provide students with instruction to improve problem-solving ability and demonstrate the uses of mathematics in solving real-world problems. Topics covered include: determining accuracy and error, modeling real-world situations and drawing conclusions, applying probability concepts to practical situations, using linear programming to represent and solve authentic problems, and using mathematics to make decisions involving multiple criteria. The course will include many connections to a field of engineering known as Operations Research, the scientific approach to analyzing problems and making decisions.

ALGEBRA 1

1.5 credits, grades 9-12

Prerequisite: 8th grade Concepts in Algebra or teacher recommendation. Algebra 1 is a course designed for the college bound student and builds upon topics covered in the middle grades. This course thoroughly investigates the structures, techniques, and applications used in basic algebraic reasoning. Algebra 1 will further the study of linear functions and include piecewise and absolute value functions. In addition, students will cover non-linear functions such as quadratic, exponential, logarithmic and power functions. Additional topics will include polynomials, recursive functions, and linear regressions.

AP CALCULUS

1.5 credit, grades 11- 12

Prerequisite: Honors Pre-Calculus or teacher recommendation. This course is designed for students who plan to continue the advanced math series. Calculus is a comprehensive study of analytical geometry, limits and limit theory, and differentiation and integration of functions of one real variable. Considerable emphasis will be placed upon problem solving.

AP STATISTICS

1.0 credit, grades 10-12

Prerequisite: Honors Advanced Algebra or Geometry. The purpose of the AP course in statistics is to introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students are exposed to four broad conceptual themes: exploring data, sampling and experimentation, anticipating patterns, and statistical inference.

CALCULUS

1.0 credit, grades 11-12

Prerequisite: Pre-Calculus. This course is designed for students who plan to continue the college math series. Calculus is a comprehensive study of analytical geometry, limits, and differentiation and integration of functions of one real variable. Considerable emphasis will be placed upon problem solving.

GEOMETRY

1.0 credit, grades 9-12

Prerequisite: Algebra 1. This course is a study of plane, solid and coordinate geometry and an introduction to trigonometry. Topics will include angles, lines, area, perimeter, and properties of polygons (focusing on triangles and quadrilaterals). Also included are transformations, a study of circles and their characteristics, and a study of solid figures including surface area and volume. Mathematical reasoning, logic, constructions, and real world connections will be emphasized.

HONORS ADVANCED ALGEBRA

1.0 credit, grades 9-12

Prerequisite: Honors Geometry. The first part of the course is a continuation of Algebra 1 with advanced treatment of

linear equations, quadratic equations, inequalities, factoring, irrational numbers and graphing. New topics of study will be negative exponents, quadratic relations, and logarithms.

HONORS GEOMETRY

1.0 credit, grades 9-12.

Prerequisite: 8th grade Algebra 1. This course is the study of plane, analytic and solid geometry. We will describe, model, classify and draw shapes while investigating and predicting results of combining, subdividing and changing shapes. We will study deductive arguments and real world applications and modeling.

HONORS PRE-CALCULUS

1.0 credit, grades 10-12

Prerequisite: Honors Trigonometry. We will study polynomial functions, rational functions, radical functions and linear programming. Next we will study rational, exponential and logarithmic functions. The course will also include polar coordinates, complex numbers, conic sections and sequences and series. Additional topics will be covered if time permits.

HONORS TRIGONOMETRY

1.0 credit, grades 9-12

Prerequisite: Honors Advanced Algebra. This course is the study of right triangle trigonometry, circular trigonometric functions, graphing, oblique triangles and equation solutions.

INDEPENDENT STUDY

0.5 credit, grades 10-12

Prerequisite: Application process. This course is designed for the student in grades 10-12 who desires a more intensive study in a particular discipline than the general curriculum provides. Before registration and the term begin, each student must submit in triplicate, a work-study plan for the term signed by her/his parent/guardian. Upon approval, one copy will be held by the student, one by the teacher and the third given to the counselor. Weekly student-teacher conferences will be arranged to monitor the student's progress. The final project may be evaluated by the entire department before a grade is given. Students selecting this course must be able to work independently and responsibly.

INTEGRATED MATHEMATICS 1

1.0 credit, grades 9-12

Prerequisite: Pre-Algebra. This course is a study of evaluating expressions, increasingly complex geometry concepts, properties of numbers, more complex exponential and radical equations and expressions, function notation, inequalities and more advanced solving of equations.

INTEGRATED MATHEMATICS 2

1.0 credit, grades 9-12

Prerequisite: Integrated Math 1. This course is a study of operations with exponents and radicals, graphing algebraic equations, solving systems of equations, set theory, more advanced geometry, complex fractions, factoring, functions, scientific notation and an introduction to probability.

INTEGRATED MATHEMATICS 3

1.0 credit, grades 9-12

Prerequisite: Integrated Math 2. This course is a study of algebra and geometry including rational expressions and equations, logical reasoning, proof, perpendicular and parallel lines, multiplying and dividing polynomials.

INTEGRATED MATHEMATICS 4

1.0 credit, grades 9-12

Prerequisite: Integrated Math 3. This course is a study of quadratic equations, simplifying rational expressions, algebraic applications, introduction to trigonometry, radical expressions, vectors, angle relationships and parallelograms.

INTEGRATED MATHEMATICS 5

0.5 credit, grades 9-12

Prerequisite: Integrated Math 4. This course is a study of complex numbers, bases, arithmetic and geometric means, radicals, logarithms, functions, polynomials, piecewise functions, binomial theorem, trigonometric functions and graphs, and equation solving.

INTEGRATED MATHEMATICS 6

1.0 credit, grades 9-12

Prerequisite: Integrated Math 5. This course is a study of number sense, expressions, equations, inequalities, functions and graphs, lines, triangles, polygons, circles, logic, proof, summation, trigonometry and probability applications.

INTEGRATED MATHEMATICS 7

1.0 credit, grades 9-12

Prerequisite: Integrated Math 6. This course is a study of exponentials, logarithms, systems of equations, radicals, complex numbers, functions, conic sections, completing the square, regular polygons, area, inverses, solving trigonometric equations, proving identities and the laws of sines and cosines.

INTRODUCTORY STATISTICS

0.5 credit, grades 9-12

Prerequisite: Algebra 1 or Integrated Math 3. This course in statistical data analysis and probability is intended to be taken before the third term of the junior year. Topics of study will include producing and interpreting statistical displays, data collection and analysis, measures of center and variation, probability, and normal distributions.

MATH LAB

0.5 credit, grades 9-10

Prerequisite: Enrolled in Integrated Math 1 or Pre-Algebra and referral by counselor or teacher. Recognizing that Mathematics is a difficult topic for some students, the Math Lab is an academic support center designed for students with a history of difficulty or failure in math. The lab will provide support in mathematics. Students will learn study skills, time management, organization, note taking, and communication skills. The main focus will be on student achievement improving basic skills while increasing mastery of state course expectations.

NUMBERS, GAMES AND HEROES

0.5 credit, grade 12

Prerequisite: Advanced Algebra A or Integrated 4. In this course students will learn historical math figures and their mathematical theories. It will relate the people and their ideas to games and activities used in history as well as in modern times. Themes carried throughout each unit in the course are how the topics first came to be, what problems they helped to solve, who helped in the creation of these ideas and how we still use these topics today. Topics include magic squares, art, board games, statistics, brainteasers, shapes, mathematical tools, historical figures and cryptography.

PRE-ALGEBRA

1.0 credit, grades 9-12

This first course in the Integrated sequence introduces the structure of algebraic and geometric concepts and skills. The main focus is on operations with fractions, solving one step equations, properties of exponents and introductory geometry.

PRE-CALCULUS

1.0 credit, grades 10-12

Prerequisite: Geometry and Advanced Algebra. The first term contains a study of linear and quadratic modeling, the real number system, symmetry of relations, graphing functions through the use of transformations, radian angle measurement, and advanced trigonometric topics. The second term contains the study of rational functions, sequences, series, polar graphing, exponential functions and logarithmic functions.

PHYSICAL EDUCATION

REQUIRED COURSES

HEALTH EDUCATION

0.5 credit, grade 9 (REQUIRED)

This is a class designed to provide the student with knowledge and skills covering a wide range of health related topics. Areas to be studied: mental/emotional health, personal health, family life and health, nutrition, disease prevention and control, safety and first aid, substance use and abuse (alcohol, drugs, tobacco) and human sexuality education. Issues dealing with consumer, community and environmental health will be included where appropriate in the unit being studied. (Birth control and physical development sections of sexuality education are optional at the parent's discretion).

PHYSICAL EDUCATION

0.5 credit, grades 9-10 (REQUIRED)

This required class is designed to improve the students understanding of Physical Education, along with their physical, mental, social and recreational skills. Fitness concepts, personal responsibility for their own fitness levels, safety, exercise physiology, kinesiology, muscle anatomy, nutrition, injury prevention, along with opportunities to investigate career and technological aspect of Physical Education. Students will participate in a variety of activities that will include introductory aquatics, team sports, lifetime sports, and physical fitness testing -- all promoting healthy lifestyles and wellness.

ELECTIVE COURSES

AEROBIC FITNESS 1

0.5 credit, grades 9-12

Prerequisite: Required Physical Education class. Emphasis will be on health related fitness. Students will identify and apply the fundamental principles of cardiovascular endurance, muscular strength/endurance and flexibility training. Daily workouts may include the following kinds of activities; stretching exercises, calisthenics, walking, jogging, running, rope jumping, circuit training, weight training, rubber bands, step training and aerobic exercising and dancing.

AEROBIC FITNESS 2

0.5 credit, grades 10-12

Prerequisite: Aerobic Fitness 1. A continuation of Aerobic Fitness 1, this course is presented to give the student additional opportunity for improvement of fitness. Students will continue to apply the fundamental principles of cardiovascular endurance, muscular strength/endurance and flexibility training. Daily workouts will be the same as those described for Aerobic Fitness 1.

BASIC SWIMMING

0.5 credit, grades 9-12

Prerequisite: Required Physical Education class. This course will include stroke and skill development, water related exercises and activities, and water safety skills. It includes swimming technique equivalent to the American Red Cross Level 5. Community Water Safety is presented as well as an exposure to water sports including water polo, water volleyball, and occasionally snorkeling. Course work includes bookwork and written assignments from Community Water Safety, aquatic based fitness activities and appropriate skill. Students must pass an assessment test.

CONDITIONING & STRENGTH TRAINING 1

CONDITIONING & STRENGTH TRAINING 2

0.5 credit, grades 9-12

Prerequisite: Required Physical Education class. This is a series of elective courses that goes into conditioning and strength at a higher level. The student will participate in a variety of activities, including endurance running, interval training, strength training, circuit training, physical fitness training and flexibility training. They will assess their own level of fitness, improve overall strength, flexibility, and cardiovascular endurance. Emphasis will be on the "why" behind conditioning and lifetime fitness. Topics will include muscle identification, principles of conditioning, strength terms, prevention and treatment of injuries, and nutrition.

LIFEGUARD TRAINING

0.5 credit, grades 10-12

Prerequisites: Red Cross advance swimming certification or instructor's approval. This course will develop the student's swimming skills as well as muscular and cardiovascular endurance. It will provide the knowledge and skills designed to save his/her own life or the life of another in the event of an emergency. This training is intended to be a complete lifeguard training course in which certification from the Red Cross can be earned (Advanced Swimming, Lifeguard training, and community CPR. Students must pass an assessment test.

LIFETIME FITNESS ACTIVITIES 1

LIFETIME FITNESS ACTIVITIES 2

0.5 credit, grades 9-12

Prerequisite: Required Physical Education class. This course offers instruction and experiences in a variety of lifetime fitness activities such as health related fitness activities and testing, volleyball, badminton, golf, tennis and other recreational activities. The student will learn fundamental rules, skills and strategies necessary for participation. Not designed for the highly competitive athlete, this course is geared for the student who wishes to engage in lifetime activities for enjoyment and exercise.

SPORTS CONDITIONING 1

0.5 credit, grades 9-12

Prerequisite: Required Physical Education Class. **Application Process.** This course provides an opportunity for a student interested in conditioning or athletics to develop a strengthening and conditioning program. It will assist the student to make significant improvement in strength, flexibility, quickness, cardiovascular efficiency, muscular endurance, and fitness skills. Each student jointly with his/her physical education teacher and/or coach will develop an individualized conditioning plan and program. A maximum of 1 credit may be earned in sports conditioning courses toward meeting graduation requirements.

SPORTS CONDITIONING 2

0.5 credit, grades 9-12

Prerequisite: Sports Conditioning 1. This course will provide a more advanced opportunity for the student in conditioning. Based on the knowledge and fundamentals of the training and conditioning of Sports Conditioning I, Sports Conditioning II will further the student's development in strength, flexibility, quickness, cardiovascular efficiency, muscular endurance and fitness skills. Each student will develop an individualized workout plan to develop an area of fitness. A maximum of 1 credit may be earned in Sports Conditioning courses toward meeting graduation requirements.

STRENGTH AND CONDITIONING – WOMEN ONLY

0.5 credit, grades 9-12

Prerequisite: Required Physical Education class. This is an elective course for women only that goes into conditioning and strength at a higher level. The student will participate in a variety of activities, including endurance running, interval training, strength training, circuit training, physical fitness training and flexibility training. They will assess their own level of fitness, improve overall strength, flexibility, and cardiovascular endurance. Emphasis will be on the "why" behind conditioning and lifetime fitness. Topics will include muscle identification, principles of conditioning, strength terms, prevention and treatment of injuries, and nutrition.

TEAM SPORTS 1

TEAM SPORTS 2

0.5 credit, grades 9-12

Prerequisite: Required Physical Education class. This is an elective course geared for the active student. Knowledge of rules, skills and strategy will be emphasized through participation in various team sports. Some activities to be covered will be: floor hockey (winter), basketball, soccer (fall), softball, volleyball and weight training. The importance of physical activities will be emphasized as they contribute to health and a good quality of life.

THEORY AND CONDITIONING OF SWIMMING

0.5 credit, grades 9-12

Prerequisites: Instructor approval, Red Cross Level 5 Certification. Advanced swimmers wishing to pursue a more thorough study of competitive swimming techniques are encouraged to enroll in this program. Interval and tapering strategies will be introduced as well as dry land conditioning drills, race pace strategies, and weight training. May begin before school some days. Students must pass an assessment test. May be repeated for ½ credit at a more advanced level.

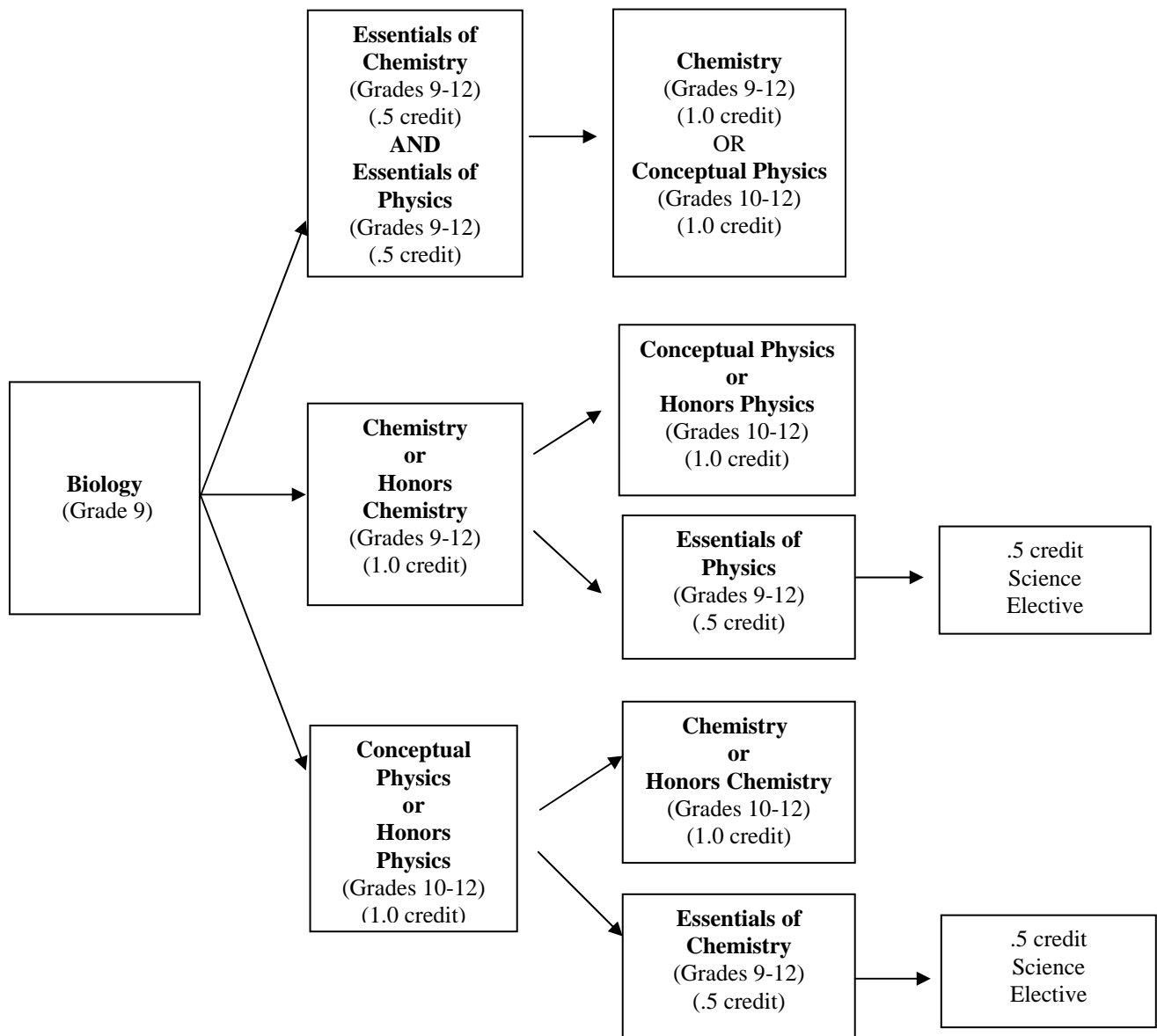
SCIENCE

All students must complete courses in Biology, Chemistry, and Physics.
 Three (3) credits are required in Science for grades 9-12 as follows:

- 1.0 credit Biology
- 1.0 credit in Chemistry or Physics
- 1.0 credit of additional science

- Principles of Technology may be taken for .5 credit of an elective science.
- The Cosmetology or Culinary programs at Oakland Schools Technical Campuses may be taken for a .5 credit of an elective science.

GRADUATION REQUIREMENTS



For additional science electives, see course descriptions.

SCIENCE

ASTRONOMY AND METEOROLOGY

0.5 credit, grades 10-12

This course provides coverage of major concepts in earth science. Areas to be covered are astronomy (solar system, galaxy, and universe), the atmosphere, weather, and climatology. Laboratory experiments will provide hands on experience reinforcing these concepts.

AP BIOLOGY

1.5 credit, grades 10-12

Prerequisites: Successful completion of Biology and Chemistry or Honors Chemistry. Advanced Placement Biology is a college level biology course. The textbook and laboratory activities are equivalent to those used in college. This course aims to provide students with the conceptual framework, factual knowledge, and analytical skills necessary to deal critically with the rapidly changing science of biology. Finally, the course aims to prepare students for the Advanced Placement Exam, which is an important (although not required) component of the class.

AP CHEMISTRY

1.5 credits, grades 10-12

Prerequisite: Successful completion of and demonstrated competencies in Chemistry or Honors Chemistry. This course is specifically designed as the second course in a two-course program for college chemistry preparation. The course will prepare students for chemistry at the university level, giving students the opportunity to earn college credit by taking the AP test in Chemistry in the spring. Students who enroll in AP Chemistry should have a solid foundation in inorganic chemistry from Chemistry, and will be expected to be highly motivated and responsible. Topics will include oxidation and reduction, electrochemistry, chemical kinetics and rate laws, coordination compounds, colligative properties, reaction rates and mechanisms, nuclear chemistry, and organic nomenclature and synthesis.

AP PHYSICS

1.5 credits, grades 11-12

Prerequisite: Honors Physics. This course is designed to prepare students planning to take physics in college and may choose to take the Physics Advanced Placement Exam. Students will be exposed to solving a wide variety of problems using the principles and laws governing the behavior of the inanimate world around us. The topics covered are motion, force, work, energy, power, thermodynamics, physical properties of matter, sound, light, electricity, magnetism and atomic/nuclear physics. Laboratory experiments and a variety of other activities are used to assist learning. A strong math background is required.

BIOLOGY

1.0 credit, grades 9-12

An ecological approach is used to study the interrelationships of organisms. Units are also included covering cellular biology, ecology, living things, genetics, evolution, and invertebrate anatomy. Laboratory experiments will provide hands on experience reinforcing these concepts.

CHEMISTRY

1.0 credit, grades 9-12

Prerequisite: Biology and successful completion or having earned one credit in Integrated 2, Algebra 1, or Honors Geometry. This course will provide students with a solid foundation of chemistry principles using the lab setting to reinforce the topics presented in the classroom. Chemistry exposes students to a variety of topics according to the required Michigan High School Content Expectations including naming and writing chemical formulas, reaction types, chemistry calculations, thermochemistry, gas laws, solutions, acids/bases, reduction/oxidation reactions, and organic chemistry.

CHEMISTRY DU JOUR

1.0 credit, grades 10-12

Prerequisite: Chemistry or Honors Chemistry. This course is specifically designed as the second course in a two-course program for college chemistry preparation. This course will prepare students for chemistry at the university level but is not preparatory for the AP exam in chemistry. Students who enroll in Chemistry 2 should have a solid foundation in

inorganic chemistry from Chemistry or Honors Chemistry. The primary focus the first term of this class is to complete remaining concepts in inorganic such as chemical kinetics and rate laws, reaction rates and mechanisms and oxidation and reduction. The second term of this class focuses on organic chemistry, including nomenclature, synthesis, polymer chemistry and its importance in society.

CONCEPTUAL PHYSICS

1.0 credit, grades 10-12

Prerequisite: Biology, Integrated 1 or Algebra 1. This course is a non-math based course designed to expose the students to a variety of topics in the area of Physics and motivate within them some interest and enthusiasm for science and its importance. Basic algebra skills will be utilized to help reinforce concepts. Conceptual Physics is intended to not only prepare the student for the Physics portion of the MME but to also meet Michigan's high school graduation requirements. Students will study the following areas: Motion of Objects, Forces and Motion, Forms of Energy, Energy Transformations, Electricity, Sound, and Waves. This class counts toward the Physics graduation credit.

ENVIRONMENTAL SCIENCE

0.5 credit, grades 9-12

Prerequisite: Biology. Environmental Science is an ecology-based class designed to focus on the relationships between humans and the environment. Through a combination of case studies, labs, projects, and outdoor explorations, students will investigate the effects humans have on our natural ecosystems and what can be done to counteract and improve the results on a local and global level.

ESSENTIALS OF CHEMISTRY

0.5 credit, grades 9-12

Prerequisite: Biology. This course is designed to expose the students to a variety of topics in the area of Chemistry and stimulate within them some interest and enthusiasm for science and its importance. Also, the student will learn through experience how ideas are developed and tested using scientific procedures and processes. In addition, Essentials of Chemistry is intended to prepare students for the Chemistry portion of the MME. With that in mind, all the essential Chemistry high school Expectations and Standards will be taught in the following areas: Forms of Energy, Energy Transfer and Conservation, Properties of Matter and Changes of Matter. This class will count as a science elective for graduation credit but not as the Chemistry or Physics graduation credit.

ESSENTIALS OF PHYSICS

0.5 credit, grades 9-12

Prerequisite: Biology. This course is designed to expose the students to a variety of topics in the area of Physics and stimulate within them some interest and enthusiasm for science and its importance. Also, the student will learn through experience how ideas are developed and tested using scientific procedures and processes. In addition, Essentials of Physics is intended to prepare students for the Physics portion of the MME. With that in mind, all the essential Physics high school Expectations and Standards will be taught in the following areas: Motions of Objects, Forces and Motion, and Forms of Energy and Transformations. This class will count as a science elective for graduation credit but not as the Chemistry or Physics graduation credit.

GEOLOGY

0.5 credit, grades 10-12

This hands-on-elective earth science course will develop the vocabulary and conceptual knowledge necessary for presenting and explaining major environmental issues that face the world today. Topics of study include: minerals, rocks, limited resources, earth's interior, plate tectonics and erosional forces that reshape the earth's surface. This class frequents the outdoors for hands on study in all weather conditions with advance notice. Students may be required to change and bring adventure appropriate gear.

HONORS CHEMISTRY

1.0 credit, grades 9-12

Prerequisite: Successful completion of having earned one credit in Algebra 1 or Honors Geometry. Freshmen may enroll in Honors Chemistry with permission of the science department head. Chemistry is specifically designed as the first course in a two-course program for college chemistry preparation. Students who have a deep interest in science and expect to use chemistry knowledge in college and in their career, should enroll in Honors Chemistry, followed by AP Chemistry the next year. The course closely parallels freshman college chemistry, and is academically demanding, with a high degree of self-discipline and responsibility expected of students. Topics will include details of inorganic chemistry, including gas laws, quantum theory, chemical bonding and molecular orbital theory, solutions, thermodynamics and kinetics, acid/base reactions, equilibrium systems, inorganic nomenclature and prediction of reaction products.

HONORS PHYSICS

1.0 credit, grades 10-12

Prerequisite: Biology, Advanced Algebra. This course is designed to expose the students to a variety of topics in the area of Physics and motivate within them some interest and enthusiasm for science and its importance. The student will learn through experience how ideas are developed and tested using scientific procedures and processes. Honors Physics is intended to not only prepare students for the Physics portion of the MME, but to also meet Michigan's new high school graduation requirements. With that in mind, all the essential and core Physics High School Expectations and Standards will be taught in the following areas: Motion of Objects Forces and Motion, and Forms of Energy and Transformations. This class will count as the Physics graduation credit. This course will differ from Conceptual Physics in that mathematical concepts will be stressed to reinforce important concepts. A strong mathematics background is required.

HUMAN ANATOMY AND PHYSIOLOGY

1.0 credit, grades 11-12

Prerequisite: Biology. Human anatomy and physiology is a detailed study of the ten major body systems. The role of homeostasis serves as a binding theme throughout this course. The study of each system will include anatomy, physiology and possible disorders components. Although there will be some dissection, lab work will stress physiology of the systems. This class will be especially helpful to those considering medical or health related careers.

INDEPENDENT STUDY

0.5 credit, grades 11-12

Prerequisite: Approval of the Science Department Committee. Students will design a scientific investigation on a specific topic. The first objective will be research on the assigned problem. Their second objective will be to carry out findings in the research room through actual laboratory work. Each student will write a paper upon completion of the investigation. Students must prepare three copies of a study or work plan for the teacher who will be responsible. After approval by the teacher, one copy of each will be retained by the teacher and student, and the other copy will be sent to the counselor's office. This must be done before registration. The final project will be evaluated and graded by a committee from the Science Department.

SCIENTIFIC INQUIRY

0.5 credit, grades 9-12

Prerequisite: Biology and Introduction to Statistics or AP Statistics. This class will focus on developing the skills to think like a scientist. Students will investigate scientific questions by collecting evidence, analyzing the evidence, formulating explanations based on the evidence, communicating these findings, and comparing their results with the consensus in the scientific community. Critical thinking and mathematical skills will be used to investigate case studies that focus on, but are not limited to, biological and ecological concepts. The case studies may use evidence from current real-world research or evidence that is student-collected in the lab. This class will be especially helpful to those considering a career in the sciences.

ZOOLOGY

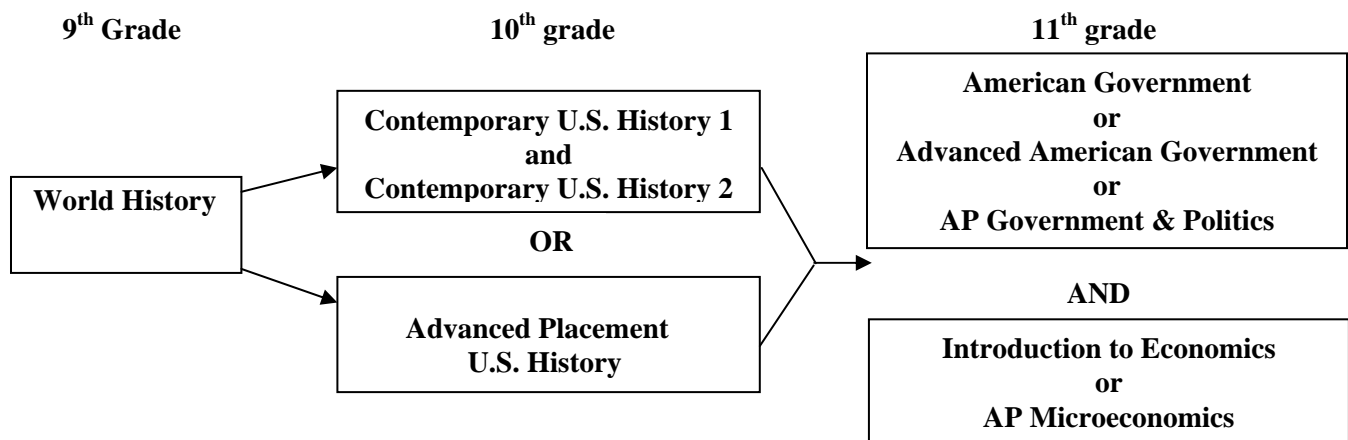
1.0 credit, grades 10-12

Prerequisite: Biology. Zoology is designed for those students desiring greater experiences in the biological sciences. This two-term course covers animal anatomy and physiology along with classification of the animal kingdom. General areas of study include levels of organization, the anatomical and physiological characteristics of all major animal phyla, ecological adaptations, and laboratory techniques. Students will conduct labs including dissections and learning some of the characteristics used to identify local animal species. This course will also serve to familiarize students with educational and occupational opportunities in the field of zoology. Zoology is designed to prepare students for college science courses.

SOCIAL STUDIES

COURSE SELECTIONS

SEQUENCE OF REQUIRED COURSES:



ABNORMAL PSYCHOLOGY

0.5 credit, grades 11-12

An emphasis will be placed upon the study of the abnormal personality. The goals of the course will include: to develop in students a better understanding of the abnormal and complex types of behavior evidenced among members of various societies and to guide the student in learning methods to relate theories, concepts, and research findings to one's own potential in living more effectively with oneself and others. To attain these educational ends, students will be focusing their attention on contemporary social trends and phenomena and their relationship to an individual's mental health and on a critical examination of the structure of the human psyche in familiarizing themselves with different psychoanalytic theories including those of Sigmund Freud and Carl Jung, to better realize how the personality functions both consciously and unconsciously.

AMERICAN GOVERNMENT

0.5 credit, grade 11 (REQUIRED)

This is a survey course dealing with national, state and local government, focusing on the executive, legislative and judicial branch of each. Student units will include the U.S. Constitution and periodic consideration of current political/social events.

ADVANCED AMERICAN GOVERNMENT

0.5 credit, grade 11

Prerequisite: Teacher Recommendation. This is a survey course in American government concentrating on student writing skills, emphasizing analytical thinking skills and the application of the students' government knowledge to real life situations, including the study of case studies. Areas studied will include U.S. government institutions, groups, beliefs, and ideas that constitute U. S. political reality. Accelerated reading lists and writing demands will be utilized.

AP GOVERNMENT AND POLITICS

1.0 credit, grades 11-12

Prerequisite: Application Process. AP Government and Politics will give students an analytical perspective on government and politics in the United States. This course will include both a study of general concepts used to interpret U.S. politics and an analysis of specific examples. Students will develop familiarity with the various institutions, groups, beliefs, and ideas that constitute U.S. politics, as well as explore theoretical perspectives and explanations for various

behaviors. The course will involve expository, analytical, and argumentative writing; students will be expected to engage in outside readings selected from a reading list in addition to day to day class assignments. AP Government & Politics will provide a rigorous study of the American political system and should be selected by students eager to engage in such a study. (This class fulfills the 11th grade graduation requirement and may also be taken as an elective in 12th grade)

AP MACROECONOMICS

0.5 credit, grades 11-12

Prerequisite: Economics or AP Microeconomics. AP Microeconomics is a course designed to provide students with a thorough understanding of the principles of economics in examining aggregate economic behavior. Students taking the course can expect to learn how the measures of economic performance, such as GDP, inflation and unemployment, are constructed and how to apply them to evaluate the macroeconomic conditions of an economy. Students will also learn the basic analytical tools of macroeconomics, primarily the aggregate demand and aggregate supply model and its application in the analysis and determination of national income as well as evaluating the effectiveness of fiscal policy and monetary policy in promoting economic growth and stability. Recognizing the global nature of economics, students will also have ample opportunities to examine the impact of international trade and international finance on national economies. Various economic schools of thought are introduced as solutions to economic problems are considered.

AP MICROECONOMICS

0.5 credit, grades 11-12 (This course will fulfill the .5 credit economics requirement.)

Prerequisite: Social Studies teacher signature. The purpose of an AP course in microeconomics is to give students a thorough understanding of the principles of economics that apply to the functions of individual decision makers, both consumers and producers, within the economic system. It places primary emphasis on the nature and functions of product markets and includes the study of factor markets and the role of government in promoting greater efficiency and equity in the economy.

AP PSYCHOLOGY

0.5 CREDIT, GRADES 11-12

Prerequisite: Introduction to Psychology, Part 1 or Departmental approval. The AP Psychology course is designed to introduce students to the systematic and scientific study of the behavior and mental processes of human beings and other animals. Students are exposed to the psychological facts, principles, and phenomena associated with each of the major subfields within psychology. They also learn about the ethics and methods psychologists use in their science and practice.

AP UNITED STATES HISTORY

1.0 credit, grades 10-12

Prerequisite: Application Process. This course will give students an analytical perspective on the history of the United States. It will include both a study of general concepts used to interpret U.S. History and an analysis of specific examples. Students will develop familiarity with the various institutions, groups, beliefs, and ideas that constitute U.S. History, as well as explore theoretical perspectives and explanations for various behaviors. The course will involve expository, analytical, and argumentative writing; students will be expected to engage in outside readings selected from a reading list in addition to day to day class assignments. AP U.S. History will provide a rigorous study of the American political system and should be selected by students eager to engage in such a study. In addition, the course will provide detailed preparation for the Advanced Placement exam which students may take in order to receive college credits. (This class fulfills the 10th grade graduation requirement and may also be taken as an elective in the 11th or 12th grade).

CONTEMPORARY SOCIAL PROBLEMS

0.5 credit, grades 10-12

This course is designed as a discussion class. It offers an introduction to some of the most pressing social problems of today. Students will examine such typically discussed problems as family related crises, social deviance, juvenile delinquency, drug and alcohol abuse and societal discrimination as they affect the student in relating to others and the culture within which they live.

CONTEMPORARY UNITED STATES HISTORY 1

0.5 credit, grade 10 (REQUIRED)

This course is designed to help students understand the development of the United States from 1870 to 1945. It begins with the growth of an industrial, urban, and global America and the Spanish American War. The course continues into the progressive era of Teddy Roosevelt. The events leading up to World War I are studied, the United State's role in the war and the subsequent search for peace. Further studies include the 1920's, the Great Depression of the 1930's, World War II, Roosevelt's handling of the Second World War, and Truman's decision to drop the Atomic bomb.

CONTEMPORARY UNITED STATES HISTORY 2

0.5 credit, grade 10 (REQUIRED)

Contemporary United States History 2 focuses on the post-World War II era 1945 to present. Major topics include the Cold War, the Korean Conflict, the Red Scare, the era of Camelot, Cuban Missile Crisis, the Kennedy assassination, Lyndon Johnson's Great Society, the Civil Rights Movement, the assassinations of Martin Luther King Jr. and Robert Kennedy, America's role in Vietnam, the Nixon administration, Watergate, Gerald Ford and the end of the Vietnam War, the feminist movement of the 1970's, Jimmy Carter and the energy crisis, the Reagan era, the fall of the Soviet Union, the end of the Cold War, Bill Clinton and America's role as the dominant super power, and the September 11, 2001 terrorist attacks.

CURRENT GLOBAL ISSUES

0.5 credit, grade 12

This course is an elective designed for seniors who have completed all Social Studies requirements. The course will provide an opportunity for students to explore current, relevant, global issues that have social, political, economic, military and technological implications for our world and community. Students and instructors will jointly develop specific units of study with an emphasis on individual/group research and presentation. Sample units might include U.S. policy in the Balkans, international terrorism, espionage, drug trade, economic interdependence among nations, etc. The course will allow students to pursue their own self-interests and to better understand global and cross-national issues.

INDEPENDENT STUDY

0.5 credit, grades 11-12

Prerequisite: Application. This course is designed for the student in grades 11-12 who desire a more intensive study in a particular discipline than the general curriculum provides. Before the term begins, each student must submit in triplicate, a work-study plan for the term signed by his/her parents/guardian. Upon approval, copies will be held by the student, the teacher and their counselor. Weekly student-teacher conferences will be arranged to monitor the student's progress. The final project may be evaluated by the entire department before a grade is granted.

INTRODUCTION TO ECONOMICS

0.5 credit, grade 11 (REQUIRED)

This basic introduction to the study of economics will involve a survey of the following areas of economics: consumerism, business organizations, economic philosophy, role of government in the economy, money and banking and international trade.

INTRODUCTION TO PSYCHOLOGY, Part 1

0.5 credit, grades 9-12

This course is an introduction to the study and field of psychology. Students will be presented a variety of different ideas, theories and research studies from both past and present. The course aims to develop a curiosity for further study and to assist the student in viewing human behavior patterns in a scientific manner. Topics covered in part 1 include: 1) what is psychology, 2) the biology of the mind, 3) nature/nurture and human diversity, and 4) developmental psychology.

INTRODUCTION TO PSYCHOLOGY, Part 2

0.5 credit, grades 9-12

Prerequisite: Introduction to Psychology, Part 1. This course is an introduction to the study and field of psychology. Students will be presented a variety of different ideas, theories and research studies from both past and present. The course aims to develop a curiosity for further study and to assist the student in viewing human behavior patterns in a scientific manner. Topics covered in part 2 include: 1) consciousness and the mind, 2) sensation and perception, 3) learning and memory, and 4) thinking, language, and intelligence.

INTRODUCTION TO SOCIOLOGY

0.5 credit, grades 10-12

Sociology is the study of human relationships. The intent of this course is to introduce the basics of sociology through the student of concepts, principles, and sociological theories. The students will think like sociologists, enabling them to view their own lives within a global social and historical context. The students will be exposed to a wide variety of case studies from cross-cultural and historical sources.

LEADERSHIP DEVELOPMENT WORKSHOP

1.0 credit, grades 9-12

Prerequisite: Application process. Student Council is designed as a center for the communication of ideas of students, faculty, administration and the community. Membership in council requires a student to have a desire to help improve his/her school environment through special activities sponsored by the council. Projects include the study of problems

within the school, service projects when council is called upon to help in activities such as curriculum programs, sporting events, etc. Council is responsible for the yearly homecoming activities each fall. Due to the nature of council activities, membership is limited to students who can commit themselves to occasional after school and evening hours.

MONEY AND INVESTMENTS

One term, 0.5 credit, grades 11-12

Prerequisite: Economics. This course will introduce the student to the world of investments and to everyday economic issues. Areas covered will be personal record keeping, taxes, risk management, real estate, securities, and retirement planning.

TWENTIETH CENTURY AMERICAN POPULAR CULTURE

0.5 credit, grades 10-12

This course is an exploration of the 20th century through the lens of American popular culture. We will explore American history through a focus upon the major areas in mass entertainment: sports & games, fashion, food & drink, motion pictures, radio, music, television and the “the way we live”. Through readings, videos, and discussion, we will consider how each of these entities has both shaped and been shaped by critical developments of modern American history.

WORLD HISTORY

1.0 credit, grade 9 (REQUIRED)

World History focuses on the interaction between diverse human societies primarily over the past 1,500 years. The objective is for students to develop a greater comparative understanding of the ways in which human groups have come into contact and interacted with one another, including systems of communication, migration, commercial exchange, conquest, and cultural diffusion. The course will focus heavily on Asia, Africa, Latin America, the Middle East, Europe and North America. This class provides a global perspective on the past. Understanding a global perspective has become an essential tool of citizenship. We will examine the development of political, social, economic, and cultural traditions that have shaped the world since the fall of the Roman Empire.

SPECIAL EDUCATION

(Placement to be determined by an Individual Educational Planning Team - IEPT)

IMAGE

4.0 credits, (post high school certificate program for 18-26 year olds)

The IMAGE program is designed to meet the needs of special education students with cognitive impairments, aged 18-26 years old. These students spend the first half of their day in school focusing on daily living skills and the other half of their day participating in Work Based Learning. This program aims to improve the quality of life for these students by developing social and independent living skills as well as developing hobbies and other interests.

LRC AMERICAN THEMES

1.0 credit, grades 9-12

The basis of this course is to trace the development of American thought from the twentieth century to the present. Students will read and analyze a variety of literary works by American authors, including the novel, short story, poetry and drama. The course will examine the American experience, focusing on themes such as the American Dream, the Language and Literature of War, the Environment, and Identity and Self-Discovery. The composition portion of the class will present a sequential treatment of the writing process from prewriting through revising. Instruction in the practical use of the language, including vocabulary study, grammar, and mechanics will also be provided.

LRC BIOLOGY

1.0 credit, grades 9-12

An ecological approach is used to study the interrelationships of organisms. Units are also included covering cellular biology, ecology, living things, genetics, evolution, and invertebrate anatomy. Laboratory experiments will provide hands on experience reinforcing these concepts.

LRC BUSINESS FOUNDATION SKILLS

1.0 credit, grades 9-12

Students will build a foundation for employment by exploring various work skills including the job search, interview skills, resume and career research. Students will also work at developing a positive work ethic and personal management techniques including organization, budgeting, and other aspects of finance. After exploring several career pathways, students will design a four year educational plan that maximizes their future goals. Additionally, students will research various potential post-secondary programs and colleges, finding what might best fit their lifestyle and career pathway. Students will also prepare for CFE requirements and explore the LOHS game plan as well as enhance their skills in Microsoft Office software and typing for both speed and accuracy.

LRC CLASSIC AMERICAN LITERATURE

1.0 credit, grades 9-12

This two-term course includes thematic units such as Drama, Language as a Tool, Human Nature, Life Stories, and Science Fiction. These units focus on the four major areas of reading, composition, grammar and vocabulary. Students will study the short story, poem, novel, play, non-fiction and media as distinct art forms exhibiting certain structural and thematic features that can be recognized and analyzed. The composition portion of the course presents a sequential treatment of the writing process from prewriting through revision. Instruction in the practical use of language including vocabulary study, grammar and mechanics is also provided.

LRC COMPOSITION

1.0 credit, grades 9-12

This course will develop practical writing skills for use in everyday life. Students will learn and utilize the writing process. Also included is exposure to various short stories and novels.

LRC CONCEPTS IN GEOMETRY

1.0 credit, grades 9-12

This course is an introduction to topics in Geometry and students will study plane geometry which will include points,

lines, angles, perimeter and properties of triangles, quadrilaterals, and polygons. Students will also study solid geometry which will include surface area and volume. Showing students the real world connections to shapes will be emphasized.

LRC CONSUMER MATH

1.0 credit, grades 9-12

This course reviews basic operations with whole numbers, decimals and fractions using mental estimation, paper-and-pencil calculations, and calculations with a calculator. These operations are then used in many consumer applications including work-related applications, banking applications, and every day recreational and living spending applications. Lessons covering statistics and data analysis will be covered to help prepare students for the future.

LRC CONTEMPORARY U. S. HISTORY 1

0.5 credit, grades 9-12

This course helps the students recognize and identify the major developments in the United States from 1878-1945. Students will explore the roles of minorities in US history. Students will learn basic skills of map usage and time lines.

LRC CONTEMPORARY U. S. HISTORY 2

0.5 credit, grades 9-12

This course focuses on the post-World War II years (1945-present). Major topics include: the Red Scare, the Korean Conflict, the Eisenhower 50's, Coming of the Space Age and the modern history of the 60's, 70's, 80's and 90's, including the Vietnam Conflict and Civil Rights campaigns.

LRC CONTEMPORARY WORLD LITERATURE

1.0 credit, grades 9-12

This course covers world literature from both the 20th and 21st centuries. Emphasis is placed on the critical reading and analysis of a variety of literary works. Students become familiar with important writers of the times. In addition, students explore careers and educational institutions. Focus is also on the process of writing with emphasis on organization, sentence structure and word choice.

LRC ECOLOGY

0.5 credit, grades 9-12

This course is the study of ecology, including ecosystems, natural resources and pollution. The course will also look at the environmental problems of today and how they affect our lives and the future of our planet. Students will take part in a recycling program and study things we can do today to protect our resources for the future.

LRC ECONOMICS

0.5 credit, grades 9-12

The basic introduction to the study of economics will involve a study of the following areas: individual and household choices, role of government, business choices, economic systems and trade.

LRC ELA LAB

0.5 credit, grades 9-12

This course is designed for special education students who struggle in English Language Arts (ELA). Students will practice word recognition skills, build vocabulary knowledge, improve reading fluency and learn reading comprehension strategies. Writing strategies will also be incorporated. This course is in addition to the students regular ELA course and will be an elective credit.

LRC ENGLISH - PREVOCATIONAL

0.5 credit, grades 9-12

This course emphasizes basic survival reading and writing skills.

LRC FOOD SERVICE

One term, 0.5 credit, grades 9-12

This course is designed to provide instruction in meal planning, shopping, food preparation, measurement, kitchen safety, and health.

LRC GOVERNMENT

0.5 credit, grades 9-12

This course covers an understanding of the facts about local, state and federal governments in the United States. Students will study the Constitution and laws as they relate to the Constitution. Students will explore ways in which they can actively take part in our government as adult citizens.

LRC HEALTH

0.5 credit, grades 9-12

This course includes information on personal hygiene, communicable diseases, the body systems, mental health and first aid in emergency situations. The use, abuse and effects of tobacco, alcohol, drugs and steroids will be studied. Sex education including contraception and AIDS facts and prevention will be discussed.

LRC INDEPENDENT LIVING

1.0 credit, grades 9-12

This course will give the student an awareness of different leisure and recreational activities in the community, understanding the use of local transportation and basic shopping skills. It will also include how to locate an apartment or other living quarters, community resources and an understanding of family relationships and personal values.

LRC INDIVIDUALIZED CURRICULUM

0.5 credit, grades 9-12

Prerequisite: IEPT This course is designed for LRC students in grades 9-12 who are in need of a specific LRC course, but are unable to take it due to single selections that will not fit into his/her schedule. This option can be utilized when a LRC student needs an equivalent LRC course unavailable at that time. The caseload teacher will make arrangements with the student and a TC or LRC teacher to take the respective LRC course independently. The teacher-in-charge will utilize the appropriate course content standards, performance indicators, and assessment tools for that particular course.

LRC LIFE SKILLS

0.5 credit, grades 9-12

Students with social work goals will explore a wide variety of topics to assist with life skills. Topics include social and communication skills, resume building, mock job applications and interviews, hygiene, appropriate workplace attire, etc. Community based experiences will also be included to aid students with attaining and practicing skills discussed. Students may take this course for more than one term.

LRC MATH LAB

0.5 credit, grades 9-12

This course is designed for special education students with a history of difficulty in math. The LRC Math Lab will provide individualized remediation and practice in basic operations with whole numbers, decimals, and fractions. Students already proficient in these areas but struggling with algebraic concepts will study the main ideas of number sense, algebra, probability and statistics. Various strategies to write and solve math problems and manipulate equations will be presented and practiced. This course is to be in addition to a student's regular math course and will be an elective credit.

LRC MATH STRATEGIES

1.0 credit, grades 9-12

This course is the study of different strategies used to write and solve math problems. Patterns, relationships and functions of numbers will be explored along with number sense. Students will practice math skills and learn techniques to remember math processes. Students will also learn to use a calculator properly to solve multi-step problems and identify situations in which one could be used.

LRC PHYSICAL SCIENCE

1.0 credit, grades 9-12

This course is designed to expose students to a variety of topics in the area of Physical Science. Students will learn through experience how ideas are developed and tested using scientific procedures and processes. Topics include: motion, matter, elements, compounds, atoms, magnetism, electricity, sound and light. An emphasis will be on how to apply science to everyday life situations.

LRC PRE-ALGEBRA 1

1.0 credit, grades 9-12

This course is designed for students who require remediation of basic mathematic skills prior to taking LRC Pre-Algebra 2. Students will be provided with in-depth, sequential skill building of foundational math concepts. Multisensory strategies will promote problem-solving proficiency, vocabulary development, and mathematical knowledge. The content focuses on rational numbers including: fractions, decimal numbers, percentages, exponents, negative numbers, estimation,

data and statistics, two-dimensional geometry, and probability.

LRC PRE-ALGEBRA 2

1.0 credit, grades 9-12

Prerequisite: LRC Pre-Algebra 1, equivalent content in middle school, or IEP decision. This course is designed for students who require remediation of mathematic skills prior to taking pre-algebra in general education. Students will be provided with in-depth, sequential skill building of foundational math concepts. Multisensory strategies will promote problem-solving proficiency, vocabulary development, and mathematical knowledge. The content focuses on algebraic thinking including: properties, simple algebraic expression, inequalities, functions, square roots, irrational numbers, estimation, ratio and proportion, coordinate graphs, slope, and three-dimensional geometry. Students will also apply previously learned concepts and engage in critical thinking to solve multi-step problems needed for higher mathematics or the working world.

LRC PRE-VOCATIONAL WORK EXPERIENCE 1

0.5 credit, grades 9-10 (or IEP team decision for 11-12)

This course, taught in a volunteer setting, introduces the universal work skills, habits, and attitudes that are necessary for independent employment. The course is based on the Addressing Unique Educational Needs (AUEN) framework and focuses on the 21st Century Skills of listening, observation, teamwork, communication skills, and work habits. Occupational inventories are employed to survey student interest and aptitude.

LRC PRE-VOCATIONAL WORK EXPERIENCE 2

0.5 credit, grades 11-12

Prerequisite: LRC Pre-Vocational Work Experience 1 or IEP team determination. This course, taught in a volunteer setting, develops the universal work skills, habits, and attitudes that are necessary for independent employment. The course is based on the Addressing Unique Educational Needs (AUEN) framework and focuses on the 21st Century Skills of teamwork, workplace effectiveness, business etiquette, and the job search. Occupational inventory data are employed to plan and direct student work experiences.

LRC READING COMPREHENSION

1.0 credit, grades 9-12

This is an individualized reading course that encourages and develops reading comprehension and writing skills at each student's level.

LRC SCIENCE - PRE-VOCATIONAL

0.5 credit, grades 9-12

This course deals with basic science survival skills that students will need to know in everyday life. Instructional content and methods address the individual needs of the student.

LRC SPEECH

0.5 credit, grades 9-12

Speech is a required class designed to develop self-confidence and improve communication skills. The communication experiences are attained through formal and informal speaking experiences. This course is designed to help students understand the relationship between language meaning and decision-making. The class will expose all the students to the various communication areas.

LRC STUDY SKILLS I

LRC STUDY SKILLS II

LRC STUDY SKILLS III

LRC STUDY SKILLS IV

0.5 credit each term, grades 9-12

This course helps students develop strategies that will improve their performance in general education. This is an elective credit.

LRC SURVIVAL ENGLISH

0.5 credit, grades 9-12

This course includes reading basic signs, reading schedules, maps, writing, following directions, and filling out forms.

LRC T.E.A.M. - Together Everyone Achieves More

0.5 credit, grades 9-12

This class is a proactive approach to behavior management. This course will meet the affective needs of the student and

reinforce social skills as needed. Students will demonstrate the ability to manage their behavior in any social setting. This is an elective credit.

LRC TECHNOLOGY

1.0 credit, grades 9-12

LRC Technology students will familiarize themselves with the use of the Microsoft Office Software and internet exploration as well as enhance their typing accuracy and speed. They will also explore and prepare for their future in the world of work, focusing on job searching, interview skills, finance, organization and post secondary options that best fit their lifestyle. They will research information in their chosen Career Pathway, learn problem solving, decision making, and critical thinking skills.

LRC VOCATIONAL ENGLISH

1.0 credit, grades 9-12

This course has been specifically designed to help students develop employability skills. An emphasis will be placed on effective communication skills in both an oral and written form which are necessary skills for the world of work today. An emphasis will also be placed on an understanding of employment benefits.

LRC VOCATIONAL MATH

1.0 credit, grades 9-12

This course covers a study of timecards, paychecks, money, measurement, and math calculation as they relate to business or the work place.

LRC WORK BASED LEARNING

0.5 to 1.0 credits, grades 9-12

This course is for students whose vocational needs and interests cannot be met in regular, adapted or vocational programs.

Students are placed at a community site for the purpose of receiving vocational instruction developed cooperatively between the employer and special education staff. Development of employability skills and job exploration will be emphasized. Students may or may not receive pay during this work experience. This work experience does not necessarily relate to a student's career interest or training. Students may elect to take this course for more than one term. A training agreement and plan are required. Students must fill out an application form and have coordinator's approval.

LRC WORLD STUDIES

1.0 credit, grades 9-12

LRC World Studies will incorporate the history of the world with what is going on in the world today. International economics, world geography and world governments of the past and present will be priorities. Curriculum will be adapted to meet the needs of the special education student.

WORLD LANGUAGES

Modern language study combines language as well as customs and culture of the country. All students are encouraged to study a modern language of his or her choice. Many colleges are now requiring two years of language for college entry and some are requiring language for graduation. Completing four terms of language study at Lake Orion may fulfill your college requirement. Colleges will give you a placement test. Some Orion students have earned college credit or have placed out of first or second year college classes because of their high school language classes. At this time, it is in your best interest to research a few colleges, so that you may make appropriate choices.

FRENCH 1

1.0 credit, grades 9-12

In this two-term course, students will learn to form basic conversational phrases. Phrases will resemble those of English in word order and construction, enabling students to communicate, not only with each other, in class, but also with people they may meet for the first time. Students will be introduced to a basic level of speaking, writing, reading and comprehension of the French language. A cultural study of the French speaking world will be carefully integrated with the related skill-learning activities used throughout the year.

FRENCH 2

1.0 credit, grades 9-12

Prerequisite: French 1 and incoming freshmen selecting French 2 need the signature of middle school French 1 teacher. Do you know that French is spoken on every continent on earth? If you want to travel either around the country or around the world (from New Orleans and Montreal to French West Africa), how would you like to be able to communicate with people whose style of living and cultural values differ greatly from your own? French 2 will give you this opportunity. You will be increasing your ability to express yourself orally as well as on paper, and you will also be taken into a larger sphere of the world about you, into the world of work and accomplishment, of plan and fulfillment, the more adult world for which you are preparing. You will be getting acquainted with the language and learning information that will highlight the use of French as a truly global language.

INTERMEDIATE FRENCH LANGUAGE AND CULTURE

1.0 credit, grades 9-12

Prerequisite: French 2. This course is offered in school years beginning with an even year. Intermediate French Language and Culture allows students to express more about themselves and their personal experience while learning about the French home, food, schools, leisure time, history, health, and physical fitness. Students will participate in cultural exploration and projects. Student will also expand their language skills using acquired vocabulary and grammar.

INTERMEDIATE FRENCH GRAMMAR AND LITERATURE (Not offered in 2011-2012)

1.0 credit, grades 9-12

Prerequisite: French 2. This course is offered in school years beginning with an odd year. Intermediate French Grammar and Literature offers a more in depth look at grammar, reading, and writing the French language. Students will discuss their own youth, personal preferences and relationships in the target language. They will explore movies, music, literature and other forms of media in French. Students will learn how to better summarize and express their opinions and communicate in French to enhance their language skills.

ADVANCED FRENCH LANGUAGE AND CULTURE

1.0 credit, grades 9-12

Prerequisite: Intermediate French Language and Culture and Intermediate French Grammar and Literature. This course is offered in school years beginning with an even year. Advanced French Language and Culture explores French speaking Europe and Africa. Students get a taste of fashion, food, friends, and family. Students will develop their ability to use more complex verbs, vocabulary, and grammatical structures. Students will also increase their ability to

speak French using more complex dialogue.

ADVANCED FRENCH GRAMMAR AND LITERATURE (Not offered in 2011-2012)

1.0 credit, grades 9-12

Prerequisite: Intermediate French Language and Culture and Intermediate French Grammar and Literature.

This course is offered in school years beginning with an odd year. Advanced French Grammar and Literature takes students on a journey into Africa, North America, and the Caribbean. Students take a safari, explore undersea life and read rich text using authentic vocabulary and more complex verb conjugations. Students will also increase their ability to speak French using interesting phrases and dialogues.

GERMAN 1

1.0 credit, grades 9-12

German 1 students will speak, read, write, and understand basic German. Students will become comfortable describing themselves, family and friends, free time activities, rooms and places, schools and clothing. Students will be able to successfully navigate survival situations including asking personal questions, shopping, offering food and drink, expressing wishes and making plans. Students will explore and experience the culture of German-speaking countries.

GERMAN 2

1.0 credit, grades 9-12

Prerequisite: German 1. German 2 students will increase their basic understanding of the German language and grammar and strengthen their listening, speaking, reading and writing skills. Students will become comfortable describing chores, shopping, traveling, movies, cultural events, birthdays and parties. Students will be able to successfully navigate survival situations including asking for help, shopping, asking for and giving directions, using the telephone and extending and responding to invitations. Students will continue to explore and experience the culture of German-speaking countries.

GERMAN CONVERSATION AND COMPOSITION (Not offered in 2011-2012)

1.0 credit, grades 9-12

Prerequisite: German 2. This course is offered in school years beginning with an even year. Next offered: **2012-2013**. In German Conversation and Composition, students will increase their basic understanding of the German Language and grammar and strengthen their listening, speaking, reading and writing skills. Students will become comfortable discussing and writing about current events, contemporary figures, geography, educational systems, and the influence of the media. Students will be able to successfully navigate survival and everyday situations. Students will continue to explore and experience culture of German-speaking countries. Students will explore a variety of current and authentic resources using the internet and other forms of media. Students will use the internet, email, blogs and other online resources to demonstrate, improve and enhance their language skills.

GERMAN LANGUAGE AND CULTURE FOR PROFESSIONS

1.0 credit, grades 9-12

Prerequisite: German 2. This course is offered in school years beginning with an odd year. Next offered: 2011-2012. In German Language and Culture for the Professions, students will improve their communicative skills in German while focusing on the knowledge and use of German in the professional world. Students will become comfortable discussing and writing about careers, future plans, historical events, economics, and religious and personal holidays. Students will be able to make purchases and appointments and solve problems. Students will prepare a German resume and participate in mock interviews and business and travel scenarios. Students will be able to successfully navigate survival, everyday and some unfamiliar situations. Students will explore a variety of current and authentic resources using the internet and other forms of media. Students will use the internet, email, blogs and other online resources to demonstrate, improve, and enhance their language skills.

ADVANCED TOPICS IN GERMAN LANGUAGE AND CULTURE (Not offered in 2011-2012)

1.0 credit, grades 9-12

Prerequisite: German Language and Culture for Professions AND German Conversation and Composition.

In Advanced Topics of German Language and Culture, students will become more fluent in German. Conversational skills will be improved through more frequent interactions based on real life situations. Students will improve their reading, writing, and higher-order thinking skills by reading and responding to a variety of authentic German texts. Selected readings will be based upon students' personal and professional interests. Students will improve their knowledge of Germanic cultures by comparing and contrasting them to their own. Students will continue to use the internet, email, blogs and other online resources to demonstrate, improve, and enhance their language skills.

ADVANCED GERMAN GRAMMAR AND COMPOSITION (Not offered in 2011-2012)

1.0 credit, grades 9-12

Prerequisite: Advanced Topics of German Language and Culture. In Advanced German Grammar and Composition, students will further develop their reading, writing, listening, and speaking skills. More emphasis will be placed on German history and culture in order to help students to live and work in a German-speaking country. If it is possible, the course will be tailored to students' individual interests and/or projected future needs with the language (such as in business, politics, literature, or in education). Students may consider preparing for and taking the German AP exam. Students may be able to test out of some college courses.

JAPANESE 1 (Not offered in 2011-2012)

1.0 credit, grades 9-12

In Japanese 1, students will learn two new writing systems, hiragana and katakana. These are very challenging and require a lot of practice at home. You have to be willing to do extra work to memorize these writing systems. We also study the culture of Japan and learn greetings, numbers, time and basic phrases and grammar. You need to be disciplined in your study habits in order to be successful in this class.

JAPANESE 2 (Not offered in 2011-2012)

1.0 credit, grades 9-12

Prerequisite: Japanese 1. You must have a working knowledge of both hiragana and katakana in order to take Japanese 2. We use these writing systems to learn Kanji. We will learn approximately 60 different Kanji. They each have three to four different uses. This will require memorizing the correct stroke order, English meaning and the hiragana for each one. We continue to learn about the Japanese culture and more grammatical structures.

MODERN LANGUAGE AND TECHNOLOGY

0.5 credit, grades 9-12

Prerequisite: Two years of a modern language. Technology offers new opportunities to Modern Language students. In this class, computers will enable you to correspond in the target language, read up-to-date news and gain insights on contemporary issues across cultures. Cooperation, goal setting, journal writing and projects are an integral part of the class.

SPANISH 1

1.0 credit, grades 9-12

Students will speak, read, write, and understand basic Spanish. Students will become comfortable describing family members, friends, interests and personal characteristics. Specific topics include greetings and courtesy expressions, numbers, telling time and expressing the days, months, seasons and the date. Students will begin to explore the Hispanic culture.

SPANISH 2

1.0 credit, grades 9-12

Prerequisite: Spanish 1 and incoming freshmen selecting Spanish 2 need the signature of middle school Spanish 1 teacher. The Spanish 2 student will expand his/her understanding of the language and its grammar. A great emphasis is placed on in-class oral participation in order to improve communication skills in the target language. Some topics covered are: foods, places in the school, activities in school, sports and favorite leisure-time activities, weather, places in the neighborhood and places in the city, daily routines and bargaining/purchasing techniques.

SPANISH 3

1.0 credit, grades 9-12

Prerequisite: Spanish 2. Students learn new vocabulary about getting ready, chores, professions, nature, camping, amusement parks, nationalities, cars and travel. Students keep a journal in the past tense writing about their weekend activities starting at the ten week point. A power point career project is done in the first ten weeks and a travel web page is done in the second ten weeks. Paired and group work are used to practice vocabulary and grammar concepts. Students are expected to produce questions for each lesson, read passages, answer questions, do interviews and write extensively in Spanish. Online practice is available. Cultural topics include: Mexican youth and holidays.

SPANISH 4

1.0 credit, grades 9-12

Prerequisite: Spanish 3. Spanish 4 students are encouraged to communicate in guided and informal discussions. Reading and writing are stressed at this level. A high level of oral participation in the target language is expected. There is a focus on students developing the ability to discuss a wide variety of activities using past tenses. Specific topics include: leisure activities, spending and saving habits, childhood activities, environmental issues and immigration issues.

SPANISH 5

1.0 credit, grades 9-12

Prerequisite: Spanish 4. Spanish 5 will give students a chance to become more fluent in Spanish. Conversation, grammar study, and readings will be used to help students acquire Spanish. Cultural studies will help students access knowledge and skills necessary to function in a global marketplace. Employers are looking for language proficiency together with a career.

SPANISH 6

1.0 credit, grades 9-12

Prerequisite: Spanish 5. By taking Spanish 6, students will increase their chance for success in college language courses.

Speaking, reading, writing and listening activities will help further the acquisition of Spanish. Students may be able to test out of some college courses.

DIVERSIFIED CURRICULUM COURSE DESCRIPTIONS

Lake Orion High School offers a variety of programs that enhance our curricular offerings. You may want to consider some of the following:

- Advanced Placement
- English Immersion Program
- International Academy
- Oakland Schools Technical Center
- School-To-Work Opportunities: Career Focused Education

ADVANCED PLACEMENT

The Advanced Placement (AP Program) sponsored by the College Board, was created over 50 years ago as a cooperative educational endeavor between secondary schools and colleges/universities. It exposes high school students to college level material through involvement in an AP or Honors course, and it gives them the opportunity to demonstrate that they have mastered it by taking an AP examination. The AP program enriches the secondary school experience of students who are willing and able to apply themselves to college level studies and provides the means for colleges to grant credit, placement, or both, to students who have successfully done so.

Participation in an AP course is based upon: the student's preparation for the course, their willingness and ability to meet its academic challenges, and the level of support they have from family and friends.

The following are a list of the AP Courses offered at LOHS:

AP Art Portfolio
AP Biology
AP Calculus
AP Chemistry
AP English 11
AP English 12
AP Government
AP Macroeconomics
AP Microeconomics
AP Physics
AP Psychology
AP Statistics
AP United States History
Computer Science AP

Courses that may also prepare students for taking an AP Exam are:

Advanced French Language & Culture
Advanced French Grammar & Literature
Advanced German Grammar & Composition
Advanced Topics in German Language & Culture
CAD Advanced
Spanish 5
Spanish 6

ENGLISH IMMERSION PROGRAM

Support staff is available to work with limited English students to help them assimilate into the high school program. Students who have no English skills may be part of the ESL (English as a Second Language) program housed at the CERC Building. Contact a counselor to coordinate these services.

INTERNATIONAL ACADEMY

1020 East Square Lake Road
Bloomfield Hills, MI 48304-1957
(248) 645-4820
FAX (248) 645-4826

CONSIDERING THE INTERNATIONAL ACADEMY

The International Academy is a public, tuition-free high school of choice for students of 12 Oakland County school districts collaborating in consortium with university and business partners. Commencing with ninth grade, it provides a unique blend of rigorous academic standards and practical, career-related learning throughout the 205-day school year.

Featuring the world-recognized International Baccalaureate as center-piece of its curriculum, it concentrates on preparing students for success in global marketplace.

PROGRAM FEATURES

- International curriculum standards
- Self-directed product teams
- Enrichment weeks
- Career internships and mentorships
- Technology rich environment
- Tutorial services
- Community service and co-curricular requirements
- Graduate assistants as teacher aides
- Supportive and collaborative climate

OUR MISSION STATEMENT

To promote human potential through productive and cooperative individuals of good character working to achieve democratic structures, an open inter-national economy and cross-cultural understanding.

“High levels of support when matched with high expectations will produce unparalleled achievement.”

OAKLAND SCHOOLS TECHNICAL CAMPUS

Lake Orion High School juniors and seniors have the opportunity to enroll at Oakland Schools Technical Campus (OSTC). They will attend either the morning or the afternoon session along with students from Pontiac, Avondale, Rochester and Oxford school districts. Students will earn four (4) credits at Lake Orion High School and four (4) credits at OSTC per year. Bus transportation is provided for all students attending OSTC.

Oakland Schools Technical Campus – Northeast

1371 N. Perry Street

Pontiac, MI 48340

(248) 451-2700

The programs offered at the Oakland Schools Technical Campus - Northeast in Pontiac are as follows:

- **Business Management, Marketing & Technology (BMMT) OTCBMT**

Four credits per year, one or two year program

In the Business, Management, Marketing and Technology cluster, students learn Information Technology skills in Networking and PC Troubleshooting., Web Development, Database Administration and Programming. Within these career opportunities, students can earn the following certifications: Certified Internet Webmaster (CIW), A+, Network +, and Microsoft Certified Professional (MCP), among others. In addition, in the Business Management and Ownership career opportunity, students learn entrepreneurship skills that provide them with the knowledge necessary to manage and run their own business. They can also participate in an online partnership with Macomb Community College, earn college credits and a Certificate of Entrepreneurship over two years. Students may also choose to complete a real estate course and sit for their Michigan real estate license. All students will have the opportunity to earn Microsoft Certified Application Specialist (2007) certification and a Customer Service Certification.

- **Construction Technology OTCCON**

Four credits per year, one or two year program

This cluster provides students with opportunities to learn skills to work in all areas of the construction field including: carpentry, interior/exterior finishing, electrical, plumbing, masonry, heating, ventilation, air conditioning and refrigeration (HVAC), home repair, building and grounds maintenance, and construction management.

- **Cosmetology OTCCOS**

Four credits per year, two year program

This course includes extensive hands-on instruction using an advanced integrated curriculum in academics, technical, and workplace skills. Core skills include entrepreneurship, salon ecology, safety and electricity, general anatomy, and chemistry. Technical skills include hair care and treatments, esthetics, nail technology, hair cutting and hair coloring. Successful completion of the Cosmetology program allows the student to apply for state licensing exams (requires post secondary attendance).

- **Culinary Arts/Hospitality OTCCAH**

Four credits per year, two year program

This cluster prepares students for a broad background of skills and knowledge utilizing industry based tools, equipment and technology required to be productive in a modern commercial kitchen with applications in business procedures for today's professional. Computer systems are used to maintain inventory, place orders, and produce communications through simulations of actual industry situations. Training is provided in cooking, menu design, staffing and scheduling, food preparation, and financial management. Additionally, students will contribute to the day-to-day operations of a restaurant and catering services. Travel, tourism and hospitality fundamentals are also covered in the two-year program.

- **Engineering/Emerging Technologies**

OTCEMT

Four credits per year, one or two year program

This course is an intensive hands-on program designed to prepare students with skills necessary to successfully enter engineering and manufacturing technology careers. In addition to completing core/foundation skills (hydraulics/pneumatics, computerized design processes, robotics, and electricity/electronics) students are trained in high tech engineering technologies including virtual simulation, computerized manufacturing, and rapid prototyping.

- **Health Sciences**

OTCHMT

Four credits per year, one or two year program

The Health Sciences cluster provides students with core and foundation skills for health fields such as medical assisting, laboratory, medical office technology, dental assisting, optical technology, nursing, and pharmacy. Also, students will gain an understanding in all areas of the health core curriculum including safety, anatomy and physiology, asepsis, ethics, medical terminology, pharmacology, prevention and office procedures. Additional training opportunities are available in phlebotomist, EKG technician, sports safety, radiology aide, surgical technical aide, respiratory therapy aide, occupational therapist, physical therapist, dietary aide, and medical records and billing.

- **Transportation Technology**

OTCTR

Four credits per year, one or two year program

The Transportation Cluster provides an intensive hands-on program designed to prepare students with skills necessary to successfully enter into the transportation careers. In this one or two year course the student will gain core and foundation skills related to gas and diesel engine theory, auto collision repair and refinishing, basic mechanical principle and the use of computerized diagnostic tools and equipment. Students will gain competency in safety concepts, equipment operation, and measuring. Safety, shop orientation, and tools and equipment are also part of the curriculum. The transportation cluster has National Automotive Technicians Education Foundation (NATEF) and Automotive Service Excellence (ASE) certification in Automotive Technology and Collision Repair.

Additional vocational-technical programs are available at Oakland Schools Technical Campus – Northwest located in Clarkston. If a student/parent is interested in career programs at OSTC - Northwest, they need to contact their counselor. **Bus transportation is available for all students attending OSTC.**

Oakland Schools Technical Campus – Northwest
8211 Big Lake Road
Clarkston, MI 48346
248-922-5800

The programs offered at the Oakland Schools Technical Campus – Northwest in Clarkston are as follows:

Biotechnology and Environmental Science **OTCBES**
Four credits per year, one or two year program

This one or two year program is designed to prepare students with the skills necessary to successfully enter one or more of the following career areas: Natural Resources Systems, Environmental Systems, Animal Systems, and Plant Systems. Agribusiness and marketing skills, customer service, and biotechnology are provided as a significant portion of all curriculum areas. Technology is a significant component of the curriculum in the areas of aquaculture, hydroponics, tissue culture, and data transmission networking (meteorology, commodities, and future trading). The curriculum also includes greenhouse, organic garden, landscape management, schoolyard wildlife habitat, rain forest, animal laboratory, floristry, poultry habitat and small business management.

• **Business Management, Marketing & Technology (BMMT)** **OTCBMT**
Four credits per year, one or two year program

In the Business, Management, Marketing and Technology cluster, students learn Information Technology skills in Networking and PC Troubleshooting, Web Development, Database Administration and Programming. Within these career opportunities, students can earn the following certifications: Certified Internet Webmaster (CIW), A+, Network +, and Microsoft Certified Professional (MCP), among others. In addition, in the Business Management and Ownership career opportunity, students learn entrepreneurship skills that provide them with the knowledge necessary to manage and run their own business. They can also participate in an online partnership with Macomb Community College; earn college credits and a Certificate of Entrepreneurship over two years. Students may also choose to complete a real estate course and sit for their Michigan real estate license. All students will have the opportunity to earn Microsoft Certified Application Specialist (2007) certification and a Customer Service Certification.

• **Construction Technology** **OTCCON**
Four credits per year, one or two year program

This cluster provides students with opportunities to learn skills to work in all areas of the construction field including: carpentry, interior/exterior finishing, electrical, plumbing, masonry, heating, ventilation, air conditioning and refrigeration (HVAC), home repair, building and grounds maintenance, and construction management.

• **Culinary Arts/Hospitality** **OTCCAH**
Four credits per year, two year program

This cluster prepares students for a broad background of skills and knowledge utilizing industry based tools, equipment and technology required to be productive in a modern commercial kitchen with applications in business procedures for today's professional. Computer systems are used to maintain inventory, place orders, and produce communications through simulations of actual industry situations. Training is provided in cooking, menu design, staffing and scheduling, food preparation, and financial management. Additionally, students will contribute to the day-to-day operations of a restaurant and catering services. Travel, tourism and hospitality fundamentals are also covered in the two-year program.

• **Engineering/Emerging Technologies** **OTCEMT**
Four credits per year, one or two year program

This course is an intensive hands-on program designed to prepare students with skills necessary to successfully enter engineering and manufacturing technology careers. In addition to completing core/foundation skills (hydraulics/pneumatics, computerized design processes, robotics, and electricity/electronics) students are trained in high tech engineering technologies including virtual simulation, computerized manufacturing, and rapid prototyping.

- **Health Sciences**

OTCHMT

Four credits per year, one or two year program

The Health Sciences cluster provides students with core and foundation skills for health fields such as medical assisting, laboratory, medical office technology, dental assisting, optical technology, nursing, and pharmacy. Also, students will gain an understanding in all areas of the health core curriculum including safety, anatomy and physiology, asepsis, ethics, medical terminology, pharmacology, prevention and office procedures. Additional training opportunities are available in phlebotomist, EKG technician, sports safety, radiology aide, surgical technical aide, respiratory therapy aide, occupational therapist, physical therapist, dietary aide, and medical records and billing.

- **Transportation Technology**

OTCTRN

Four credits per year, one or two year program

The Transportation Cluster provides an intensive hands-on program designed to prepare students with skills necessary to successfully enter into the transportation careers. In this one or two year course the student will gain core and foundation skills related to gas and diesel engine theory, auto collision repair and refinishing, basic mechanical principle and the use of computerized diagnostic tools and equipment. Students will gain competency in safety concepts, equipment operation, and measuring. Safety, shop orientation, and tools and equipment are also part of the curriculum. The transportation cluster has National Automotive Technicians Education Foundation (NATEF) and Automotive Service Excellence (ASE) certification in Automotive Technology and Collision Repair.

- **Visual Imaging**

OTCVIS

Four credits per year, one or two year program

Students of the Visual Imaging Cluster will be training towards careers that communicate ideas and information to the public and include the areas of graphic communication, design communication, interactive multimedia/animation, and audio, video and file production skills and processes. This cluster provides training opportunities in screen-printing, press operations and bindery; graphic layout, advertising design and marketing presentation used in “flat art” or the print publishing world. As for the electronically distributed universe, the student will be introduced to audio and video, and interactive media design, and implementation used in radio, DVD, CD-ROM, and the World Wide Web.

SCHOOL TO CAREER OPPORTUNITIES: CAREER FOCUSED EDUCATION

The school-to-careers program is an opportunity for students to experience a career interest area and gain valuable work experience during the high school years. There is a work experience opportunity available for every career and every student. The following are available:

CO-OP (Cooperative Education)

0.5 or more credits, grades 11-12

Pre or Co-requisite: Courses relative to specific co-op

Cooperative Education must be a paid work experience providing students with an opportunity to work in a career interest area while gaining valuable work experience and career development skills. CO-OP incorporates related classroom instruction with field experience under the direction of a certified school-to-work coordinator. Students are required to work a minimum of 10 hours per week and must be at least 16 years of age. Students must work in accordance with all state and federal laws. CO-OP is available to students enrolled in a vocational course: Automotive, CAD, Accounting, Business Management, Face-to-Face, Marketing, Parenting.

INTERNSHIP

0.5 or more credits, grades 11-12

Pre or Co-requisite: Courses relative to specific internship

The Internship program is a work experience opportunity that allows students to earn elective credit, while working in a job that relates to your career interest. This program provides an opportunity for students to gain work experience relative to a career goal, in addition to learning the academic and occupational skills required for the job. Students can earn up to one credit per term doing an internship. The internship may be paid or unpaid. Students are required to work a minimum of 7 hours per week (per half credit) and must be at least 16 years of age. They must work in accordance with all state and federal laws. A training agreement is required.

JOB SHADOWING

No credit, grades 9-12

Job Shadowing is a great way to explore a career before actually beginning the academic preparation. It's an opportunity to spend a day observing a career of your choice. The experience will provide students with valuable information about a particular career early in the career development process. Very often things are different than they are perceived. This opportunity can ensure that career preparation is moving in the right direction, saving valuable time and effort.

EXTENDED CURRICULUM

DUAL ENROLLMENT

High school students in the state of Michigan have the opportunity to dual enroll in college courses in Michigan post-secondary institutions when certain criteria are met. Dual enrollment provides an increased variety of options to students. Our district will financially support dual enrollment for any 11th-12th grade student who has taken the PLAN, PSAT or the MME and wants to take an academic course that is not offered at LOHS. In order to be eligible for dual enrollment, students must achieve an adequate score on the standardized test in the subject area in which they want to take a course.

Based on a formula determined by the state, the district determines the amount of financial assistance. This fixed amount may only be used towards tuition. Due to limits in state funding and rising tuition costs, this fixed amount may not fully cover the total cost of tuition. Students are responsible for any tuition fees over the fixed amount, all activity fees, parking fees, books, supplies and transportation.

After the student has successfully completed the postsecondary course, the credits will be applied towards high school graduation requirements at the following rate:

1-2 college credits	=	.5 high school credit
3-4 college credits	=	1.0 high school credit
5 college credits	=	1.5 high school credit

Dual Enrollment - Eligibility

Junior and Senior students are eligible for dual enrollment when...

1. Courses are related to their career pathway and a degree the student wishes to obtain.
2. They have taken and received adequate scores on the PSAT, PLAN or MME test in the subject area which they wish to dual enroll, as per the Michigan Department of Education.
3. They attain a qualifying test score in an academic course in a core subject area including Mathematics, Science, and English.
4. There are courses within subjects for which there are no qualifying scores such as; philosophy, psychology, sociology, anthropology, computer science, and/or foreign language courses not offered by the high school.

Students are not eligible for dual enrollment when ...

1. There is a scheduling conflict.
2. There is a comparable course offered at the high school.
3. AP classes take precedence.

TESTING OUT

Any student, grades 9-12, is permitted to test out of any required or pre-requisite course in order to take high level courses.

For each testing out date, it is strongly recommended students test out of only two 10-week term courses for a total of one full credit. Due to the extensive curriculum material for each class period, it is extremely challenging for students to successfully test out of additional courses.

- The application deadline for the December testing out exams is October 15th and the deadline for the May testing out exams is March 15th.
- Students may only attempt to test out of the same course one time.
- Grades for test out assessments will be handled as follows:

Scores 77% and below are not proficient, and the student will be required to take the course for high school graduation credit. The attempt to test out will not be reflected on their transcript.

Scores between 78% and 89% demonstrate competency, and the student will be able to continue with the course sequence. High school graduation credit will not be granted. The attempt to test out will not be reflected on their transcript.

If it is a required course, they must then take that specific course to graduate.

Scores 90% or higher demonstrate content mastery of the course, and the student will be given high school graduation credit and a grade of “P” for passing will be indicated on the student’s transcript.

- Once the student has successfully completed the testing out process with a 90% or higher, they will be allowed to enroll in a higher level course in that sequence. He or she may not enroll in a lower level course in the same subject matter sequence.
- A grade of a “P” will not be included in a computation of grade point average for any purpose.
- Testing out assessments will be given the second Wednesday of December and the second Wednesday of May.