



Lapeer Community Schools

Course Offering Catalog

2005 - 2006



Lapeer East

Lapeer West



Lapeer Community Schools . . .

teaching for the future today!

Notice of Nondiscrimination Policy



It is the policy of the Lapeer Community Schools that no person shall, on the basis of race, color, national origin, sex or handicap, be excluded from participation in, be denied the benefits of, or be subjected to discrimination during any program or activity or in employment.

January 2005

Dear Parents/Guardians and Students:

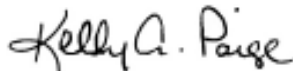
The Lapeer Community Schools High School Course Offerings Catalog has been compiled by the Staff and Administration of Lapeer East and West High Schools for the purpose of assisting parents and students with educational and career planning. In this catalog you will find:

- Course Descriptions
- Graduation Requirements
- Career Pathways
- College and Career Planning Information
- Additional Information

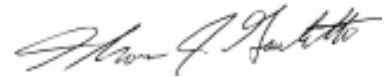
Please take the time to read the contents of this catalog. If you have questions, please contact your child's counselor. We encourage students and parents to review this catalog together and to choose classes that will help the student attain his/her academic and career goals.

A successful high school career rests heavily on the quality of the decisions made each spring for the upcoming school year. As always, both the counseling and administrative staffs are available to assist you in any way we can to ensure a successful academic year.

Sincerely,



Kelly Paige
Lapeer East Principal



Tom Goulette
Lapeer West Principal

Administrative and Counseling Staff

Lapeer East High School - 667-2418, counseling extension 4

Sharon Miller Assistant Principal
Mike Hoboth Assistant Principal
Jack Lindell Assistant Principal - Athletic Director
Dennis Warner Counselor - Last Names A - Gk
Susan Wilmers Counselor - Last Names Gk - N
Larry Goodenow Counselor - Last Names O-Z

Lapeer West High School - 667-2423, counseling extension 4

Dean Rothgeb Assistant Principal
Beth Rayl Assistant Principal
Rob Belous Assistant Principal - Athletic Director
Dave Kirkpatrick Counselor - Last Names A-D
Brad Walker Counselor - Last Names E - L
Dave Webster Counselor - Last Names M - Ro
Karol Settergren Counselor - Last Names Ru-Z

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Registration Information

1. Before entering high school, students should choose a career pathway and a post secondary education goal. (See section "CAREER PLANNING" on page 7 & 8 for more detailed information.)
2. Next, students working with their parents should design a six-year plan of study (Educational Development Plan p. 8) to be taken during high school and beyond. This should include courses to meet graduation requirements, career pathway guidelines, and special interests and needs.
3. Before choosing courses, students should carefully read the section entitled "Course Offerings" (on page 11). Questions about the courses should be addressed to the counselors or teachers.
4. **All** students will be required to enroll in six classes for eight semesters.
5. In order to provide greater educational opportunities for Lapeer East and Lapeer West students, the school district may offer some courses only at one of the two high schools. Students who elect these courses may be required to transfer between buildings. Transportation arrangements must be approved by the administration.
6. Courses described in this booklet are offered based upon sufficient student demand and teacher availability determined by administration.
7. Juniors and seniors may enroll in a college course at a nearby college each semester if they meet the qualifications and conditions. (Refer to "Dual Enrollment" on page 4).
8. Students interested in special programs including academic exceptions, dual enrollment, virtual high school, and independent study should contact their counselor.
9. Students should select their classes carefully. They are expected to remain in their classes until completion. An open period of drop and add will occur at the beginning of each semester. First semester open drop and add will end after the second week of the semester. Second semester open period of drop and add will end after the first week of the semester and will be limited to single semester courses.



Graduation Requirements

To qualify for graduation from Lapeer East or Lapeer West High School, students must successfully complete the following requirements and conditions that have been established by the Board of Education and administration:

ATTENDANCE	A student must complete four years or eight semesters of high school attendance. Students must also meet the attendance requirements in order to earn credit in any course.
STUDENT SUBJECT LOAD	A student must be enrolled in a full schedule of classes each semester. A full load consists of six credits for all students per semester.
TOTAL CREDITS REQUIRED	To qualify for graduation, 46 credits must be completed with a passing grade. One credit will be awarded for the successful completion of a semester subject and two credits for a full-year course. Any non-traditional credits earned must be pre-approved.

DEPARTMENTAL REQUIREMENTS

ENGLISH	Eight credits
MATHEMATICS	Six credits
SCIENCE	Four credits (two must be in physical science and two in life science)
SOCIAL STUDIES	Six credits (two must be in American Democratic Institutions and two must be in U.S. History.)
PHYSICAL EDUCATION/HEALTH	One credit in physical education and one credit in health. Life Management may be substituted for health. Two years of marching band may be substituted for physical education through an academic exception.
FINE/PERFORMING ARTS, FOREIGN LANGUAGE, VOCATIONAL/PRACTICAL ARTS	Two credits in any combination (courses may be selected in art, business, foreign language, humanities, industrial arts, life management, music, or vocational subjects)



Academic Policies

DRIVER EDUCATION

Driver Education may be taught during the summer and is not awarded credit toward graduation. (Refer to Academic Eligibility on page 7)

CREDIT DEFICIENCIES

A student with "credit deficiencies" is encouraged to earn "make-up credits" by enrolling in (a) after-school classes during the school year, and/or (b) summer-school classes. **Approval by the Guidance Department is required prior to enrolling in a "make-up subject."** Other options may be discussed with your counselor.

- a. After School Campus (1-8 credits) A student may enroll in one or two classes after school each semester. Sign up through the counseling office.
- b. Summer School (1-6 Credits) A student may enroll in either one or two subjects during each of the three summers between his/her freshman and senior years.
- c. Any exceptions or variation to the above will be addressed through Academic Exceptions Committee.

TRANSFER STUDENTS

Granting or denying credit for transfer students is the option of the local school district. Students transferring from comprehensive public or private high schools accredited by North Central Association or similar agencies will receive comparable credit and letter grades. Transfer students must complete at least the final semester of attendance to qualify for a diploma.

Transfer students are encouraged to enroll at the beginning of each semester, as it is often difficult to coordinate curriculum between schools.

Homeschoolers are encouraged to enroll at the beginning of each semester. In the event this is not possible and the student must enroll after the start of the semester, the student will be allowed to audit classes at East or West or enroll for credit at Lapeer Community High School if space is available. Credit can only be earned by completing a full semester.

Students transferring from non-accredited schools, specialized schools, correspondence schools or home-based schools will receive credit and/or letter grades based on the following criteria:

- ◆ If the curricula are comparable, credit and letter grades earned at the previous school will be granted.
- ◆ If the curricula are not comparable, the student may be given a comprehensive examination and/or assessment on the curriculum for which the student is seeking credit.
- ◆ If the performance is satisfactory, the student will be granted credit toward graduation, but will receive no letter grade.
- ◆ If the performance is unsatisfactory, the student will not receive credit. To receive credit for that curriculum the student will be required to take course work at an accredited high school.
- ◆ Lapeer Community Schools do not weight grades. Students transferring from schools with a weighted grade system will have their GPA recomputed.

TEACHER/COURSE EXPECTATIONS

For a student to receive credit for a subject, all course expectations as required by the teacher must be completed.

FAILURE OF REQUIRED CREDITS/SUBJECTS

Required credits failed must be made up.



Academic Policies cont.

GRADUATION PARTICIPATION

Seniors must have successfully completed all graduation requirements in order to participate in commencement exercises and other graduation activities. Also, students are expected to have fulfilled all financial obligations to the school and returned all schoolbooks and equipment prior to receiving their diploma.

FINAL GPA, SCHOLASTIC RANKING, HONORS

A senior earning a grade point of 3.0 - 3.49 will be recognized as graduating with "Honors"; a senior earning a grade point average of 3.5 - 4.0 will graduate with "High Honors." The final GPA and scholastic ranking will be based on all final grades earned during the eight or more semesters of high school attendance. Students must attend and receive grades for both semesters of their senior year in Lapeer Schools to be included in final class ranking. To be included in the rankings, students must be enrolled full time.

ACADEMIC RECOGNITION FOR UNDERCLASSMEN

Special recognition is given to underclassmen – freshmen, sophomores, and juniors that maintain strong grade point averages. Those with a 3.0 – 3.49 GPA are designated as "honor" students and those with a 3.5 or higher GPA are designated as "high honor" students.

Special Programs That Earn College Credit

Students may earn college credit through a variety of special programs.

ADVANCED PLACEMENT (AP)

An examination program for which colleges may grant credit in a number of specific content areas. Lapeer Community Schools offer specific courses designed to prepare students for AP testing. These courses are AP English 11, AP English 12, AP French V, AP Spanish V, AP Chemistry II, AP Calculus, AP Statistics, AP US History, AP Psychology, AP U.S. Government and Politics, AP Comparative Government and Politics, and AP Studio Art. See your counselor for further information.

COLLEGE LEVEL EXAMINATION PROGRAM (CLEP)

Examination programs for which colleges may grant credit to those students who demonstrate their knowledge on 34 areas (29 specific content areas and 5 general examinations). Those classes, which are particularly appropriate for students wishing to prepare for AP and/or CLEP testing, are identified by the designation CLEP and/or AP in the course description. Each university and college determines the granting of credit for CLEP and AP by its internal policies. Students considering taking a CLEP or AP test should contact the university or college in which they intend to enroll to assess the advisability of taking these examinations.

DUAL ENROLLMENT

Students may enroll in a post-secondary (college) course while still in high school under the following circumstances:

- ◆ A student is in the 11th or 12th grade and enrolled in at least one class at the high school;
- ◆ A student is in the 11th or 12th grade and has a cumulative gpa of 3.2;
- ◆ A student is in the twelfth grade and is endorsed in the subject area of the course he/she chooses to take;
- ◆ Students are eligible to take courses in subjects for which there are no endorsements such as computer science, vocational education, foreign language courses not offered by the district, and fine arts programs as permitted by the district; and
- ◆ The student must have exhausted all courses in the content area. An exception to this could occur if a scheduling conflict exists beyond the student's control.
- ◆ Students wishing to dual enroll must also meet the requirements of the post-secondary institution.



MEAP and Merit Award

MEAP HIGH SCHOOL TESTS

The MEAP tests students in English/Language Arts (reading and writing), mathematics, science, and social studies. Students who qualify under state guidelines will earn a Merit Award Scholarship. (www.MeritAward.state.mi.us). All students take the MEAP test in the spring of their junior year. Students will have two additional opportunities to take the tests in their senior year. **Students receiving a Level I or Level II endorsement may waive their second semester senior year final exam in the related course.**

Promotion and Classification of Students

Students need to be aware of the relationship between academic performance and membership in a particular graduating class. Advancement to the next grade is based on having met certain academic criteria and not merely the number of years of high school attendance.

The academic basis for grade-level promotion is total credits earned prior to the start of each school year. Credits earned during summer school classes also will be included in the determination of a student's grade classification.

Students who have not attained sufficient credits for promotion to the next grade level will be reclassified each year at the conclusion of summer school. Credits earned thereafter will not affect class placement until the end of the next school year.

Credit requirements for grade-level membership are as follows:

Grade	Minimum Credits	Semesters
9	0	0
10	10	2
11	22	4
12	34	6



Academic Exceptions

Students striving to reach their maximum, individual potential may be allowed to design unique, flexible, comprehensive programs of study, which meet their needs. (SB Policy 2370). The district has instituted several processes and alternatives for creating and developing flexible high school programs for students.

Members of the Academic Exceptions Committee (AEC) include: principal, counselor, district administrator, and an instructional staff member selected by the student/parent, the student and his/her parent(s). The purpose is to design an individual Educational Development Plan (EDP) for the student.

TESTING OUT

Schools are required by PA 335, Section 1279B, to provide students with the opportunity to test out of any course except physical education, American Democratic Institutions or any course which is predominately graded on daily performance and/or projects. Students must exhibit mastery of the subject matter by attaining a grade of not less than C+ in a comprehensive examination. In addition, students may be required to provide a portfolio, performance, paper, project or presentation if it is a requirement for all students in that course. Credit earned is based on "pass" and will not be included in a computation of grade point average. Credit will be counted toward fulfillment of a requirement as to course sequence. Testing out registrations are available in the counseling office and are due May 1. Tests are administered during the second week of August. Materials and books are available at the conclusion of the current school year from the Department of Instruction.

INDEPENDENT STUDY

Offered to junior and/or senior students who are self-disciplined, able to work independently, and have the ability to monitor their own progress. There are three alternatives:

1. Course offered in the curriculum but not taught in a given year or there is an irresolvable conflict in the student's schedule;
2. Specifically designed course providing a student with an intensive study in a particular discipline; and
3. Course offered through telecommunications.

VIRTUAL HIGH SCHOOL

High School students may elect to earn some credits through a Virtual High School. The course must be taught by a certified teacher and sponsored by a regionally accredited high school. Students interested in earning credit in this manner should see their counselor.

WORK-BASED EDUCATION

Students may elect to earn graduation credits through work experience. The specific details and academic plan must be coordinated and approved through high school counselor and work-based education coordinator.



Academic Eligibility

A student must be "academically eligible" as a condition for participating in (a) high school athletics, (b) extra curricular activities, or (c) driver's education.

EXTRA CURRICULAR ELIGIBILITY (including Athletics and Drivers Education)

To be eligible to participate in extracurricular programs, Lapeer Community School District students must attain at least a 2.0 G.P.A. for the semester immediately preceding the semester of participation, or must have passed each course in which he/she was previously enrolled. Students who have attained a 2.0 G.P.A. or above, cannot have failed more than one class to be eligible.

NATIONAL COLLEGIATE ATHLETIC ASSOCIATION (NCAA)

Classes meeting NCAA core course guidelines are designated in the course descriptions. Students considering participating in college athletics must choose NCAA approved courses. Students and their parents are responsible for developing a four-year plan that meets the core requirements as determined by NCAA. ***It is the responsibility of the student who is planning to play college level sports to register with the NCAA Clearinghouse at the completion of their junior year. *Registration may be completed at www.ncaaclearinghouse.org***
****New guidelines are in place for the class of 2008 and beyond.***

Career Planning

All students who graduate from Lapeer Community Schools will have the necessary skills and preparation to enter the work force or to pursue further education.

STUDENT PORTFOLIO

Each student is ***encouraged*** to establish and maintain a student portfolio. The purpose will be to allow students to document their academic, extra curricular, employment experience, community services, and awards and honors. Students should include samples of writing from the English classes and other academic subjects. A portfolio is a personal collection that reflects one's accomplishments. It will create a favorable impression with future employers and/or with college admissions counselors.

EDUCATIONAL DEVELOPMENT PLANS (EDP's)

All students are required to have an EDP. Students, working with their parents, will design a six-year plan of the program to be taken during high school and beyond. This should include courses to meet graduation requirements, career goal requirements, special interests and needs. The EDP is filed in the counseling office and will be evaluated and updated on an annual basis. Page 8 has a copy of the EDP.

CAREER PATHWAYS

Students are encouraged to explore the many career possibilities that exist in the world today as well as to consider careers that may be part of their future. Career Pathways assist students in this exploration process. Hundreds of jobs exist in each of the Career Pathways. Information from the Michigan Occupational Information System (MOIS) for each Pathway is provided on pages 36-43, including a listing of occupations requiring different levels of education and emerging or fast growing occupations. Also included are suggested high school courses to explore and /or prepare for training or employment in the Pathway.



Six Year Plan (EDP)



Name _____ Year of Graduation _____ Phone _____ Parent(s) Signature _____	Career Pathways <input type="checkbox"/> Arts/Communication <input type="checkbox"/> Business/Management <input type="checkbox"/> Health Sciences <input type="checkbox"/> Human Services <input type="checkbox"/> Industrial/Engineering <input type="checkbox"/> Natural Resources	Post Secondary Education Goal <input type="checkbox"/> College/University Preparation <input type="checkbox"/> Community College/Technical Preparation <input type="checkbox"/> Direct entry into work force Preparation
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<p style="text-align: center;">Grade 8 Year __/__/__</p> <ol style="list-style-type: none"> English _____ Math _____ Science _____ US History _____ Careers _____ _____ <p style="text-align: center;">Career Exploration</p> <p>DAT results: (top three test areas) 1. _____ 2. _____ 3. _____</p> <p>CII results: (top three career matches) 1. _____ 2. _____ 3. _____</p> <p>List the 5 occupations you investigated</p> <ol style="list-style-type: none"> _____ _____ _____ _____ _____ 	<p style="text-align: center;">Grade 9 Year __/__/__</p> <ol style="list-style-type: none"> English _____ Math _____ Science (Physical) _____ PE/Health _____ _____ _____ <p style="text-align: center;">Career Exploration</p> <p>Career Explored _____</p> <p>Occupational Goal(s) _____</p> <p>_____</p> <p>Ed-Tech Goal _____</p> <p>_____</p>	<p style="text-align: center;">Grade 10 Year __/__/__</p> <ol style="list-style-type: none"> English _____ Math _____ Science (Life) _____ ADI _____ _____ _____ <p style="text-align: center;">Career Exploration</p> <p>SDS results: 1. _____ 2. _____ 3. _____</p> <p>Career Explored _____</p> <p>Occupational goal(s) _____</p> <p>_____</p> <p>Job Shadowing _____</p> <p>Work Experience _____</p> <p>_____</p> <p>Community Service _____</p> <p>_____</p> <p>College/University/Tech _____</p> <p>_____</p>
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<p style="text-align: center;">Grade 11 Year __/__/__</p> <ol style="list-style-type: none"> English _____ US History _____ Math _____ _____ _____ <i>Ed-Tech is a 3 hour block</i> _____ <i>Ed-Tech is a 3 hour block</i> <p style="text-align: center;">Career Exploration</p> <p>Resume completed? yes _____ no _____</p> <p>Occupational goal(s) _____</p> <p>Job Shadowing _____</p> <p>Work Experience _____</p> <p>Community Service _____</p> <p>College/University/Tech _____</p> <p>Financial Aid started yes _____ no _____</p>	<p style="text-align: center;">Grade 12 Year __/__/__</p> <ol style="list-style-type: none"> English _____ Social Studies _____ _____ _____ _____ <i>Ed-Tech is a 3 hour block</i> _____ <i>Ed-Tech is a 3 hour block</i> <p style="text-align: center;">Career Exploration</p> <p>Occupational goal(s) _____</p> <p>Job Shadowing _____</p> <p>_____</p> <p>Work Experience _____</p> <p>Community Service _____</p> <p>College/University/Tech _____</p> <p>Financial Aid started yes _____ no _____</p>	<p style="text-align: center;">Grade 13 Year __/__/__</p> <p>Occupational Goal _____</p> <p>Training Institution _____</p> <p>Major _____</p> <p>Minor _____</p> <p>*****</p> <p style="text-align: center;">Grade 14 Year __/__/__</p> <p>Occupational Goal _____</p> <p>Training Institution _____</p> <p>Major _____</p> <p>Minor _____</p>
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College/University Preparation

The state universities of Michigan have agreed that to be eligible for regular admission to a four-year baccalaureate degree program, a graduating high school student must complete the following course requirements:

ENGLISH	8 credits required
MATHEMATICS	6-10 credits strongly recommended, including Algebra I and II and Plane Geometry (6 credits required)
BIOLOGICAL/PHYSICAL SCIENCES	6-10 credits strongly recommended to include 2 credits of Biological Science and 2 credits of Physical Science (4 credits required)
HISTORY AND SOCIAL SCIENCES	2 credits of American Democratic Institutions and 2 credits of U.S. History (6 credits required)

**Prospective students are also encouraged to complete courses in the following areas:*

FOREIGN LANGUAGE	6 credits strongly recommended. (4 credits required at some institutions)
FINE AND PERFORMING ARTS	4 credits strongly recommended
COMPUTER LITERACY/KEYBOARDING	2 credits of hands-on experience in computers and keyboarding is strongly recommended

The universities recognize that, for a variety of reasons, some students may not be able to complete all of the requirements. In such circumstances, students may still be considered for admission and, therefore, are encouraged to apply to the university of their choice. Students should be aware that colleges and universities look at the rigor of the course load and the GPA in the core classes. In all instances, each university has final authority for admission decisions. Potential college athletes must also comply with NCAA core requirements.



Community College/Technical Preparation

Technical Preparation is a curriculum option available to high school students who may conclude with a certificate or associate degree at a community college or technical school. It has been developed in conjunction with the Lapeer County Educational and Technology Center and various departments within our schools.

*A student in this program must complete the following course requirements:

ENGLISH	8 credits required
MATHEMATICS	6 credits required
SCIENCE	4 credits required including 2 physical science and 2 life science
SOCIAL STUDIES	6 credits required including 2 credits of American Democratic Institutions and 2 credits of U.S. History
HEALTH/P.E.	2 credits required

**Prospective students are also encouraged to complete courses in the following areas:*

VOCATIONAL-TECHNICAL COURSES AND/OR APPLIED TECHNICAL COURSES IN BUSINESS OR INDUSTRIAL TECHNOLOGY	6-12 credits strongly recommended
COMPUTER LITERACY/KEYBOARDING	2 credits of hands-on experience in using computers and keyboarding strongly recommended

Today's job market demands a highly skilled and highly trained work force. New jobs being created are increasingly technical in nature and require at least one or more years of further education.

Individual programs will be designed in cooperation with counselors.

Direct Entry Into the Work Force

Students must complete the high school graduation requirements. Students should select their elective courses based on their career field choice.

ENGLISH	8 credits required
MATH	6 credits required
SCIENCE	4 credits required including 2 Physical Science and 2 Life Science
SOCIAL STUDIES	6 credits required including 2 credits of American Democratic Institutions and 2 credits of U.S. History
HEALTH/P.E.	2 credits required
FINE/PERFORMING/PRACTICALARTS/ FOREIGN LANGUAGE	2 credits required
VOCATIONAL-TECHNICAL COURSES AND/OR APPLIED TECHNICAL COURSES IN BUSINESS OR INDUSTRIAL TECHNOLOGY	6-12 credits strongly recommended



Course Offerings

Courses described in this Course Offerings Handbook are offered based upon sufficient student demand and teacher availability determined by administration.

This section of the Course Offerings Handbook contains a departmental listing of all courses of instruction for the coming school year.

For each subject offered, the course number and title are listed, followed by the grade levels to which the course is available, for example, 9-10, 9-12, 11-12, etc. Courses that are one credit are one semester in length. Two credit courses are for the full year. Some courses cannot be elected until a prerequisite course has been taken. In these cases, the course numbers of the prerequisite course(s) are indicated. Courses meeting NCAA core requirements, Advanced Placement (AP) and/or College Level Examination Program (CLEP) are noted in bold at the end of the course description. Because some course titles are sufficiently descriptive, no information is provided about the course content. For courses requiring additional information on content, a brief description is provided.

Advanced Placement

Students taking Advanced Placement classes are making a commitment to excellence. These classes create a collegiate-style academic environment. The pace of instruction and expectations for homework are demanding. Students who select these classes must accept these challenges if they wish to receive above average grades. Students are strongly encouraged to take the AP test(s) offered in the spring



Course Offerings

Art Department

Courses are designed for both artist and non-artist to help all students better understand and develop individual skills of self-expression. College preparatory students may use art courses to fulfill their Fine Arts requirement. Students planning on pursuing a career in art related fields should plan on taking art classes all four years.

010 ART I - 2 Credits

Grades 9, 10, 11, 12

The basic elements and principles of art and art history are taught; application of these principles involve experiences with a wide variety of media from charcoal to computers. Successful completion of this course (2 credits) is required before taking any advanced courses.

020 TWO-DIMENSIONAL ART - 2 Credits

Grades 10, 11, 12, Prerequisites: 010

A study of two-dimensional art may include drawing, painting, printmaking, and creative computer graphics.

030 POTTERY - 1 Credit

Grades 10, 11, 12, Prerequisites: 010

A study of functional pottery, learning the various hand-building techniques as well as using the potter's wheel. Glazing techniques will also be studied.

031 SCULPTURE - 1 credit

Grades 10, 11, 12, Prerequisites: 010

A study of three-dimensional problems in art: additive and subtractive methods of construction using a variety of materials will be pursued.

040 COMMERCIAL ART - 2 credits

Grades 10, 11, 12, Prerequisites: 010, 020 strongly recommended

A course of study for art students who plan to pursue careers in commercial art. This course will give students experience in the diverse areas of commercial work, post-graduate educational perspectives, and presentation skills. Airbrush and computer graphics techniques may be included.

050 STUDIO ART Y - 2 credits

Grades 11, 12

Prerequisites: Recommendation of instructor and an (A or B) in two years of art

The student electing studio art must have a genuine interest and ability in a specialized art area. Each student will be responsible for setting goals with approval and guidance from the instructor. Art portfolio development will be a prime focus. Upon instructor's approval students may take Studio Art more than once.

051 STUDIO ART S - 1 credit

Grades 11, 12, *Prerequisites: Recommendation of instructor and an A or B in two years of art*

The student electing studio art must have a genuine interest and ability in a specialized art area. Each student will be responsible for setting goals with approval and guidance from instructor. Art portfolio development will be a prime focus. Upon instructor's approval students may take Studio Art more than once.

052 AP STUDIO ART – 2 credits

Grades 11, 12

The student electing this class must be a highly motivated art student who wants to gain college credit for portfolio completion and submission. Students will follow course guidelines developed and published by the college board. Fees pertinent to portfolio entry will be the student's responsibility.



Course Offerings

Business Department

100 INTRODUCTION TO BUSINESS - 2 credits

West - Grades 9, 10, 11, 12, East – Grades 9, 10

This course introduces students to the business world and career opportunities through a survey of the major areas of business. Areas of study include economic fundamentals, personal finance such as banking, credit, insurance, consumerism and the stock market. The study of business technologies and organizations, marketing fundamentals, management principles, entrepreneurship and finance will give the student an important introduction to the world of business. Students anticipating further study of business subjects will benefit from this foundational course.

111 KEYBOARDING/WORD - 2 credits

Grades 9, 10, 11, 12

This course emphasizes the “touch” method of keyboarding leading to higher speeds and accuracy on the computer/word processor. Students will learn how to use proper keyboarding techniques and word processing skills to prepare reports, letters, and tables for personal, college, and professional use. Not open to students who have taken 112 Keyboarding for Personal Use.

112 WORD PROCESSING FOR PERSONAL USE - 1 credit

Grades 9, 10, 11, 12

A course designed to teach the basics of keyboarding and word processing, emphasizing correct keyboarding technique, basic word processing and report preparation for personal and college use. Not open to students who have taken 111 Keyboarding/Word.

115 ACCOUNTING I - 2 credits

Grades 10, 11, 12

Accounting is designed to help students understand the financial aspects of their personal and professional lives. This course introduces students to basic bookkeeping/accounting theory and practices and will give students a better insight into the many financial career opportunities that the business world offers. (CLEP)

116 ACCOUNTING II - 2 credits

Grades 11, 12, Prerequisites: 115

This course is a continuation of Accounting I with an emphasis of automated accounting practices relating to corporate accounting. Students will complete several automated problems and simulations with use of the computer. This course is designed to prepare the student for business programs in college as well as future employment in the world of business. (CLEP)

130 BUSINESS AND PERSONAL LAW - 1 credit Grades 11, 12

This class develops an understanding of the legal framework that regulates our business and personal affairs. Topics of study will include criminal law, civil law, law enforcement and the judicial system, contracts, and the rights and responsibilities of citizens under the law. Numerous members of the legal community will guest speak. (CLEP) (Will be offered 2006-07 at East, offered every year at West)

132 ECONOMICS - 1 credit

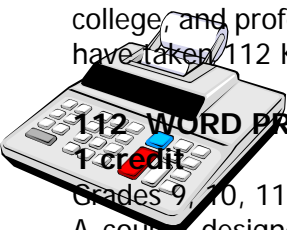
Grades 11, 12

Economics is the study of how a society produces and makes available goods and services necessary to meet the needs and wants of its people. Students will develop a base of understanding that will assist them in making intelligent economic decisions as consumers, workers, and citizens. Students will study current economic events and play the Internet version of the Stock Market Game (SMG). (Will be offered 2006-07 at East, offered every year at West)

135 MARKETING I - 2 credits

Grades 10, 11, 12

This course is designed to develop skills and insights into the foundations and functions of the marketing area of business. Emphasis will be on the process of planning, pricing, promotion, and distribution of ideas, goods, and services in the American market economy. Participation in DECA, an international association of marketing students, is available. (CLEP)



Course Offerings

Business Department

136 MARKETING II - 2 credits

Grades 11, 12, *Prerequisites: 135*

This course is a continuation of Marketing I. A more in-depth study of marketing foundations and functions will be covered with exposure to the business community. Participation in DECA is expected.

137 ENTREPRENEURSHIP- Owning Your Own Business – 1 credit

Grades 11-12

Entrepreneurship is the process of creating, developing, and operating a small business enterprise. The course is designed to give students insights and experiences in moving a business dream from idea to reality. Students will explore traits and characteristics of successful entrepreneurs and develop a business plan that will provide insight into the research, planning, operations, and regulations necessary to operate a small business successfully.

138 SPORTS & ENTERTAINMENT MARKETING – 1 credit

Grades 11-12

Sports and Entertainment Marketing is a unique and innovative course designed to offer students an opportunity to gain knowledge and develop skills related to the growing sports and entertainment industry. This course is based upon the Marketing Education framework that includes basic business, management, and marketing foundations. Emphasis is placed upon the functions of financing, marketing-information management; pricing, product/service management, promotion, and selling. A significant portion of this program will include hands-on learning through student-developed activities to meet course goals. Students taking Sports and Entertainment marketing will participate in DECA, a student marketing leadership organization.



Course Offerings

Computer Science Department

150 COMPUTER APPLICATIONS I - 1 credit

Grades 9, 10, 11, 12

This course is an Introduction to Windows XP and real world applications for Word Processing, Spreadsheet, Database, Mail Merge, and Graphic software and features. The student will gain a working knowledge of Microsoft Office 2000 Suite of software and be able to apply them to their own personal and career uses. This is an excellent introductory course for using computers. (Ninth graders must take in conjunction with 112 Word Processing for Personal Use unless they have taken Word Processing for Personal Use in 8th grade).

151 COMPUTER APPLICATIONS II/DESKTOP PUBLISHING - 1 credit

Grades 9, 10, 11, 12

This course introduces the student to Desktop Publishing concepts. Use of graphics, fonts, color, and placement of text will be taught to enable the student to create attractive design layouts for such documents as brochures, newsletters, certificates, banners, 3-D calendars, posters, business cards, and many other non-typical documents. This is a must class for anyone interested in enhancing the appearance and design of their computer documents. Microsoft Publisher 2000 is the software primarily used in this class. This class will use the Internet, digital cameras, and scanners for assisting in producing documents.

153 MULTIMEDIA PRESENTATION - 1 credit

Grades 9, 10, 11, 12

Students will learn how to develop multimedia interactive slide presentations using PowerPoint 2000. Basic knowledge of the Internet is helpful for downloading graphics, sound, and other information. Acceptable Use Permission forms must be on file with the teacher. Students will do a small amount of research to prepare presentations. Students will also use digital cameras, scanners, clip art, sound recorders, and microphones to assist in preparing presentations. Learn the features of PowerPoint that most people do not even know exist. This is a great class for helping you easily make presentations for other high school or college classes.

154 WEB AUTHORING – 1 credit

Grades 10, 11, 12, *Prerequisites: 150 B- or better in Computer Applications I, or teacher approval*

This course will expose students to the creation of web pages, and the maintenance of the high school web site. Web authoring software will be used to create pages that contain graphics, sound, and JavaScript. Discussion topics include good page design, and web site organization and maintenance.

155 BASIC PROGRAMMING - 1 credit

Grades 10, 11, 12, *Prerequisites: A grade of B or better in Algebra I or teacher approval*

This class is a beginning course in programming in Visual Basic language. Good program structure and problem solving will be stressed. Topics include using data, attractive output, interactive programs, graphics, loops, and sorting. Provisions are made on an individual basis for advanced students. (NCAA)



Course Offerings

English Department

The English Department offers four years of English divided into four tracks: communication skills (remedial), general, college-preparatory, and honors. All English classes offer instruction in the areas of grammar, composition, and literature or reading, although the text and expectations of student performance vary depending on the level of the track and the grade level of the course. Graduation requirement can only be met by completing courses from the following series listed below.

- A. **Communication Skills**, a remedial series (200, 201, 202, 203) is only for those students who are achieving significantly below grade level (two grade levels or more) and need special help.
- B. **General English** (210, 211, 212, 213) is designed to provide a sound, basic foundation in English. This class is for students whose skills are at or slightly below grade level.
- C. The **College-Preparatory** sequence (220, 221, 222, 223) should be taken by students planning to enroll in college after graduation and other students able to achieve at this level. This class is for students whose skills and performances are clearly at grade level or above.
- D. The **Advanced Placement** track (232, 233) is for those college-bound students whose skills and performance are significantly above grade level and who wish to take the Advanced Placement examination for college credit.

All English classes will be coordinated so that the work a student does at one grade level specifically prepares him for the work at the next level.

200 COMMUNICATION SKILLS 9 - 2 credits

Grade 9, *Prerequisites: Counselor/departmental approval*

This is a remedial course for those students who are achieving significantly below grade level in reading, writing, and vocabulary skills. (Two grades or below.)

201 COMMUNICATION SKILLS 10 - 2 credits

Grade 10, *Prerequisites: 200 and counselor/departmental approval*

This is a remedial course for those students who are achieving significantly below grade level in reading, writing, and vocabulary skills. (Two grades or below.)

202 COMMUNICATION SKILLS 11 - 2 credits

Grade 11, *Prerequisites: 201 and counselor/departmental approval*

This is a remedial course for those students who are functioning at a grade level two or more levels below the standard in reading and writing. Various literary genres are introduced or reviewed. The writing includes a review of form, content and usage.

203 COMMUNICATION SKILLS 12 - 2 credits

Grade 12, *Prerequisites: 202 and counselor/departmental approval*

This is a remedial course for those students who are functioning at a grade level two or more levels below the standard in reading and writing. Various literary genres are introduced or reviewed. The writing includes a review of form, content and usage.

210 GENERAL ENGLISH 9 - 2 credits

Grade 9

This course reviews basic reading, writing and vocabulary skills. A thematic approach introduces the various literary types, such as drama, short stories, essays, biographies, poetry and novels. (NCAA)

211 GENERAL ENGLISH 10 - 2 credits

Grade 10, *Prerequisites: 210*

This course focuses upon a review of reading and writing skills. The necessary components of each area, including grammar, usage, sentence structure, vocabulary and critical thinking are emphasized. Thematic units introduce the student to a variety of literary forms. (NCAA)



Course Offerings

English Department

212 GENERAL ENGLISH 11 - 2 credits

Grade 11, *Prerequisites:* 211

This course emphasizes effective writing and reading skills. The literary focus includes the study of prose and poetry of American Literature. (NCAA)

213 GENERAL ENGLISH 12 - 2 credits

Grade 12, *Prerequisites:* 212

This course is designed for the student who needs additional assistance in writing and reading. A research paper is required. The literary focus is upon British literature. (NCAA)

220 ENGLISH 9 - 2 credits

Grade 9

This course is for students who plan to attend college or who desire a strong literary and writing background. The study of literature focuses on various literary genres. Writing includes an introduction to various expository forms. (NCAA)

221 ENGLISH 10 – 2 credits

Grade 10, *Prerequisites:* 220

This is a college preparatory course designed for those students who desire a strong background in various literary genre. The writing emphasis is on the development of informational and persuasive writing. (NCAA)

222 ENGLISH 11 - 2 credits

Grade 11, *Prerequisites:* 221

This is a college preparatory course designed for those students who desire a strong background in English. Emphasis is placed upon analytical thinking and writing skills. The literature focuses upon the American experience. (NCAA, CLEP)

223 ENGLISH 12 - 2 credits

Grade 12, *Prerequisites:* 222

This course is designed for those who plan to attend college. Advanced expository writing is emphasized. A research paper is required. The literature focuses upon British literature, authors and movements. (NCAA, CLEP)

232 AP ENGLISH 11 - 2 credits

Grade 11, *Prerequisites:* 221 or 231 and counselor/departmental approval

This is a course which may be substituted for English 11 upon the recommendation of the tenth grade English teacher. The course is designed for those students who expect to take the Advanced Placement English Language and Composition test. (AP, CLEP, NCAA)

233 AP ENGLISH 12 - 2 credits

Grade 12, *Prerequisites:* 232 and counselor/departmental approval

Students may elect to take the Advanced College Placement Test in the spring. This is a course, which may be selected by students who excel in English. Students who take this course should plan on taking the Advanced Placement Literature and/or Composition test. A research paper is a requirement of this course. (AP, CLEP, NCAA)

240 SPEECH COMMUNICATION - 1 credit

Grades 10, 11, 12

This course is designed to emphasize formal speaking skills, which will enable students to transform their thoughts into an effective message. The techniques of verbal and non-verbal communication, especially organization and delivery, will be stressed. Public speaking, communication skills, listening skills, and writing speeches will be experienced. (This course does not fulfill English graduation requirement.)

241 ARGUMENTATION AND DEBATE - 1 credit

Grades 10, 11, 12

This is a fast-paced course in which students will learn how to influence people and present winning points of view. A variety of class activities including short speeches, group discussions, panel discussions and debates will be employed. (This course does not fulfill English graduation requirement.)



Course Offerings

English Department

242 PRESENTATIONAL SPEECH - 1 credit East, 2 credits West with teacher approval

Grades 11,12

This is a challenging course, which will teach students how to create and deliver diverse types of speeches and learn public speaking at a mass media level of performance. Skills in logical thinking, note taking, problem solving, group dynamics behind the scenes media production, and leadership will be developed. (This course does not fulfill English graduation requirement.)

243 DRAMA LITERATURE – 1 credit

Grades 11, 12

This course allows students to study the different types of playwrights and their plays. Students will learn this genre' of literature through the study of the great classical, contemporary and musical plays of history. (This course does not fulfill English graduation requirement.)

244 CREATIVE THEATRE – 1 credit

Grades 11, 12

This course allows students to perform in plays, scenes, and impromptu activities that relate to the theatre world. Students will learn and be exposed to all fields in the Theatre. Those fields include directing, blocking, acting, stage-managing, lights, building sets, make-up and costumes. (This course does not fulfill English graduation requirement.)

245 CONTEMPORARY AMERICAN LITERATURE – 2 credits

Grades 11, 12

This course is for students who enjoy reading as well as discussing and writing about literature. Students will study in detail the period about American literature from 1950 to the present. The student will read a wide variety of short stories, novels, drama and non-fiction. This class is open to juniors and seniors. This counts as an elective credit, not an English credit.

Foreign Language Department

The French and Spanish programs are designed to introduce and develop the four basic language skills of speaking, listening, reading, and writing. Students seeking college admission are highly recommended to complete a sequence of two years or more in one of the languages; students who intend to major at college in a field that requires a foreign language should consider completing a sequence of three or more years of a language in high school. If enrollment numbers indicate the need, fifth, fourth and possibly third-year classes may be combined between East and West. Teacher recommendation and/or a minimum grade of C- are required for advancement to the next level.

300 FRENCH I - 2 credits

Grades 9, 10, 11, 12

Students will be introduced to and begin to develop listening, reading, writing, and speaking skills. Students will learn basic vocabulary and grammar. The geography and traditions of French-speaking people will be introduced. (NCAA)

301 FRENCH II - 2 credits

Grades 9, 10, 11, 12, *Prerequisites: 300*

Continuing where French I left off, students will develop more proficiency in reading, writing, speaking, and listening. Students will study more complex grammatical structures and more vocabularies. There will be a continuation of study of the geography and traditions of French-speaking countries and peoples. (NCAA)

302 FRENCH III - 2 credits

Grades 10, 11, 12, *Prerequisites: 301*

Students will learn more advanced vocabulary and grammar. Students will read and write more in the target language. There will be a continuation of study of the geography and traditions of French-speaking countries and peoples. Class may be conducted in French. (NCAA)



Course Offerings

Foreign Language Department

303 FRENCH IV - 2 credits

Grades 11, 12, *Prerequisites: 302*

Class will be conducted in the target language. An in-depth study of French grammar, vocabulary, and culture will be undertaken. Continued growth and improvement in composition and oral competency will be stressed. Seniors completing this class may choose to take the language portion of the AP test. (NCAA, AP, CLEP)

304 AP FRENCH V - 2 credits

Grade 12, *Prerequisites: 303*

Class will be conducted in the target language. Previous competencies in reading, writing, speaking, and listening will be reviewed and additional instruction in each area will be provided. Composition and oral proficiency will be emphasized. Students completing this class will have the option of taking the language portion of the AP test. (NCAA, AP, CLEP)

310 SPANISH I - 2 credits

Grades 9, 10, 11, 12

Students will be introduced to and begin to develop listening, reading, writing, and speaking skills. Students will learn basic vocabulary and grammar. The geography and traditions of Spanish-speaking people will be introduced. (NCAA)

311 SPANISH II - 2 credits

Grades 9, 10, 11, 12, *Prerequisites: 310*

Continuing where Spanish I left off, students will develop more proficiency in reading, writing, speaking, and listening. Students will study more complex grammatical structures and more vocabularies. There will be a continuation of study of the geography and traditions of Spanish-speaking countries and peoples. (NCAA)

312 SPANISH III - 2 credits

Grades 10, 11,12, *Prerequisites: 311*

Students will learn more advanced vocabulary and grammar. Students will read and write more in the target language. There will be a continuation of study of the geography and traditions of Spanish-speaking countries and peoples. Class may be conducted in Spanish. (NCAA)

Foreign Language Department

313 SPANISH IV - 2 credits

Grades 11,12, *Prerequisites: 312*

Class will be conducted in the target language. An in-depth study of Spanish grammar, vocabulary, and culture will be undertaken. Continued growth and improvement in composition and oral competency will be stressed. Seniors completing this class may choose to take the language portion of the AP test. (NCAA, CLEP, AP)

314 AP SPANISH V - 2 credits

Grade 12, *Prerequisites: 313*

Class will be conducted in the target language. Previous competencies in reading, writing, speaking and listening will be reviewed and additional instruction in each area will be provided. Composition and oral proficiency will be emphasized. Students completing this class will have the option of taking the language portion of the AP test. (CLEP, AP, NCAA)

Humanities

380 HUMANITIES - 2 credits

Grades 10, 11, 12

A comprehensive study of the history of man and his achievements from ancient civilizations to the present, encompassing history, philosophy, literature, archeology, comparative religions, political theory, and aesthetic criticism and appreciation of the arts. While much emphasis will be placed on the cultural development of the western world, studies will also include the African, Islamic, and Oriental cultures. Extensive reading, cultural experiences, and lab work are required. This subject is recommended for the college-bound student. (NCAA)



Course Offerings

Industrial Technology Department

400 WOODS I - 2 credits

Grades 9, 10, 11, 12

A basic woodworking course with emphasis on hand tool use and care. Some power woodworking machinery is covered. Emphasis on use, care and safety. *Students will be responsible for the cost of project materials.*

401 WOODS II - 2 credits

Grades 10, 11, 12, *Prerequisites: Woods I 400 C or better, both semesters and/or instructor approval*

An advanced woodworking course emphasizing use, care and safe operation of all power woodworking machinery. *Students will be responsible for the cost of project materials.*

402 WOODS III - 2 credits

Grades 11, 12, *Prerequisites: Woods II 401 and instructor approval*

The most advanced woodworking course teaching furniture making skill and techniques. *Students will be responsible for the cost of project materials.*

410 METALS I - 2 credits

Grades 9, 10, 11, 12

Basic metalworking courses covering metals and their properties, bench metalworking, hand tool uses, basic machine use and basic gas and arc welding principles. Students will complete approved projects. *Students will be responsible for the cost of project materials.* (Lapeer East)

411 METALS II - 2 credits

Grades 10, 11, 12

Prerequisites: 410 (C or Better), both semesters and instructor approval

An advanced metal working course with a concentration on advanced welding and metal machining skills, as well as project completion related to advanced applications. *Students will be responsible for the cost of project materials.* (Lapeer East)

420 SMALL ENGINE REPAIR - 1 credit

Grades 9, 10, 11, 12

A laboratory approach to the repair of two- and four-stroke gasoline engines, with special emphasis on diagnosing problems, repairing, and maintaining small engines. Theory related to modern fuel sources and gasoline alternatives will be covered.

421 BASIC ELECTRICITY AND ELECTRONICS – 1 credit

Grades 9, 10, 11, 12

A basic course in residential electricity and electronics. Students will cover basic residential wiring theories in practical laboratory activities related to household wiring. Students will also cover basic electronic theories in laboratory activities related to common electronic circuitry present in common everyday devices. Practical tool use, repair, and job fields/opportunities for electrical and electronic work will also be covered in this course.

430 DRAFTING I - 2 credits

Grades 9, 10, 11, 12

A basic drafting course covering the principles of mechanical drawing.

431 ADVANCED MECHANICAL DRAFTING - 2 credits

Grades 10, 11, 12, *Prerequisites: Drafting I (430) C or better or instructor approval*

An advanced drafting course, students should expect to complete projects using advanced level skills, resources, and techniques. This course may include an introduction and transition to computer-aided design (CAD) in 2D.

432 ARCHITECTURAL DRAFTING - 2 credits

Grades 10, 11, 12, *Prerequisites: Drafting I ("C" or better) and instructor approval*

An architectural drafting course in which students will be exposed to both residential and commercial construction. Students will be required to complete projects using advanced level skills, resources, and techniques. Students may create prints using computer-aided design (CAD).



Course Offerings

Industrial Technology Department

433 DRAFTING – INDEPENDENT STUDY - 2 credits
Grades 11,12, *Prerequisites: Drafting I, Advanced Mechanical Drafting or Architectural Drafting and instructor approval*

Students will complete advanced projects in 2D using computer aided design (CAD) software. This course will be individually designed for each student to reflect the specific area of interest (mechanical or architectural).

440 INDUSTRIAL TECHNOLOGY - 2 credits

Grades 9, 10, 11, 12, *Prerequisites: 2.0 GPA minimum*
This course will provide students the opportunity to explore different technologies. Some areas of study may include: CNC lathe, CNC mill, robotics, solar energy, mechanical power, fiber optics, lasers, CAD, video production, satellite communications, biotechnology, stress analysis, plastics, flight instrumentation and more. Students will work in groups of two as they rotate through different modules during this course. (Lapeer West)

Life Management Department

450 CLOTHING CONSTRUCTION - 1 credit

Grades 9, 10, 11, 12

This course teaches the basics of clothing construction. Skills will be taught as students make garments to enhance their own wardrobe. *Students will be responsible for the cost of project materials.*

451 FOODS AND NUTRITION EDUCATION - 1 credit

Grades 9, 10, 11, 12

Food preparation basics and the nutritional needs of the body will be studied. (Will satisfy Health 651 requirement.)

460 PARENTHOOD EDUCATION - 1 credit

Grades 9, 10, 11, 12

A child's physical, mental, social, and emotional development from conception to age five will be studied. Parenting skills, day care, safety and current issues are also covered. (Will satisfy Health 651 requirement.)

461 FAMILY LIVING - 1 credit

Grades 9, 10, 11, 12

This course examines the family structure from adolescence through the death of a spouse. Areas of emphasis include communication skills, dating, love, marriage, crises in marriage, plus human sexual development and information related to family planning and life styles. (Will satisfy Health 651 requirement.)

470 CONSUMER EDUCATION - 1 credit

Grades 9, 10, 11, 12

A course related to the economic needs and planning for individuals. Topics such as budgeting, insurance, banking, taxes and financing will be discussed.



Course Offerings

Math Department

Students are strongly encouraged to continue to take math courses through their high school career.

A. BASIC MATHEMATICS (500, 501, 502)

For students with extreme deficiencies in mathematics skills and the understanding of mathematics concepts.

B. INTEGRATED MATHEMATICS (525, 526, 527, 528)

This program is designed for students who want an introduction and understanding of the basic concepts of algebra, geometry, and their related topics. Students entering this program should be prepared to make connections between different branches of mathematics and technology. Students must have proficient reading and writing levels. When necessary, students must display the ability to apply their math skills to story problems. This course can meet the needs of students seeking a non-math/non-science college degree as long as all four courses in this program are successfully completed.

C. COLLEGE PREPARATORY (530, 531, 532, 540, 541, 542)

For students who want a thorough theoretical mathematics foundation. This sequence is recommended for students bound for a university.

Remedial	2 Year or Vocational Program	College Preparatory 4-year University
8th Fund 8	Gen 8	Pre Alg/Alg
Basic Math I	Intro to Algebra	Algebra
Basic Math II	Integrated I	Geometry
Basic Math III	Integrated II	Algebra II
Intro to Algebra	Integrated III	Trig/Pre Calc
	Integrated IV	AP Calculus
	Probability and Statistics <i>(May be taken alone or concurrently with Integrated III or Integrated IV)</i>	AP Statistics <i>(May be taken alone or concurrently with Trig/Precalc or AP Calc.)</i>
Teacher recommendations allow for lateral movement.		



Course Offerings

Math Department

500 BASIC MATHEMATICS I - 2 credits

Grades 9, 10, 11, 12, *Prerequisites: Counselor/departmental approval*

This course offers a basic introduction to content in the following areas: problem solving, applications with decimals and fractions, statistics, data analysis, and patterns and number sense.

501 BASIC MATHEMATICS II - 2 credits

Grades 10, 11, 12, *Prerequisites: 500 and Counselor/departmental approval.*

This course offers content in the following areas: integers, geometry, ratios, proportion and percent, probability, and a review of BASIC MATH I content.

502 BASIC MATHEMATICS III - 2 credits

Grades 9, 10, 11, 12

The course contains content in the following areas: problem solving, real numbers, statistics, data analysis, pattern and number sense, proportion, percent, probability, solving equations and inequalities, and appropriate applications in all areas.

520 INTRODUCTION TO ALGEBRA – 2 credits

Grades 9, 10, 11, 12

This course contains content in the following areas: operations with real numbers, proportions in algebra and geometry, percents, area, basic probability, and linear algebra.

525 INTEGRATED MATHEMATICS I - 2 credits

Grades 9, 10, 11, 12

This course is designed for students who want an introduction and understanding of the basic concepts of algebra and geometry. It contains content in the following areas: measurement, statistics, coordinates and functions, ratios, probability, direct variation, and linear equations as models and in problem solving. (NCAA)

526 INTEGRATED MATHEMATICS II - 2 credits

Grades 10, 11, 12, *Prerequisites: 525*

This course contains content in the following areas: reasoning and measurement, quadratic equations as models, sampling and reasoning, models of variation and growth, linear systems and matrices, and quadratic functions and graphs. (NCAA)

527 INTEGRATED MATHEMATICS III - 2 credits

Grades 11, 12, *Prerequisites: 526*

This course contains content in the following areas: coordinate geometry and quadrilaterals, counting strategies, probability and binomials, logic and proof, similar and congruent triangles, polynomial and rational functions, coordinates and figures in space, modeling problem situations, exploring and applying functions. (NCAA)

528 INTEGRATED MATH IV - 2 credits

Grade 12, *Prerequisites: 527*

This course contains content in the following areas: logical reasoning, solving and graphing linear and quadratic equations and systems of equations and inequalities, polynomial expressions, radical expressions, sequences and series, exponential and logarithmic functions, probability and statistics, trigonometry, and transformations of graphs. (NCAA)



Course Offerings

Math Department

530 ALGEBRA I - 2 credits

Grades 9, 10, 11, 12

This course contains content in the following areas — rules of operations, properties of numbers, integers, exponents, evaluation and simplification of algebraic expressions, solving equations, inequalities, exponential powers, operations with polynomials, factoring, rational expressions relations and functions, real numbers, Pythagorean theorem and solving equations with radicals. (NCAA)

531 PLANE GEOMETRY - 2 credits

Grades 9, 10, 11, 12, *Prerequisites: 530*

This course contains content in the following areas: proof, logic, parallel lines, triangles, and right triangles, congruency, equations, inequalities, quadrilaterals, similarity, circles, polygons, surface area and volume, and transformations. (NCAA)

532 ALGEBRA II - 2 credits

Grades 9, 10, 11, 12, *Prerequisites: 530*

This course contains content in the following areas: linear equations and inequalities, polynomials, problem solving, quadratic equations and inequalities, factoring, rational expressions, radicals and rational number exponents, quadratic formula, complex numbers, coordinate geometry, linear systems, matrices and determinants, functions, conics, and linear and quadratic systems. (NCAA)

540 PROBABILITY AND STATISTICS - 2 credits

Grades 11, 12, *Prerequisites: 530 or 526*

This course contains content in the following areas - central tendencies, dispersions, measures of position, graphs, distribution, probability, probability distribution, normal distribution, statistical process control, testing hypotheses, two parameter testing, correlation and regression and simulations. (NCAA)

541 PRE-CALCULUS - 2 credits

Grades 11, 12, *Prerequisites: 531 and 532*

The major goal of this course is a rigorous development of linear, polynomial, rational, exponential, logarithmic, and trigonometric functions needed for college level math courses. (NCAA)

This course will prepare a student for 542 AP CALCULUS

542 AP CALCULUS - 2 credits

Grade 12, *Prerequisites: 541*

This course contains content in the following areas: limits and their properties, differentiation and integration including applications and techniques, logarithmic, exponential and other transcendental functions. This is a rigorous college-level class that prepares the student to take the Advanced Placement Calculus AB Exam. (NCAA, AP, CLEP)

543 AP STATISTICS - 2 credits

Grades 11, 12, *Prerequisites: 532*

This course introduces students to the major concepts and tools for collecting, analyzing and drawing conclusions from data. Major topics include organizing data, designing experiments and simulations, probability and drawing inferences from data. This is a rigorous college-level class that prepares the student to take the Advanced Placement Statistics Exam. (NCAA, AP, CLEP)



Course Offerings

Music Department

Students enrolled in vocal or instrumental music classes will be required to participate in all concerts, festivals and other scheduled evening and weekend activities.

600 CONCERT BAND - 2 credits

Grades 9, 10, 11, 12, *Prerequisites: Enrollment by audition*
Students in Concert Band perform at numerous concerts throughout the year and at MSBOA Band Festivals. Emphasis is placed on the fundamentals of music performance—ear training, sight-reading, and technical development. Repertoire is of medium difficulty. Members of the Concert Band are encouraged to participate in the Marching Band. (The Marching Band performs at all home Varsity Football Games and various local parades.) Students are also encouraged to perform at MSBOA Solo and Ensemble Festivals.

601 SYMPHONY BAND - 2 credits

Grades 9, 10, 11, 12, *Prerequisites: Enrollment by audition*
This concert organization consists of the most advanced instrumental musicians. The Symphony Band performs numerous concerts throughout the school year. Repertoire is of advanced difficulty, and thus, a certain level of technical proficiency is expected. Members of Symphony Band are required to participate in Marching Band unless granted a waiver by the conductor. (The Marching Band performs at all home Varsity Football Games and various local parades.) Students are also encouraged to perform at MSBOA Solo and Ensemble Festivals.

609 MIXED CHORUS – 2 credits

Grades 9, 10, 11, 12, *Prerequisite: Teacher Recommendation*

Mixed Chorus is a vocal ensemble open to any student demonstrating the desire to improve his/her vocal and musicianship skills. Students will study a variety of musical styles. Emphasis will be placed on growth in vocal technique, music theory and the responsibilities and discipline necessary for participation in choir. This group participates in all major vocal music department performances.

610 TREBLE CHOIR - 2 credits

Grades 9, 10, 11, 12, *Prerequisites: Enrollment by audition only*

Treble Choir is a select vocal ensemble of female voices offered with emphasis placed on further development of vocal technique and sight singing skills. This group studies and performs a wide variety of styles of music: classical (including a variety of foreign language texts), folk, popular, jazz, and multi-cultural. This group participates in all major vocal music department performances, including MSVMA choral festivals. Individuals may be chosen to participate in MSVMA solo/ensemble festivals and honors choir.

611 CONCERT CHOIR - 2 credits

Grades 9, 10, 11, 12, *Prerequisites: Enrollment by audition only*

Concert Choir is a highly select vocal ensemble of male and female singers. Advanced musicianship skills are developed through rigorous training in sight singing, theory, and musical dictation. This group studies and performs a wide variety of styles of music: classical (including a variety of foreign language texts), folk, popular, jazz, and multi-cultural. This group participates in all major vocal music department performances, including MSVMA choral festivals. Individuals may be chosen to participate in MSVMA solo/ensemble festivals and honors choir.

615 MUSIC THEORY AND HISTORY – 2 credits

Grades 9, 10, 11, 12, *Prerequisites: Students must be able to read music*

This course is designed for students planning to pursue a major or minor in music at a college or university. One semester will focus on music theory. Students will receive knowledge of the fundamentals of music. One semester will focus on music history and appreciation. Students will receive knowledge and appreciation of the history of Western music beginning in Medieval times through the Renaissance, Baroque, Classical, Romantic and Contemporary Periods. Students should be able to read music before taking this course.



Course Offerings

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Physical Education/Health Department

Students enrolled in Physical Education classes will be required to dress in gym clothes and participate each day.

650 PHYSICAL EDUCATION - 1 credit

Grade 9

Emphasis is placed on introductory sports and recreational games, and developing athletic skills. Daily physical fitness is stressed with periodic assessments conducted throughout each marking period. (Two years of marching band may count for the PE650 graduation requirement)

651 HEALTH – 1 credit

Grade 9

Health class includes the study of body systems, physical well being, and healthful living practices. (Life Management Education 451, 460, 461 may be substituted for Health)

652 LIFETIME FITNESS I – 1credit

Grades 9, 10

A personal fitness class designed for students who prefer non-competitive atmosphere. Emphasis will be placed on baseline testing improvement in the five aspects of health fitness; cardiovascular endurance, flexibility, body composition, muscular strength and muscular endurance. Class is open to all 9th & 10th grade students who want to learn how to create their own personal fitness program. Fitness journals with personalized exercise logs will be mandatory. This class may have an attached fee if we have access to the Lapeer Recreation Center during schools hours. Ninth graders without PE credit will be given enrollment preference. This class counts as PE graduation credit. (Lapeer East)

660 ADVANCED PHYSICAL EDUCATION - 2 credits

Grades 10, 11, 12, *Prerequisites: 650*

Team and individual sports and games are stressed. Physical fitness assessments are conducted each marking period. There is an opportunity to improve sport skills and body conditioning. Being squad leaders, captains, and student assistants can develop leadership. This course may be repeated but cannot be taken concurrently with 670. (Due to space limitations at Lapeer West students may also be expected to engage in activities to improve body conditioning through fitness routines and weight lifting.)

670 PHYSICAL CONDITIONING - 2 credits

Grades 10, 11, 12

This course will provide students an opportunity to improve their overall physical conditioning and athletic skills to assist in reaching an individual's maximum physical potential. This will be accomplished by a variety of physical and skill related activities, tailored to meet an individual's specific needs. This course cannot be taken concurrently with 650 or 660. (Due to space limitations at Lapeer West, the gymnasium will be unavailable for this class. Students will engage in running, aerobic exercise and weight lifting only.)

671 ADVANCED PHYSICAL CONDITIONING – 2 credits

Grades 10, 11, 12, *Prerequisites: 650 with teacher recommendation*

This class would provide a more challenging opportunity for students who are serious about reaching a higher level of fitness. This goal would be accomplished by utilizing the Bigger, Faster, Stronger curriculum which provides a higher standard for fitness testing in strength, agility, flexibility and cardiovascular performance. A prerequisite for this class would be 650 along with an admission recommendation form signed by a teacher in the Physical Education Department. This course cannot be taken concurrently with 650, 660 or 670.



Course Offerings

Science Department

In today's world, knowledge of science is necessary to better understand the world around you. It is strongly recommended that students take three or four years of science. Students seeking college admission should include chemistry in their high school curriculum (710, 711 and 722 are not on a college preparatory curriculum).

Classes are offered at levels of instruction parallel to the student's needs and goals.

- A. Fundamental: A remedial class for students who achieve significantly below grade level, admitted by permission of science teacher, special education teacher or counselor only.
- B. Basic: Designed to provide a basic and solid foundation without details included in the college preparatory curriculum (only available to Lapeer East students).
- C. College Preparatory: For students that are planning to attend college or other students that are able to handle a more intense study.

700 FUNDAMENTAL PHYSICAL SCIENCE - 2 credits

Grades 9, 10, 11, 12

Prerequisites: Counselor/departmental approval

A remedial science course, students will receive basic instruction in physical science.

701 FUNDAMENTAL LIFE SCIENCE - 2 credits

Grades 10, 11, 12

Prerequisites: Counselor/departmental approval.

A remedial science course, students will receive basic instruction in life science.

710 BASIC PHYSICAL SCIENCE - 2 credits

Grades 9, 10, 11, 12

A general study of non-living matter for students not on a college-preparatory curriculum. (Lapeer East) (NCAA)

711 BASIC LIFE SCIENCE - 2 credits

Grades 10, 11, 12

A general study of living matter for students not on a college-preparatory curriculum. There are no dissections in this class. (Lapeer East) (NCAA)

715 PHYSICAL SCIENCE - 2 credits

Grades 9, 10, 11, 12

A detailed study of non-living matter for the college-bound student. Concurrent enrollment in an algebra or integrated math course is expected. (NCAA)

720 BIOLOGY I - 2 credits

Grades 10, 11, 12

A study of living matter in all its forms. (At Lapeer West, students will fulfill the life science graduation requirement with this class. NCAA, CLEP)

721 BIOLOGY II - 2 credits

Grades 11, 12, *Prerequisites: 720 C+ or above*

A continuation of Biology I, this second year of biology reviews key concepts and completes the study of all living things, which will include a mammalian dissection. (NCAA, CLEP)



Course Offerings

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Science Department

722 BIOLOGY/CHEMISTRY LAB - 2 credits

Grades 11, 12, *Prerequisites: 710 or 715 and 711 or 720*

This course provides students with an opportunity to apply information covered in physical science, biology and health. (This course does not fulfill Science graduation requirement) (Lapeer East)

730 CHEMISTRY I - 2 credits

Grades 11, 12, *Prerequisites: 530*

The study of the composition of matter and the changes that it undergoes. (NCAA)

731 AP CHEMISTRY II - 2 credits

Grades 11, 12, *Prerequisites: 730 and 532 (or concurrent enrollment in 532)*

This lab-oriented course is an extension of Chemistry I. It includes the theoretical aspects of chemistry, descriptive chemistry, semi-micro qualitative analysis, and other topics. Students are strongly encouraged to take the Advanced College Placement Test in the spring. (NCAA, AP)

740 PHYSICS - 2 credits

Grades 11, 12, *Prerequisites: 532, recommended 541*

An in-depth study of kinematics and dynamics in two dimensions, Newton's Law, time, light and gravitation. (NCAA)

750 ASTRONOMY/METEOROLOGY - 2 credits

Grades 11, 12, *Prerequisites: 715,720,530*

This class provides an exciting look at the stars, planets, constellations, and galaxies that make up our universe. Students will explore manned space travel and consider the possibilities of life in outer space. Current space related topics such as life on Mars would be included. Students will also learn about weather and its components and how they affect our atmosphere. Charts, maps and meteorological instruments will be used to make daily and weekly weather predictions. The mechanics of severe weather phenomena is included. Students may be trained as official Sky Warn spotters for the National Weather Service. (This course does not fulfill Science graduation requirement)



Course Offerings

Social Studies Department

When selecting courses from the Social Studies Department, students are advised that the following courses have comparable expectations regarding homework, class assignments, and testing : (1) 820 and 830 (2) 851 and (3) 870 and 871.

820 GLOBAL STUDIES - 2 credits

Grades 9, 10, 11, 12

A cultural and geographic study of Latin America, the Middle East, Africa, China and Japan. (NCAA)

830 EUROPEAN CIVILIZATION - 2 credits

Grades 9, 10, 11, 12

A cultural and historical study of early Greek and Roman civilization, the Renaissance and Reformation in Europe, and developments in Europe since 1848. (CLEP, NCAA)

840 FUNDAMENTAL AMERICAN DEMOCRATIC INSTITUTIONS - 2 credits

Grade 10

This course is designed to give students with special needs an overview of American Democratic Institutions.

845 AMERICAN DEMOCRATIC INSTITUTIONS - 2 credits

Grade 10

This class is a course required of all sophomores. The course emphasizes the institutions of government, economy, and law as they exist within the United States. The impact of geography on the economy in international trade as well as ecological issues is also included. The course is specially designed to meet the requirements of the Michigan high school proficiency test in social studies. (NCAA)

850 FUNDAMENTAL U.S. HISTORY - 2 credits

Grade 11, *Prerequisites: Concurrent enrollment in Communication Skills*

This course is designed to give students with special needs an overview of American history from the early life of the colonies to the present time.

851 U.S. HISTORY (1877-Present) - 2 credits

Grades 11, 12

This course is designed to give students an overview of American history from 1877 to the present time.

Highlights of the course include the Westward Movement, Industrialization, the Great Depression, the World Wars (I & II) and the Post-World War II years. (CLEP, NCAA)

853 AP U.S. HISTORY - 2 credits

Grade 11

Prerequisites: 845 with teacher recommendation, persuasive essay writing sample, and a strong recommendation to take the AP examination in U.S. History in May

Advancement Placement U.S. History is a challenging course offered to high school juniors that is meant to be the equivalent of a freshman college course whose successful completion may earn students college credit. It is a two-semester survey of American history from the age of exploration and discovery to the present. Self-motivation, excellent reading and writing skills, along with a willingness to devote considerable time to homework and study are necessary to succeed. Emphasis is placed on critical and evaluative thinking skills, essay writing, interpretation of original documents and historiography. (NCAA)

862 AP U.S. GOVERNMENT AND POLITICS - 2 credits

Grade 12, *Prerequisites: 845 and 851, or 853 with teacher recommendations, persuasive essay writing sample, and a strong recommendation to take the AP U.S. Government and Politics examination in May*

This course will give students an analytical perspective on government and politics in the United States. The course includes both the study of general concepts used to interpret U.S. politics and the analysis of specific examples. It requires familiarity with the various institutions, groups, beliefs, and ideas that constitute U.S. politics. Students will become acquainted with the variety of theoretical perspectives and explanations for various behaviors and outcomes. (NCAA)



Course Offerings

Social Studies Department

869 AP PSYCHOLOGY – 2 credits

Grades 11, 12

This AP course is equivalent to an introductory college course in psychology. Students should be highly motivated with an above average interest in the subject. 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 will be exposed to the psychological facts, principles, and phenomena associated with each of the major subfields within psychology. They also will learn about the methods psychologists use in their science and practice. Students may receive credit in both 870 and 869 if 870 is taken prior to 869. Student may not be concurrently enrolled in 869 and 870. (NCAA)

870 PSYCHOLOGY - 1 credit

Grades 11, 12

A study of the fundamentals of psychology, how people learn, what personality is, and what motivates people. Student may not be concurrently enrolled in 869 and 870 (CLEP, NCAA)

871 SOCIOLOGY - 1 credit

Grades 11, 12

The study of human relationships as related to the five social institutions: the family, religion, economy, politics, and education. (NCAA)

872 AP COMPARATIVE GOVERNMENT AND POLITICS – 2 credits

Grades 12, *Prerequisites: 845 and 851, or 853 with teacher recommendations, persuasive essay writing sample, and a strong recommendation to take the AP Comparative Government examination in May*

The course, AP Comparative Governments and Politics, will enable the student to understand the political structures and practices of four core countries. These countries are Great Britain, France, Russia/former Soviet Union, and China. A fifth country will be studied and will be selected from India, Mexico, or Nigeria. These countries provide examples of the major types of governments as well as providing a basis for interpreting political relationships and institutions found in virtually all the nation's political lives. The Arab world and Islam and/or contemporary issues will be included if time allows after the AP in May. (NCAA)

877 CRIMINOLOGY - 2 credits

Grades 11, 12

Ability to complete frequent and lengthy writing assignments. Ability to read and comprehend lengthy reading assignments — This course will focus on the study of crime in our society. Students will first examine the elements of crime, classification of crime, and causes of crime. Study of the history and development of law enforcement, courts and corrections will follow this. Special topics such as gangs, drugs and terrorism are also examined. (NCAA)

Yearbook

900 YEARBOOK - 2 credits

Grades 10, 11, 12

Prerequisites: Counselor/instructor approval

Students will produce and distribute the school yearbook. Enrollment is limited and the instructor selects class members after reviewing each student's background and skills. Skills that are helpful include interviewing, writing, art, photography, marketing, and typing. Students will have the opportunity to improve their abilities in all these areas through production projects. This class may be taken more than once. (Lapeer West)

901 STUDENT PUBLICATIONS – 2 to 4 credits

Grades 9, 10, 11, 12

This is a full year, 4-credit elective course for students in grades 9-12. Students will create and publish the school yearbook and the school newspaper. Students who enjoy writing, interviewing, photography, graphics, layout and print design will enjoy this class and learn applicable life skills. Revenue solicitation is expected of each student. The course will be blocked over a two-hour time slot. Good attendance, organizational skills, and excellent work habits are requirements. Good English and computer skills will be beneficial. Students considering this class must fill out an application that will also require at least one teacher recommendation. Students are encouraged to take the two-hour block, but may be taken for one hour. (Course may be taken more than once.) (Lapeer East)



Course Offerings

Special Education Department

Special education classes are designed for students who qualify under the state guidelines as Learning Disabled (LD), Speech and Language Impaired (SLI), Emotionally Impaired (EI), Mild Cognitively Impaired (MiCI), Visually Impaired (VI), Hearing Impaired (HI), and Physically and Otherwise Health Impaired (POHI), and have been placed in one or more of the above programs by an Individualized Education Planning Team (IEP). Special education classes provide basic instruction designed to build skills in specific areas relating to the high school curriculum.

Each special education student is also assigned to a special education teacher who is responsible throughout the school year to confer with parents, counselors, general and special education teachers, administrators and support personnel to monitor academic and social progress making modification as appropriate.

925 BASIC CLASSROOM STUDY SKILLS - 2 credits

Grades 9, 10, 11, 12

This course will explore different ways or methods of learning. Some examples of topics covered are: active listening, note taking, outlining, test-taking strategies, and understanding directions.

926 BASIC CLASSROOM ACADEMIC SUPPORT – 2 credits

Grades 9, 10, 11, 12

This class is designed to provide students with assistance and support in regard to classroom assignments, homework, and quizzes/tests.

930 BASIC CLASSROOM ENGLISH - 2 credits

Grades 9, 10, 11, 12

This course focuses on reading, spelling, writing, and vocabulary skills at levels appropriate to the special needs of the individual student.

932 BASIC CLASSROOM MATH - 2 credits

Grades 9, 10, 11, 12

Instruction is basic computation and problem solving skills at levels appropriate to the individual needs of students enrolled in the class. Department or IEP approval.

933 BASIC CLASSROOM HEALTH - 1 credit

Grade 9

An adjusted study of the course content presented in the regular education health class with accommodations appropriate to the individual student. Department or IEP approval.

935 BASIC CLASSROOM SOCIAL STUDIES - 2 credits

Grades 9, 10, 11, 12

A general presentation of remedial social studies skills applied to topics appropriate to the special needs of the individual student. Department or IEP approval.

936 BASIC CLASSROOM U.S. HISTORY - 2 credits

Grade 11

Topics in history/government which parallel those covered in the general education curriculum adjusted to the special needs of the individual student. Department or IEP approval.

937 BASIC CLASSROOM AMERICAN DEMOCRATIC INSTITUTION- 2 credits

Grade 10

Topics in history/government which parallel those covered in the general education curriculum adjusted to the special needs of the individual student. Department or IEP approval.

938 BASIC CLASSROOM PHYSICAL SCIENCE - 2 credits

Grades 9, 10

General skills and knowledge of physical science applied to topics appropriate to the special needs of the individual student. Department or IEP approval.

939 BASIC CLASSROOM LIFE SCIENCE – 2 credits

Grades 9, 10

General skills and knowledge of life science applied to topics appropriate to the special needs of the individual student. Department or IEP approval.

940 BASIC CLASSROOM EXPERIENCE-BASED CAREER EDUCATION (E.B.C.E.) – 2 credits

Grades 9, 10, 11, 12

Bannermania is the in-school business component of a class called Experience-based Career Education (E.B.C.E.). Students will spend time working on marketing, production, advertising, inventory, and growth of the business, as well as building work-related skills needed to be successful in the workplace. Department or IEP approval. (Available to East students only)



Course Offerings

Special Programs

950-954 STUDENT ASSISTANT - 2 credits

Grades 10, 11, 12,

Prerequisites: Application must be submitted for approval to the guidance office

Students enrolled in this subject will gain work experience in one of the following areas: general, attendance, or counseling offices; library; or an academic department. Grading will be on a credit/no credit basis. A maximum of four credits may be earned.

960 CADET TEACHER – 8th - 2 credits

Grades 11, 12

Students interested in the Human Services Career Pathway and particularly those interested in pursuing a degree in secondary education will gain work experience in the 8th grade classroom. The primary responsibilities of the cadet teacher would be to tutor students individually or in small groups in the subject matter; present information and instructions to the class; assist with make-up work; help to develop study skills strategies; and assist the mentor teacher in daily classroom activities and projects. Students will be required to attend a brief after school seminar twice per month with the coordinator. Applications and recommendations are to be submitted to the Cooperative Education coordinator for interviews. The principal determines final approval (Lapeer East).

961 CADET TEACHER – ELEMENTARY - 2 credits

Grades 11, 12

Students interested in the Human Services Career Pathway and particularly those interested in pursuing a degree in elementary education will gain work experience in the elementary classroom. The primary responsibilities of the cadet teacher would be to tutor students individually or in small groups in the subject matter; present information and instructions to the class; assist with make-up work; help to develop study skills strategies; and assist the mentor teacher in daily classroom activities and projects. Applications and recommendations are to be submitted to the Cooperative Education coordinator at each school for interviews. The principal determines final approval.

970 TECHNOLOGY ASSISTANT - 2 credits

Grades 10, 11, 12, *Prerequisites: Instructor approval*

Students will gain technical skills and work experience as they work with computers, printers, scanners, cameras,

and other media equipment as well as software programs. Students are required to belong to the school's Computer Club, which meets after school. The district's Network Administrator, the Library Media Specialist, and the Guidance Office must approve students interested in this program. Grading will be on a credit/no credit basis. A maximum of four credits may be earned.

980 COOPERATIVE EDUCATION - OCCUPATIONAL - 1-4 credits

Grades 11, 12

Students will receive occupational work experience in a related business course – Accounting I and II, Marketing I and II, Entrepreneurship or Sports and Entertainment Marketing. Students may receive one or two hours of release time and credit per semester depending on the number of hours of work experience. Students will work an average of 14 hours per week per hour of release time. The total hours of work and school should not exceed an average of 48 hours per week. Applications are to be submitted to the Cooperative Education coordinator at each school for interviews and final approval. In order to receive a passing grade for co-op, the student must pass the related class.

981 COOPERATIVE EDUCATION - SENIOR - 1 - 2 credits

Grades 12

Students will receive occupational work experience in a related course, such as Law, Yearbook (Journalism), Drafting, etc. Students will receive one hour of release time and credit per semester. Students will work an average of 14 hours a week per hour of release time. The total hour of work and school should not exceed an average of 48 hours per week. Applications are to be submitted to the Cooperative Education coordinator at each school for interviews and final approval. In order to receive a passing grade for co-op, the student must pass the related class.

DRIVER EDUCATION - 0 credits

Prerequisites: Students must be at least 14 years, 8 months and meet academic eligibility requirements (Refer to Driver Education Eligibility, page 3)

Parents will attend a mandatory registration meeting. The Board of Education annually determines whether a driver education program (segments 1 and 2) will be offered and the fees charged to the students.



Educational and Technology Center

Skilled Trades Courses

The Lapeer County Educational and Technology Center located in Attica, offers 18 programs, which provide students with marketable skills upon high school graduation. Brochures describing each program are available in the counseling office. Additional information may be obtained by calling the Ed-Tech Student Services Center at 664-1124.

Third and fourth year students are permitted to attend the Educational and Technology Center. Students attend either morning or afternoon sessions (no choice) at Ed-Tech, and also have three hours of regular classes at the home school. Ed-Tech programs are three class periods in length and grant three credits per semester.

Students accepted to attend the Educational and Technology Center would still be eligible to participate in school activities and athletics, and will receive a diploma from East or West upon graduation. Requirements for graduation remain the same for students enrolled in a Ed-Tech program.

Students who plan to attend Ed-Tech should:

- √ Choose one to three Ed-Tech programs before entering high school
- √ Take the required courses needed for graduation
- √ Attend the Ed-Tech orientation seminar and tour given by the counselors during 10th grade
- √ Apply for admission to the Ed-Tech Center in the counseling office during 10th or 11th grades
- √ Follow the transportation policy of the home school

A70-P70 AUTO BODY REPAIR/REFINISHING

Students will learn the fundamentals of collision repair, including refinishing, replacing and repairing damaged auto body panels. Instruction is based on current technology and involves an extensive amount of hands on experience to become a licensed technician. Workshoes recommended.

A71-P71 AGRICULTURE & DIESEL MECHANICS

Students will prepare for high skill, high wage positions in diagnosis, service, repair and maintenance of gasoline and diesel engines, tractors, heavy equipment and hydraulic systems through "hands-on" experience and safety training. Successful completion will assist the student to become a licensed technician.

A72-P72 AUTOMOTIVE MECHANICS

Students will learn how to diagnose, service and repair engines, transmissions, brakes, suspension systems and electronic ignition and computerized fuel injection systems using the latest tools, diagnostic equipment and procedures in a "hands-on" service facility. Successful completion may qualify the student to become a certified technician.

A73-P73 BUILDING TRADES

Students will experience "hands-on" training in safely using hand and power tools for jobs in computer assisted design, masonry, electrical plumbing, carpentry and home interior or exterior finishing leading to construction of an entire house. They will learn measuring and math skills which will assist in leading to licensing in a high skill, high wage career in the construction industry. Warm clothing needed. Skills USA membership \$13.50.

A74-P74 BUSINESS MANAGEMENT

Students enrolled in this program will select a major area of study in either accounting or administrative. No prior experience in either area is required, however students will be placed appropriately, according to abilities. Due to college articulation agreements, credit can be earned based on some components of the class. Students may be eligible to take the Microsoft Office User Specialist (MOUS) certification tests upon completion of the class.



Educational and Technology Center

Skilled Trades Courses

A75-P75 CAD

(COMPUTER AIDED DRAFTING OR DESIGN)

Computer Aided Drafting or Design is a technical, hands-on, visual program for students who like drawing, creating, or designing. On the computer, students will draw both 2D and 3D objects while learning fascinating, futuristic software. Students will create still as well as animated solid and wire frame models. The course features such 3D modeling programs as Inventor, AutoCAD 2002, 3D Studio (VIZ and MAX) and Architectural Desktop. Students participating in the CAD program will begin preparation for a well paying/high demand career in industrial or commercial design, animation, interior design, architecture or engineering.

A76-P76 COMPUTER NETWORKING/INTERNET

Information Technology certification offers preparation in the following training choices:

- ◆ A+ certification: Information Technology I – Cisco Networking Academy/Hewlett Packard sponsored curriculum.
- ◆ Network + certification: Information Technology II – Cisco Networking Academy/Hewlett Packard sponsored curriculum.
- ◆ CCNA certification: Cisco Networking Academy – four classes.
- ◆ Unix System Administration: Cisco Networking Academy/Sun Micro Systems sponsored curriculum.
- ◆ Web Design: Cisco Networking Academy/Adobe sponsored curriculum.

P77 COSMETOLOGY

Students will train to become licensed in cosmetology or nail technology. This is a two-year program which requires summer hours and working Saturdays. The Nail Technology component can be completed in one semester. Cosmetology is offered at an off-campus location and will include applied chemistry, anatomy, patron protection, personal hygiene and salon management. * Note: Visits must be arranged through home school counseling office.

Nail Kit cost \$370.00

Cosmetology Kit cost is \$750.00

A78-P78 CULINARY ARTS

A broad overview of the hospitality industry, the world's largest employer. Extensive "hands-on" learning in food preparation, catering, safety, and management will be provided in a student-operated restaurant. Under close supervision students develop people skills, a sound work ethic and skills needed to make them successful in the hospitality industry. This is a two-year program. Skills USA membership dues \$5.00

A79-P79 EARLY CHILDHOOD

Students prepare to care for children in private homes, day care centers, pre-schools, early elementary and other child service facilities. Students will be trained in personal care of children, interacting with children and co-workers, health, safety, growth and development, by participating as staff members and observing activities in a licensed pre-school located within the Early Childhood Program. Second year instruction consists of learning to develop, carry out and evaluate curriculum and field work.

A80-P80 ELECTRONICS

Students in Electronics will receive instruction designed for those who desire the career field of Electricity and/or Electronics: Troubleshooting/Repair; Car/Home Audio; TV/VCR/Radio Repair; Digital Electronics, computer maintenance and repair and training for college.

A81-P81 HEALTH OCCUPATIONS

Career exploration and training for entry-level positions in the health/wellness industry (nursing, home health care, physical therapy, occupational therapy, laboratory, pharmacy, dietary, X-ray, EMT, and medical offices.) Students receive classroom, laboratory and supervised "hands-on" clinical experiences, which meet the requirements for nurse aide certification (CNA). Students may participate in Health Occupations Students of America (HOSA), a student organization designed to provide leadership opportunities in the health field.



Educational and Technology Center

Skilled Trades Courses

A82-P82 AGRISCIENCE/HORTICULTURE

Agriscience is “hands-on” preparation for careers in growing, harvesting, processing and marketing plants and animals for food and natural aesthetics. Students will use the greenhouse, state-of-the-art lab, computer modules and retail store to prepare for a position in management, sales or technical career in horticulture, floriculture, biotechnology, animal science, aquaculture, landscaping, natural resources or greenhouse operation. Students will be members in the National FFA Organization, offering leadership, career opportunities and scholarship opportunities. Participation in this preparatory program creates great potential in a wide variety of fulfilling career and income possibilities.

A83-P83 MECHANICAL CONSTRUCTION

Students will be given a basic overview of carpentry, plumbing, heating, electrical wiring, air conditioning and sheet metal and sufficient time for specialization in one or more of these trade areas, while preparing for entry into the trade or college. Many of these trades offer opportunities for apprenticeship programs.

A84-P84 METAL TECHNOLOGY

Metal Technology introduces students to the “hands-on” real-life aspect of manufacturing and materials, tools, equipment, processes and safety necessary for use in this industry. The student will be introduced to machine tool operation, welding, CNC with MasterCam and may specialize in one of these components. Steel toe shoes recommended.

A85-P85 RECREATIONAL VEHICLE REPAIR

Students will learn how to service, repair and maintain two and four-cycle gasoline engines and controls on motorcycles, snowmobiles, outboard motors, chain saws, ATV's, lawn equipment and personal water craft. In a service school and retail setting, training is provided to prepare students to become licensed in a high wage, high skill position as an RVR Salesperson, mechanic, technician, engineer or shop owner.

A86-P86 SALES & MARKETING

Students will learn how to “move” a product from manufacturer to final consumer, entrepreneurial skills, sales, market research, promotions, economics, sports marketing and others. Classroom skills are put into practice in the student operated business: Bodega Gift and Bodega Snack Shops and reinforced through membership in DECA student marketing associations. DECA dues \$15.00.

A87-P87 PUBLIC SAFETY/PROTECTIVE SERVICES

A program designed for students interested in a career in law enforcement, fire fighting, EMS, corrections, industrial or corporate security. Students can explore careers in the public safety area through hands-on training, field trips, in-class exercises and job shadowing with local area agencies. This program is a good compliment to the Lapeer County Sheriff's Department Explorer Program. Students will be certified in CPR and First Aid upon successful completion of class. This is a two-year program. Uniform cost \$30.00.



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220-223 English	9, 10, 11, 12	2	17	Science	Grades	Sem	Page
232-233 AP English	11, 12	2	17	700 Fund. Physical Science	9, 10, 11, 12	2	27
240 Speech Comm	10, 11, 12	1	17	701 Fund. Life Science	10, 11, 12	2	27
241 Argu & Debate	10, 11, 12	1	17	710 Basic Phys. Science (E)	9, 10, 11, 12	2	27
242 Presen. Speech	11, 12	1	18	711 Basic Life Science (E)	10, 11, 12	2	27
243 Drama Literature	11, 12	1	18	715 Phys Science	9, 10, 11, 12	2	27
244 Creative Theatre	11, 12	1	18	720 Biology I	10, 11, 12	2	27
245 Contemp. Am. Lit.	11, 12	2	18	721 Biology II	11, 12	2	27
Foreign Language	Grades	Sem	Page	722 Bio/Chem Lab (E)	11, 12	2	28
300 French I	9, 10, 11, 12	2	18	730 Chemistry I	11, 12	2	28
301 French II	9, 10, 11, 12	2	18	731 AP Chemistry II	11, 12	2	28
302 French III	10, 11, 12	2	18	740 Physics	11, 12	2	28
303 French IV	11, 12	2	19	750 Astronomy/Meteorology	11, 12	2	28
304 AP French V	12	2	19	Social Studies	Grades	Sem	Page
310 Spanish I	9, 10, 11, 12	2	19	820 Global Studies	9, 10, 11, 12	2	29
311 Spanish II	9, 10, 11, 12	2	19	830 European Civilization	9, 10, 11, 12	2	29
312 Spanish III	10, 11, 12	2	19	840 Fund. ADI	10	2	29
313 Spanish IV	11, 12	2	19	845 ADI	10	2	29
314 AP Spanish V	12	2	19	850 Fund. US History	11	2	29
Humanities	Grades	Sem	Page	851 US History	11, 12	2	29
380 Humanities	10, 11, 12	2	19	853 AP US History	11	2	29
Industrial Tech	Grades	Sem	Page	862 AP US Government/Politics	12	2	29
400 Woods I	9, 10, 11, 12	2	20	869 AP Psychology	11, 12	2	30
401 Woods II	10, 11, 12	2	20	870 Psychology	11, 12	1	30
402 Woods III	11, 12	2	20	871 Sociology	11, 12	1	30
410 Metals I (E)	9, 10, 11, 12	2	20	872 AP Comp Govern/Politics	12	2	30
411 Metals II (E)	10, 11, 12	2	20	877 Criminology	11, 12	2	30
420 Small Engine Repair	9, 10, 11, 12	1	20	Yearbook	Grades	Sem	Page
421 Basic Elect. & Electronics	9, 10, 11, 12	1	20	900 Yearbook (West)	10, 11, 12	2	30
430 Draft I	9, 10, 11, 12	2	20	901 Publications (East)	9, 10, 11, 12	2 to 4	30
431 Adv Mechanical Drafting	10, 11, 12	2	20	Special Programs	Grades	Sem	Page
432 Architectual Drafting	10, 11, 12	2	20	Special Education	9, 10, 11, 12	2	31
433 Drafting - Independent Study	11, 12	2	21	Student Assistant	10, 11, 12	2	32
440 Industrial Tech (W)	9, 10, 11, 12	2	21	Cadet Teacher	11, 12	2	32
Life Management	Grades	Sem	Page	Dual Enrollment	11, 12	2	4
450 Clothing Const.	9, 10, 11, 12	1	21	Cooperative Education	11, 12	2	32
451 Nutrition Educ.	9, 10, 11, 12	1	21	Educational-Technical	11, 12	2	33-35
460 Parent Education	9, 10, 11, 12	1	21				
461 Family Living	9, 10, 11, 12	1	21				
470 Consumer Educ.	11, 12	1	21				

(E) Class available to Lapeer East students only
(W) Class available to Lapeer West students only

Career Pathways

What are the 6 Career Paths?

Arts and Communication

Careers in this path are related to humanities and performing, visual, literary and media arts. These include architecture; graphic, interior, and fashion design; writing; film; fine arts; journalism; languages; media; advertising; and public relations.

Business, Management, Marketing & Technology

Careers in this path are related to the business environment. These include entrepreneurship (business ownership); marketing, sales, computer and information systems, finance, accounting, personnel, economics, and management.

Engineering/Manufacturing & Industrial Technology

Careers in this path are related to technologies necessary to design, develop, install, and maintain physical systems. These include engineering, manufacturing, construction, service, and related technologies.

Health Sciences

Careers in this path are related to the promotion of health and treatment of diseases. These include research, prevention, treatment, and related health technologies.

Human Services

Careers in this path are related to economic, political, and social systems. These include education, government, law and law enforcement, religion, childcare, and social services.

Natural Resources & Agriscience

Careers in this path are related to agriculture, the environment, and natural resources. These include fisheries, forestry, horticulture, and wildlife.

Exploring Career Pathways

How can Career Pathways help me?

By exploring career majors and suggested pathways now, you can expand your choices for the future. The courses you select in high school can greatly assist your future career development. Career Pathways have been developed for you and your family to use to help make your career and college decisions easier.

By exploring different career pathways, you will see now many of the things you study (math, science, social studies) in school are important in many careers. When you see a connection between what you are learning in school and the demands of the workplace and college admissions requirements, chances are school will mean more to you. Plus, you will be more motivated because you will be in charge of where you are going, and pursuing interests and activities that matter to you.

Why are Career Pathways Important?

Today's job market demands a highly skilled work force. Many new jobs require at least one or more years of education beyond high school. So the courses you select in high school can prepare you for further education and employment. To be successful in today's labor market, you need to be prepared with a school and employment record that shows high academic achievement, good attendance, and that you are driven by a purpose and have goals.

Plan of Action

Goals are essential to your academic and occupational career. Goals are your road map, giving a destination and a route.

Where Can I Get More Information?

- ◆ Michigan Occupational Information Systems (MOIS) www.mois.org
- ◆ www.bridges.com
- ◆ www.lehs.lapeer.org
- ◆ www.lwhs.lapeer.org



Arts and Communication

What is Arts and Communication Pathway?

The Arts and Communications Pathway refers to career fields and programs of study that are related to: humanities, media arts, literary arts, technical arts, performing arts, and visual arts.

Arts and Communications is a broad field and includes programs such as:

Creative Writing	Film Production
Journalism	Radio/Television Production
Music	Advertising
Public Relations	

How do I know if this Pathway is for me?

People who are successful in Arts and Communications occupations possess some of the following traits:

- ◆ Work well with people
- ◆ Have artistic and creative abilities
- ◆ Enjoy using computers and technology
- ◆ Possess the art of persuasion
- ◆ Have effective communication skills
- ◆ Want to be part of a team
- ◆ Take on a leadership role on projects
- ◆ Have good hand/eye coordination

Career-Related Electives

9th	10th	11th	12th
Life Management	Life Management	Speech Electives	Speech Electives
Foreign Language	Foreign Language	Humanities	Humanities
Business Electives	Business Electives	Business Electives	Business Electives
Music	Music	Computer Applications	Computer Applications
Computer Applications	Computer Applications	Social Studies Electives	Social Studies Electives
Art	Art	Appropriate Ed Tech Prog.	Appropriate Ed Tech Prog.
Social Studies Electives	Social Studies Electives	Adv Foreign Language	Adv Foreign Language
		Advanced Art	Advanced Art

Career Possibilities

High School plus Training	Community College/ Technical School	Four Plus Years College/University
Actor/Actress	Broadcast Technician	Author
Driving Instructor	Commercial Artist	Elementary School Teacher
Merchandise Displayer	Floral Designer	Geographer
Model	Photographer	Journalist
Musician and Composer	Public Relations Specialist	Musician/Composer
Photographer	Radio Operator	Podiatrist
Sports Professional	Teacher Aide	Sociologist
Telecommunications Analyst	Telecommunications Analyst	Technical Writer



Business and Management



What is the Business and Management Pathway?

The Business and Management Pathway refers to career fields and programs of study that are related to the business environment.

The Business and Management Pathway includes fields such as:

- | | |
|-------------------------------|-------------|
| Sales and Marketing | Finance |
| Hospitality and Tourism | Economics |
| Computer Information Services | Advertising |
| Administration and Management | |

How do I know if this Pathway is for me?

People who are successful in Business and Management occupations possess some of the following traits:

- ◆ Work well with people
- ◆ Are well organized and able to meet deadlines
- ◆ Enjoy using computers and technology
- ◆ Can convince others to follow their lead
- ◆ Enjoy work that is detailed
- ◆ Work well under pressure
- ◆ Have effective communication skills
- ◆ Want to be part of a team
- ◆ Have effective decision-making skills
- ◆ Enjoy competition

Career-Related Electives

9th

- Intro to Business
- Life Management
- Computer Applications
- Keyboarding/WP
- Foreign Language

10th

- Intro to Business
- Life Management
- Computer Applications
- Keyboarding
- Foreign Language
- Accounting
- Marketing I

11th

- Accounting
- Economics
- Bus. Law/Personal Law
- Marketing I
- Marketing II
- Speech Electives
- Social Studies Electives
- Appropriate Ed Tech Prog.
- Sports Mgmt/Entrepren.

12th

- Accounting
- Economics
- Bus. Law/Personal Law
- Marketing I
- Marketing II
- Speech Electives
- Social Studies Electives
- Appropriate Ed Tech Prog.
- Sports Mgmt/Entrepren.

Career Possibilities

High School plus Training

- Bank Teller
- Cashier
- Estimator
- Insurance Claims Clerk
- Mail Clerk
- Payroll Clerk
- Tax Preparer
- Travel Agent

Community College/ Technical School

- Clerical Supervisor
- Computer Service Technician
- Court Reporter
- Food Service Manager
- Hotel/Motel Manager
- Legal Assistant
- Real Estate Agent
- Travel Agent

Four Plus Years College/University

- Accountant/Auditor
- City Manager
- Computer Systems Analyst
- Financial Analyst
- Health Administrator
- Human Resource Manager
- Political Scientist
- Retail Sales Manager



Health and Science



What is the Health and Science Pathway?

The Health and Science Pathway refers to career fields and programs of study that are related to the promotion of health, as well as the treatment of injuries, conditions and diseases.

The Health and Science Pathway includes fields such as:

- | | |
|-----------|----------------|
| Medicine | Rehabilitation |
| Dentistry | Fitness |
| Nursing | Nutrition |
| Therapy | Hygiene |

How do I know if this Pathway is for me?

People who are successful in Health and Science occupations possess some of the following traits:

- ◆ Work well with and enjoy helping people
- ◆ Are well organized and keep accurate records
- ◆ Work reasonable well under stress and crisis
- ◆ Like being given responsibility
- ◆ Are willing to learn and use new technology
- ◆ Have an interest in how the human body works
- ◆ Enjoy and do well in science and math classes
- ◆ Like working with their hands
- ◆ Understand and follow directions well
- ◆ Have effective decision-making skills
- ◆ Can follow established procedures

Career-Related Electives

9th	10th	11th	12th
Foreign Language	Foreign Language	Advanced Science	Advanced Science
Health	Advanced Foreign Language	Life Management	Life Management
Nutrition Education	Health	Appropriate Ed Tech Prog.	Appropriate Ed Tech Prog.
Parenthood Education	Nutrition Education	Speech Electives	Speech Electives
Family Living	Parenthood Education	Sociology	Sociology
	Family Living	Psychology	Psychology

Career Possibilities

High School plus Training	Community College/ Technical School	Four Plus Years College/University
Animal Caretaker	Dental Assistant	Chiropractor
Dispensing Optician	Dental Hygienist	Dentist
Electrocardiograph Technician	Dietetic Technician	Dietitian
Home Health Aide	Electrocardiograph Technician	Health Administrator
Occupational Therapy	Medical Assitant	Nurse Anesthetist
Optical Laboratory Technician	Nuclear Medicine Technologist	Optometrist
Pharmacy Technician	Radiologic Technician	Psychiatrist
Veterinary Assistant	Registered Nurse	Veterinarian



Human Services



What is the Human Service Pathway?

The Human Service Pathway refers to career fields and programs of study that are related to economic systems, political systems, and social services and personal services.

The Human Service Pathway includes fields such as:

Education	Child/Family Services
Law and Legal Studies	Mental Health
Law Enforcement	Religion

How do I know if this Pathway is for me?

People who are successful in Human Service occupations possess some of the following traits:

- ◆ Enjoy helping people
- ◆ Work well in groups or teams
- ◆ Value the ability to make a difference with their work
- ◆ Possess good speaking and presentation skills
- ◆ Enjoy learning about the way people behave
- ◆ Enjoy speaking out for a cause
- ◆ Work reasonable well under pressure
- ◆ Enjoy solving problems
- ◆ Follow directions well
- ◆ Have effective decision-making skills

Career-Related Electives

9th	10th	11th	12th
Foreign Language	Foreign Language	Speech Electives	Speech Electives
Business Electives	Business Electives	Adv Foreign Language	Adv Foreign Language
Parenthood Education	Parenthood Education	Appropriate Ed Tech Prog.	Appropriate Ed Tech Prog.
Family Living	Family Living	Psychology	Psychology
Health	Health	Sociology	Sociology
Nutrition Education	Nutrition Education	Business Electives	Business Electives
Computer Applications	Computer Applications	Probability/Statistics	Probability/Statistics

Career Possibilities

High School plus Training	Community College/ Technical School	Four Plus Years College/University
Bank Teller	Cosmetologist	Elementary School Teacher
Bus Driver	Fire Fighter	Human Resource Manager
Child Care Worker	Flight Attendant	Lawyer
Corrections Officer	Floral Designer (florist)	Private Investigator
Fire Fighter	Police Officer/Detective	Psychiatrist
Mail Carrier	Police Supervisor	Social Worker
Police Officer/Detective	Teacher Aide	Pathologist/Audiologist
Truck Driver	Travel Agent	Substance Abuse Counselor



Engineering and Industrial

What is the Engineering and Industrial Pathway?

The Engineering and Industrial Pathway refers to career fields and programs of study that are related to the promotion of health, as well as the treatment of injuries, conditions and diseases.

The Engineering and Industrial Pathway includes fields such as:

Architecture	Manufacturing and Technology
Drafting	Mechanics and Repair
Engineering	Production and Construction
Robotics	Electronics

How do I know if this Pathway is for me?

People who are successful in Engineering and Industrial occupations possess some of the following traits:

- ◆ Think and solve problems in a logical manner
- ◆ Have good hand/eye coordination
- ◆ Enjoy work that is detailed
- ◆ Like to take things apart and put them together
- ◆ Are good at math and science
- ◆ Are curious about the way things work
- ◆ Can follow detailed diagrams

Career-Related Electives

9th	10th	11th	12th
Art	Art	Advanced Drafting	Advanced Drafting
Intro to Business	Intro to Business	Appropriate Ed Tech Prog.	Appropriate Ed Tech Prog.
Drafting	Drafting	Advanced Art	Advanced Art
Computer Applications	Computer Applications	Advanced Industrial Art	Advanced Industrial Art
Metals	Metals	Modular Technology	Modular Technology
Basic Electricity	Basic Electricity	Advanced Science	Advanced Science
Small Engine Repair	Small Engine Repair	Advanced Math	Advanced Math
Woods	Woods	Advanced Computer	Advanced Computer
Industrial Technology	Research & Development	Probability/Statistics	Probability/Statistics
Foreign Language	Industrial & Technology	Research & Development	Research & Development
		Industrial Technology	Industrial Technology
		Economics	Economics
		Business/Personal Law	Business/Personal Law

Career Possibilities

High School plus Training

Auto Mechanic
Cement Mason
Civil Engineering Technician
Locomotive Engineer
Office Machine Repair Technician
Robot Technician
Telephone Installer/Technician
Welder

Community College/ Technical School

Auto Mechanic
Broadcast Technician
Drafter
Flight Engineer
Engineering Technician
Microcomputer Specialist
Printing/Platemaker
Truck/Bus Mechanic

Four Plus Years College/University

Aircraft Pilot
Civil Engineer
Electrical/Electronics Engineer
Industrial Engineer
Local Area Network (LAN)
Marine Engineer/Architect
Nuclear Engineer
Surveyor



Natural Resources

What is the Natural Resources Pathway?

The Natural Resources Pathway refers to career fields and programs of study that are related to economic systems, political systems, and social services and personal services.

The Natural Resources Pathway includes fields such as:

- | | |
|-----------------------|---------------------|
| Agriculture | Forestry |
| Earth Science | Horticulture |
| Environmental Science | Wildlife Management |
| Fisheries Management | |

How do I know if this Pathway is for me?

People who are successful in Natural Resources occupations possess some of the following traits:

- ◆ Work well on their own or with a few people
- ◆ Like to study things and figure out how they work
- ◆ Like discovering how things grow and thrive
- ◆ Enjoy working outdoors and in nature
- ◆ Are willing to learn and use new technology
- ◆ Enjoy and do well in science and math classes
- ◆ Like working with their hands
- ◆ Enjoy physical activity

Career-Related Electives

9th

Computers
Industrial Arts Electives
Intro to Business
Foreign Language

10th

Computers
Industrial Arts Electives
Intro to Business
Foreign Language
Advanced Foreign Language

11th

Advanced Industrial Arts
Probability/Statistics
Appl Biology/Chemistry
Advanced Sciences
Appropriate Ed Tech Prog.
Advanced Math

12th

Advanced Industrial Arts
Probability/Statistics
Appl Biology/Chemistry
Advanced Sciences
Appropriate Ed Tech Prog.
Advanced Math

Career Possibilities

High School plus Training

Conservation Officer
Food/Dairy Processing
Forestry Technician
Groundskeeper
Horticultural Nursery Worker
Logging Worker
Pest Controller
Water/Wastewater Plant Operator

Community College/ Technical School

Farm Supervisor
Farmer/Farm Manager
Forester/Conservationist
Geologist
Landscape Architect

Four Plus Years College/University

Agricultural Engineer
Astronomer
Biochemist
Forester/Conservationist
Geologist
Landscape Architect
Meteorologist
Physicist

