

2017-2018

# Lake Shore High School Course Offering Guide

Comprehensive List of Courses and Course Descriptions



# Lake Shore Public Schools

## Administrative Offices

28850 Harper Avenue  
St. Clair Shores, Michigan 48081  
(586) 285-8480  
[www.lakeshoreschools.org](http://www.lakeshoreschools.org)

## Board of Education

Mrs. Shannon Harvey, President  
Mrs. Sharon Bartl, Vice President  
Mr. Kurt Ziegler, Secretary  
Mrs. Susan DeLong, Treasurer  
Mr. James Graver, Trustee  
Mr. Joshua Denzler, Trustee  
Ms. Elizabeth Munger, Trustee

## Central Administration

- Dr. Joseph DiPonio, Superintendent of Schools  
586-285-8480
- Ms. Mary Faley, Assistant Superintendent for  
Educational Services  
586-285-8460
- Ms. Dee Ann Irby, Assistant Superintendent for  
Administrative and Business Services  
586-285-8470

## Lake Shore High School

22980 Thirteen Mile Road  
St. Clair Shores, Michigan 48082  
(586) 285-8900  
<http://www.lakeshoreschools.org/lakeshore/index.html>

## LSHS Administration

- Mrs. Janelle Bross, Principal  
586-285-8900
- Mr. Richard Popp, Dean of Students  
586-285-8995
- Mr. Todd Stevens, Assistant Principal  
586-285-8907
- Mr. John Hartley, Athletic Director  
586-285-8903

## Guidance & Counseling Department

- Ms. Ann Lukacsy (Class of 2017 and Freshmen A–G )  
586-285-8913
- Mrs. Julie Weiss (Class of 2018 and Freshmen H–O )  
586-285-8914
- Dr. Jeff Lip (Class of 2016 and Freshmen P–Z)  
586-285-8915

# Contents

Admission Standards to State Universities in Michigan.....	4
Advanced Placement, Honors and other Accelerated Courses of Study.....	4
Class Rank.....	5
Honor Points.....	5
Equal Education Opportunity Non-Discrimination Statement.....	6
Arts and Communications Pathway .....	7
Business, Management, Marketing & Technology Pathway.....	8
Engineering/Manufacturing and Industrial Technology Pathway.....	9
Environmental Science Pathway.....	10
Health Sciences Pathway.....	11
Human Services Pathway.....	12
Consortium Courses.....	13
Hybrid Course Description.....	13
Early Graduation Requirements.....	14
Dual Enrollment.....	15
9 <sup>th</sup> Grade Course Offerings.....	16
Graduation Requirements.....	17
Scheduling and Course Selection.....	17
Schedule Changes.....	18
Components of Successful Scheduling.....	18
Proposed Scheduling Timeline.....	19
Testing Out.....	20
Trimester Guide.....	21
NCAA Eligibility .....	22
Division I Sliding Scale .....	24
Academic Offering Guide.....	25

## **Admission Standards to State Universities in Michigan** [\(Return to “Contents”\)](#)

The state universities of Michigan have adopted specific admissions requirements for students who attend one of the 15 public universities. The statement is a result of an initiative to improve academic preparation of students seeking admission to a state university. The President’s Council developed a document entitled *Designing Your Future* in which students were provided guidance in selecting courses to enhance their preparation for university level work. The revised version of *Designing Your Future* outlines selected course completion requirements while retaining some of the original recommendations. The state universities have agreed that to be eligible for regular admission to a four-year degree program, a high school student must successfully complete the following course requirements:

- English - four years required
- Mathematics - four years required
- Biological/Physical Sciences - three years required,
  - One year of Biology required,
  - One year either Chemistry or Physics required,
  - One semester of Earth Science required (Class of 2020 and beyond),
  - And one semester of another science credit required (At least one year of a laboratory course is also strongly recommended.)
- History and Social Sciences - three years required, one year of American History required and one year of World History required
- World Language - Two years required
- Prospective students are also encouraged to complete courses in the following areas:
- Fine and Performing Arts - two years strongly recommended
- Computer Literacy - one year of hands-on experience in using computers 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 universities of their choice. In all instances, each university has final authority for admission decisions, based on the level of achievement required and other indicators of potential for academic success. These requirements are typical for most colleges and universities throughout the country.

### **Advanced Placement, Honors and other Accelerated Courses of Study**

Advanced placement, honors and other advanced courses are intended for students who have demonstrated superior skills in the subject area. Students and parents should be aware that transcripts prepared for post-secondary institutions specifically identify advanced placement and honors courses. Many admitting offices do take into account the comparative difficulty of completed honors courses, although there is no guarantee that individual institutions will make such allowances. Many admitting offices recalculate transcripts and grade point averages when evaluating transcripts for acceptance into post-secondary studies.

Advanced placement classes are designed to offer a challenge to students who have demonstrated exceptional ability in certain academic areas. Once a student has signed up and been scheduled into one of these classes, they will be expected to remain in this class for the entire school year. Students are also expected to take the advanced placement exam in May if applicable.

## **Class Rank** [\(Return to "Contents"\)](#)

Class rank is determined by calculating each student's cumulative grade point average. Final senior class rankings are determined at end of the spring term before graduation. In the event that circumstances arise where third term grades cannot be accurately calculated, second trimester grades will be used to determine class ranking. Class Valedictorian(s) will be determined at the third decimal. In the event that there are two or more Valedictorians, a Salutatorian will not be recognized for that graduating class. The following ranks will be recognized at Senior Honor's Night and announced as students are named at the graduation ceremony:

3.50-3.69 Cum Laude  
3.70-3.89 Magna Cum Laude  
3.90-4.0+ Summa Cum Laude

The Senior Class Valedictorian will be offered the opportunity to speak at the graduation ceremony. In the event that the class Valedictorian does not want to speak at the ceremony, an application process will be implemented. The Senior Class President will serve as Master of Ceremonies at the graduation ceremony. Please see the Senior Class Advisor for information regarding the application process for the senior class speaker.

## **Honor Points**

Students pursuing course work in designated advanced areas of study will be awarded an honor point for those courses. Honor points are awarded for those courses in which the student earns a C letter grade or higher. In a trimester schedule, the honor point is distributed over three terms (Fall term .33, Winter term, .33, and Spring term .34; equaling one honor point). The following courses are eligible to earn an honor point:

### **Lake Shore High School Courses**

AP Art Studio Portfolio, AP Biology, AP Calculus,  
AP Chemistry  
AP Economics  
AP English Language and Composition,  
AP English Literature and Composition,  
AP Government, AP Psychology, and  
AP United States History

### **Macomb Math, Science and Technology Courses**

AP Biology w/ Research  
AP Calculus  
AP Chemistry w/ Research  
AP Physics w/ Research  
Biology I  
Calculus

Chemistry I  
Functions, Statistics, and Trigonometry  
Pre Calculus with Discrete Mathematics  
Geometry and Algebra II with Transformations  
Interdisciplinary Studies III (IDS III)  
Physics I

## **Equal Education Opportunity Non-Discrimination Statement** [\(Return to "Contents"\)](#)

Lake Shore Public Schools is an equal educational opportunity school and complies with all federal and state laws and regulations prohibiting discrimination. Lake Shore Public Schools are intended to be fair, reasonable and for the good of the school and of the students. It is the policy of the Lake Shore Board of Education that no person or student shall be discriminated against, excluded from participation in, denied access to classes or programs or be otherwise subjected to discrimination on the basis of race, color, religion, national origin or ancestry, age, sex, marital status, (physical characteristics) or physical limitations in its academic and vocational programs and activities for which a student is otherwise eligible.

Complaints of such discrimination must be made in writing to the principal of the school by parent/guardian on behalf of their son/daughter or by an adult student on his/her own behalf. The principal will respond to properly made complaints within ten (10) school days. Complaints not settled by the principal may be appealed in writing to the Assistant Superintendent of Educational Services, 28850 Harper, St Clair Shores, Michigan, 48081, (586) 285-8460. Complaints may also be made to the Office for Civil Rights, U.S. Department of Education, 600 Superior Avenue East, Suite 750, Cleveland, OH 44114-2611.

The Assistant Superintendent of Educational Services is designated as the compliance officer and is responsible for the District's compliance with Federal and State laws and regulations, including Title II, Title VI and VII of the Civil Rights Act of 1964; Title IX of the Education Amendment Act of 1972; and Section 504 of the Rehabilitation Act of 1973. The Assistant Superintendent shall assure that notice of the rights provided under the preceding Acts are provided to students, their parents, staff members, and the general public.

# Arts and Communications Pathway [\(Return to "Contents"\)](#)

Careers in this pathway are related to the 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. Character Traits: Are you a creative thinker? Are you imaginative, innovative, and original? Do you like to communicate ideas? Do you like making crafts, drawing, or playing a musical instrument, taking photos, or writing stories?

## Associates Degrees

Applied Speech Communication  
Graphic Design  
Legal Studies  
Printing and Digital Graphic Imaging  
Technology

## Bachelor's Degrees

Advertising  
Applied Speech Communication  
Automotive Writing Concentration  
Communication  
Computer Information Concentration  
English Education  
Graphic Design  
Multimedia Writing Concentration  
Music Industry Management  
New Media Printing and Publishing  
Printing Management  
Public Relations  
Publication Management Concentration  
Scientific and Medical Writing Concentration  
Technical and Professional Communication  
(with tracks)  
Technical Journalism Concentration  
Television and Digital Media Production

## Recommended Electives

Advanced Visual Arts  
Computer Technology I-II  
Creative Writing  
Design Studio I-II  
Drawing/Design  
Educational Paradigms  
Engineering Technology  
Film in our World  
Foreign Language  
Hospitality & Culinary Arts I-II  
Intro to Architectural Design  
Intro to Drama  
Intro to Music  
Intro to Visual Arts  
Jazz Band  
Lake Shore Singers  
Marketing & Sales  
Painting  
Psychology  
Principles of Leadership  
Public Speaking  
Shorian Singers  
Symphonic Band  
TV Broadcasting I-II  
Wind Ensemble  
Women's Chorale  
Women's Glee Club  
Writing for Publications I and II

# Business, Management, Marketing & Technology Pathway [\(Return to "Contents"\)](#)

Careers in this path are related to the business environment. These include entrepreneur, sales, marketing, computer/information systems, finance, accounting, personnel, economics, and management.

Character Traits: Do you enjoy being a leader, organizing people, planning activities, and talking? Do you like to work with numbers or ideas? Do you enjoy carrying through with an idea and seeing the end product? Do you like things neat and orderly? Would you enjoy balancing a checkbook, following the stock market or holding an office?

## **Associates Degrees**

Accounting  
Computer Information Systems  
General Business  
Legal Studies  
Medical Record Technology  
Restaurant and Food Industry Management  
Visual Design and Web Media

## **Bachelor's Degrees**

Accountancy  
Actuarial Science  
Advertising  
Automotive and Heavy Equipment Management  
Business Administration  
Business Education  
Computer Information Systems  
Computer Networks and Systems  
Construction Management  
E-Commerce Marketing  
Facilities Management  
Finance  
Golf Management, Professional  
Health Care Systems Administration  
Hotel Management  
Human Resource Management  
International Business  
Management  
Marketing  
Mathematics, Applied  
Medical Record Administration  
Music Industry Management  
Operations Research Concentration  
Operations and Supply Management  
Public Administration  
Public Relations  
Publication Management Concentration  
Recreation Leadership and Management  
Resort Management  
Small Business Management and Entrepreneurship  
Statistics Concentration  
Technical and Professional Communication  
Tennis Management, Professional  
Training in Business and Industry  
Visual Design and Web Media

## **Recommended Electives**

Accounting I-II  
Business Law  
Computer Technology  
Computer Technology II  
Economics  
Financial Management  
Foreign Language  
Intro to Marketing  
Marketing & Sales  
Personal Finance  
Principles of Leadership



# Engineering/Manufacturing and Industrial Technology Pathway [\(Return to "Contents"\)](#)

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.

Character Traits: Are you mechanically inclined and practical? Do you like reading diagrams and blueprints, and drawing building structures? Are you curious about how things work? Would you enjoy painting a house, repairing cars, wiring electrical circuits, or woodworking?

## Associates Degrees

Architectural Technology  
Automotive Service Technology  
Building Construction Technology  
CAD Drafting and Tool Design  
Civil Engineering Technology  
HVACR Technology  
Heavy Equipment Technology  
Industrial Chemistry Technology  
Industrial Electronics Technology  
Manufacturing Tooling Technology  
Mechanical Engineering Technology  
Plastics Technology  
Printing and Digital Graphic Imaging Technology  
Rubber Technology  
Surveying Technology  
Welding Technology

## Bachelor's Degrees

Automotive Body  
Automotive Engineering Technology  
Automotive and Heavy Mathematics, Applied  
Computer Networks and Systems  
Construction Management  
Electrical/electronic Engineering Technology  
Equipment Management  
Facilities Management  
HVACR Engineering Technology  
Manufacturing Engineering Technology  
Mathematics  
Mechanical Engineering Technology  
New Media Printing and Publishing  
Operations Research Concentration  
Plastics Engineering Technology  
Printing Management  
Product Design Engineering Technology  
Quality Engineering Technology  
Rubber Engineering Technology  
Statistics Concentration  
Heavy Equipment Service  
Engineering Technology  
Surveying Engineering  
Welding Engineering Technology

## Recommended Electives

Auto Body Repair  
Building Maintenance  
Building Renovations  
Building Trades  
Calculus  
Chemistry  
Computer Technology  
Computer Technology II  
Data Analysis & Statistics  
Discrete Mathematics  
Design Studio  
Drawing/Design  
Foreign Language  
Intro to Architectural Design  
Intro to Building Renovations  
Intro to Business Technology  
Intro to Visual Arts  
Physics

# Environmental Science Pathway [\(Return to "Contents"\)](#)

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

Character Traits: Are you a nature lover? Are you practical, curious about the physical world, and interested in plants and animals? Do you enjoy hunting or fishing? Do you like to garden or mow the lawn? Are you interested in protecting the environment?

## **Associates Degrees**

Industrial Chemistry Technology  
Ornamental Horticulture Technology  
Surveying Technology

## **Bachelor's Degrees**

Applied Biology  
Biochemistry  
Biology  
Biotechnology  
Chemistry  
Environmental Biology Concentration  
Pre-Veterinary Medicine

## **Recommended Electives**

Accounting  
Biology (AP)  
Computer Technology II  
Data Analysis and Statistics  
Environmental Science  
Foreign Language  
Intro to Business Technology  
Marketing  
Public Speaking

# Health Sciences Pathway [\(Return to "Contents"\)](#)

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

Character Traits: Do you like to care for people or animals that are sick or help them to stay well? Are you interested in diseases and in how the body works? Do you enjoy reading about science and medicine? Would it be fun to learn first aid or volunteer at a hospital or veterinary clinic?

## **Associates Degrees**

Dental Assistant  
Dental Hygiene  
Diagnostic Medical Sonography (Ultrasound)  
Industrial Chemistry Technology  
Medical Laboratory Technology  
Medical Record Technology  
Nuclear Medicine Technology  
Nursing: Technical (RN)  
Pre-Mortuary Science (pre-professional)  
Pre-Optometry (pre-professional)  
Pre-Pharmacy (pre-professional)  
Pre-Science (pre-professional)  
Radiography  
Respiratory Care

## **Bachelor's Degrees**

Allied Health Education  
Applied Biology (with tracks)  
Environmental Biology Concentration  
Forensic Biology Concentration  
Pre-Dentistry Concentration  
Pre-Medicine Concentration  
Pre-Physical Therapy Concentration  
Pre-Veterinary Medicine Concentration  
Biochemistry  
Biology  
Biology Education  
Biotechnology  
Chemistry  
Chemistry Education  
Health Care Systems Administration  
Medical Record Administration  
Medical Technology  
Nuclear Medicine Technology  
Nursing: Professional (BSN)  
Technical and Professional Communication  
Scientific and Medical Writing Concentration

## **Recommended Electives**

AP Biology  
Aerobics  
Anatomy and Physiology  
Computer Technology  
Computer Technology II  
Data Analysis & Statistics  
Dental Careers  
Educational Paradigms  
Fitness/Conditioning  
Foreign Language  
Human Health  
Intro to Business Technology  
Medical Careers  
Psychology  
Public Speaking  
Sociology  
Team Sports

# Human Services Pathway [\(Return to "Contents"\)](#)

Careers in this path are related to economic, political, and social systems. These include education, government, law and law enforcement, leisure and recreation, military, religion, child care, social services, and personal services.

Character Traits: Are you friendly, open, understanding, and cooperative? Do you like to work with people to solve problems? Is it important to you to do something that makes things better for other people? Do you like to help friends with family problems? Do you like reading, storytelling, traveling, or tutoring young children?

## **Associates Degrees**

Early Childhood Education  
Legal Studies  
Pre-Criminal Justice  
Pre-Law  
Pre-Teaching Elementary/Secondary  
Restaurant and Food Industry Management

## **Bachelor's Degrees**

Allied Health Secondary Education  
Applied Speech Communication  
Biology Secondary Education  
Business Education  
Communication  
Criminal Justice  
Elementary Education  
English Secondary Education  
Golf Management, Professional  
History  
Hotel Management  
Mathematics Secondary Education  
Psychology  
Public Administration  
Recreation Leadership and Management  
Resort Management  
Social Studies Secondary Education  
Social Work  
Sociology  
Technical Education  
Tennis Management, Professional  
Training in Business and Industry  
Wage Earning Home Economics Education

## **Recommended Electives**

Child Care  
Cosmetology  
Dental Careers  
Design Studio I  
Educational Paradigms  
Graphic Communications  
Medical Careers  
Practical Law  
Psychology  
Sociology

## **Consortium Courses** [\(Return to "Contents"\)](#)

A high school's curriculum is fashioned to the particular needs of the students in a district; there are differences from high school to high school in the types of courses offered. In St. Clair Shores and the surrounding districts, these differences work to the population's advantage. The consortium can offer to students in each district, the unique courses of the other districts. In addition, we can combine students with the same educational needs in large enough groups to hold a class that, in individual districts, would be canceled.

The goal of consortium scheduling is to enable students to enroll in courses that fulfill their individual educational needs.

- It is a privilege for students to be enrolled in consortium classes
- It is vital that students and parents understand that the student must be flexible, responsible and be willing to make personal adjustments
- Schools operate on different daily schedules that may necessitate early arrival or late dismissal
- Additionally, students may miss a portion of their regularly scheduled classes, and it is the student's responsibility to make up any missed work
- Transportation will be provided to consortium classes
- Students are required to follow the attendance policy and code of conduct of the school in which the consortium class is taken
- Students will sign an agreement stating that they understand the operating policy and procedures for consortium classes.

## **Hybrid Course- General Description**

Lake Shore High School believes firmly that learning can take place anytime, anywhere and should not be restricted to a designated time or place. We also have an understanding that today's students thrive in an environment that allows for a high level of efficiency, self-direction, and prioritization. This has led to the development of Hybrid or Blended-learning courses. Hybrid or Blended-learning courses require a student to complete a portion of their coursework on-line. This can be done anytime, anywhere. Seat-time requirements will vary from week to week depending on instructor requirements and student performance. A student in a Hybrid course may attend class everyday during that respective hour. They will, however, have the option to utilize that time for an activity or responsibility of their own choosing, assuming they are meeting the requirements for seat-time being waived.

## **Early Graduation Requirements**

Early graduation is permitted only upon the recommendation of a counselor and approval by the principal. Students must complete an "Early Graduation Application" and submit it to their counselor at least one trimester in advance. Students may qualify for early graduation upon successful completion of all graduation requirements.

## Dual Enrollment [\(Return to "Contents"\)](#)

Lake Shore High School recognizes the value to students and to the District for students to participate in programs offered by accredited colleges and universities in Michigan.

Eligible students are those who meet the criteria to enroll in approved post secondary programs (that are not offered by the District) while in attendance in the District. Students will be eligible to receive secondary credit for completing any of these programs providing they meet the established requirements.

Tuition and fees shall be made in accordance with the formulas established in the State School-Aid Act.

Guidelines:

- College course cannot be one of hobby, recreation, religion or physical education
- Summer courses do not qualify
- When a student has met all graduation requirements, he/she is no longer eligible for dual enrollment
- Prior to enrollment, a student must have taken the Michigan Merit Exam, PSAT, PLAN, or ACT and earn a qualifying score on the exam

Steps:

1. Check with LSHS Counselor to establish eligibility.
2. Complete the "Early Admission Application Form" available through and signed by LSHS Counselor.
3. Student delivers signed form to the college's Enrollment Services Office for registration. Enrollment Services will create a student account which enables student to complete any necessary placement exams. It is highly recommended that a counselor from the college guide course selection.
4. Return a copy of the completed form to the LSHS Counseling Office for preliminary district course approval.
5. Once approved by Enrollment Services and LSHS Counseling Office, student may register for approved course.
6. Once enrolled, student must provide evidence of college schedule to LSHS Counselor.
7. It is imperative that the student complete and submit the "Dual Enrollment Approval Form" to LSHS Counselor.
8. Once processed by district, LSHS Counselor will send student with form to Enrollment Services to finalize Dual Enrollment payment.

# Scheduling and Course Selection [\(Return to "Contents"\)](#)

## 9<sup>th</sup> Grade Course Offerings

### Career & Technical Ed

- Intro to Drafting/CAD (1 term)
- Intro to Building Renovation (1 term)
- Girls Intro to Renovation (1 term)

### Fine and Performing Arts

- Intro to Visual Art (1 term)
- Draw/Design (1 term)  
Pre-requisite: Intro to Visual Art
- Painting (1 term)  
Pre-requisite: Intro to Visual Art
- Intro to Music (1 term)
- Guitar (1 term)
- Intro to Drama (1 term)
- Intro to Media Productions (1 term)
- Jazz (2 terms)  
Pre-requisite: Audition
- Symphonic Band (3 terms)
- Concert Choir (3 terms)  
Pre-requisite: Audition
- Treble Choir (3 terms)
- Web Design (1 term)
- Advanced Web Design (1 term)  
Pre-requisite: Web Design

### Journalism/Writing

- Writing for Publications (1 term)
- Writing for Publications II (1 term)  
Pre-requisite: Writing for Publications

### Non-Departmental Offerings

- Fall Principles of Leadership (1 term)

### Physical Education/Health

- Fitness and Conditioning (1 term)
- Human Health (1 term)
- Swimming (1 term)

### Technology

- Microsoft IT Academy (1 term)
- Web Design (1 term)
- Advanced Web Design (1 term)  
Pre-requisite: Web Design

### World Language

- German I A and German I B  
(2 terms)
- Mandarin I A and B (2 terms)
- Mandarin Chinese 2 A and B  
(2 terms)  
Pre-requisite: KMS Mandarin Chinese
- Spanish I A and B (2 terms)
- Spanish II A and B (2 terms)  
Pre-requisite: KMS placement

# Graduation Requirements [\(Return to "Contents"\)](#)

Specific Type of Credit	Required Credit by Graduation
English	4.5
Math	5
Science	3
Social Sciences	3
World Language	2
Physical Education	1
Health	0.5
Visual, Performing, Applied Arts	1
Technology	1
Electives	6.5
Total Credits	27.5
Maximum Credit Earned	30
Minimum Credit Required	27.5



## **Scheduling and Course Selection** [\(Return to "Contents"\)](#)

The State of Michigan recently released The Michigan Merit Curriculum, which includes new graduation requirements. The Michigan Merit Curriculum graduation requirements are designed to provide our students with the skills necessary to compete in the global marketplace. Choosing course work in high school that prepares a student for a career, technical experience, or college after high school will make the time spent here at Lake Shore High School applicable to their future.

Choosing the courses that your son or daughter completes in high school is an activity in which all parents are encouraged to participate. The courses that your son or daughter complete at Lake Shore High School will allow them to compete for career opportunities, earn scholarships, gain entrance into college and prepare them to become responsible citizens.

During our scheduling process this year, we will assist our students in:

- Choosing courses that align with their career pathway to ensure that their education is relevant to post-high school aspirations
- Selecting courses to ensure students will meet state and district graduation requirements

We will work with your son or daughter to:

- Provide rigorous course work to challenge and prepare your son or daughter to compete in a global marketplace
- Prepare them for post-secondary, technical, collegiate, or career aspirations

Students will receive their registration materials in January. Students should bring their scheduling packets home and discuss with a parent or guardian their desired course of study. Students will return their registration materials in school and work with a counselor to enter their schedule requests.

The members of our scheduling team are excited to work with your son or daughter during this process. If you or your son or daughter would like a private scheduling meeting, please contact the counseling department. If your son or daughter is absent on a scheduling day, they must contact the guidance secretary to schedule a makeup appointment.

The full text of our Student Services and Academic Achievement Guide can be found on line at [www.lakeshoreschools.org](http://www.lakeshoreschools.org) and is available in the Counseling Office.

## **Schedule Changes**

Each year, a new master schedule is created to accommodate students' course requests made during registration in February and March. Faculty members are employed, textbooks are purchased, and rooms are assigned on the basis of these requests.

Once the trimester has begun, schedule change requests must be made by completing a Schedule Request Change Form. These requests will be honored for exceptional circumstances, as space is available. Students who sign up for AP and/or CTE courses are enrolled for the entire year and may not withdraw from the course.

## **Components of Successful Scheduling** [\(Return to "Contents"\)](#)

### **The Role of Parents/Guardians and Students in Scheduling**

It is the responsibility of the student and parent, with the guidance and advice of the school faculty and counselors, to review and determine the future plans and aspirations of the student. Once his/her program is designed, it is the responsibility of the student to carry it through to completion. Upon consultation with his/her teachers and counselor, the student and his/her parents may request to change this program as achievements of goals indicate it to be necessary.

### **The Role of Lake Shore High School in Scheduling**

The responsibility of Lake Shore High School is to provide an appropriate program to meet the State of Michigan graduation requirements and individual student needs by preparing them for their role in an ever-changing society.

### **The Role of Counselors in Scheduling**

It is the responsibility of the counselor to help the student plan a program that satisfies the graduation requirements of the school and to help discern that the major emphasis on the student's program is one which reflects his/her future plans, interests and aptitudes. It is also the responsibility of the counselor to review with each student the progress he/she is making toward his/her educational and vocational goals and update the student's Educational Development Plan. Spending time discussing next year's schedule and long-range goals with your counselor is important.

### **The Role of Teachers in Scheduling**

The teacher, whose experience with the student enables him/her to identify the student's abilities and achievements, should advise students, the counselor and the parents. The teacher's opinions, based on classroom experience, data and assessment, will further help the student to make his/her program realistic and workable.

## **Proposed Scheduling Timeline** [\(Return to "Contents"\)](#)

### **December**

Students will update their educational development plans in career cruising.

### **January-February**

Students will receive their registration materials in the beginning of January. Student registration appointments will take place from mid January to mid February.

### **March-April**

Electronic course requests will be tabulated to determine course offering and staffing for the upcoming school year. Students will receive their registration confirmation; a parent or guardian must sign the form.

### **August**

Students will attend a registration day. During this time, students may purchase their yearbooks, have their school pictures taken, and receive their locker and locker combination for the school year. At this time, students may also receive their schedule.

## Testing Out [\(Return to "Contents"\)](#)

Testing Out of a course occurs when a student is administered the final exam of a required course and achieves a score of at least 77%. Any high school student who wishes to test out of a required (non-elective) course may do so in June of each year. Credit (CR) will be granted if a student earns a score of at least 77%. A "CR" will appear on the student's transcript. This means that the required credit was achieved but will not factor into the student's GPA.

If a student is recognized by a teacher as advanced or proficient in a core subject, a teacher may decide to administer the Test Out Exam to that student to determine proficiency within the first 5 days of a trimester. This would allow the student to earn credit (CR) for the requirement and be appropriately placed academically.

Test-out opportunities will be advertised in May. Applications to test out are available in the counseling office and are due June 1st. Test-outs will be completed by the end of the school year. Students should see their counselor for more information regarding testing out.

# Trimester Guide [\(Return to "Contents"\)](#)

	<b>Trimester One (Sept-Dec)</b>	<b>Trimester Two (Dec-Mar)</b>	<b>Trimester Three (March-June)</b>
<b>1<sup>st</sup> Hour</b>			
<b>2<sup>nd</sup> Hour</b>			
<b>3<sup>rd</sup> Hour</b>			
<b>4<sup>th</sup> Hour</b>			
<b>5<sup>th</sup> Hour</b>			

# NCAA ELIGIBILITY - QUICK REFERENCE SHEETS [\(Return to "Contents"\)](#)

## **Core Courses** <http://www.ncaa.org/student-athletes/play-division-i-sports>

NCAA Division I requires 16 Core Courses. See the Chart below (“Division I Core Courses”) for a specific breakdown of this 16 core course requirement.

NCAA Division II currently requires 14 Core Courses. See the Chart below (“Division II Core Courses”) for a specific breakdown of this 14 core course requirement.

## **Test Scores** <http://www.ncaa.org/student-athletes/play-division-i-sports>

Division I uses a sliding scale to match test scores and core grade point averages. The sliding scale for those requirements is forthcoming on this sheet.

Division II requires a minimum SAT score of 820 or an ACT sum score of 68.

The SAT score used for NCAA purposes includes only the critical reading and math sections. The writing section of the SAT is not used.

The ACT score used for NCAA purposes is a sum of the following four sub scores: English, Mathematics, Reading and Science.

When you register for the SAT or ACT, use the NCAA Eligibility Center code of 9999 to ensure all SAT and ACT scores are reported to the NCAA Eligibility Center directly from the testing agency. Test scores that appear on transcripts will not be used.

## **Grade Point Average** <http://www.ncaa.org/student-athletes/play-division-i-sports>

Be sure to look at your high school’s List of NCAA Courses on the NCAA Eligibility Center’s website ([www.eligibilitycenter.org](http://www.eligibilitycenter.org)). Use the list as a guide. Only courses that appear on your school’s list of NCAA Courses will be used in the calculation of the core grade point average. Division I core grade point requirements are listed on the sliding scale on this sheet. Remember, the NCAA grade point average is calculated using NCAA core courses only.

**DIVISION I: 16 CORE COURSES**

**Cumulative GPA: 2.3**

English	4 years
Mathematics	3 years (Algebra I or higher)
Science (Natural/Physical)	2 years (1 year of lab if offered by high school)
Additional English/Math/Science	1 year
Social Science	2 years

Additional Courses of following:

Courses listed above, Foreign Language or

Comparative Religion or Philosophy 4 years

**For NCAA Test Score Requirements:** <http://www.ncaa.org/student-athletes/play-division-i-sports>

**DIVISION II: 16 CORE COURSES (Class of 2018/beyond) Cumulative GPA: 2.2**

English	3years
Mathematics	2 years (Algebra I or higher)
Science (Natural/Physical)	2 years (1 year of lab if offered by high school)
Additional English/Math/Science	3 years
Social Science	2 years

Additional Courses of following:

Courses listed above, Foreign Language or

Comparative Religion or Philosophy 4 years

**For NCAA Test Score Requirements:** <http://www.ncaa.org/student-athletes/play-division-i-sports>

**DIVISION II: 16 CORE COURSES (Class of 2017)**

**Cumulative GPA: 2.0**

English	3 years
Mathematics	2 years (Algebra I or higher)
Science (Natural/Physical)	2 years (1 year of lab if offered by high school)
Additional English/Math/Science	3 years
Social Science	2 years

Additional Courses of following:

Courses listed above, Foreign Language or

Comparative Religion or Philosophy 4 years

**For NCAA Test Score Requirements:** <http://www.ncaa.org/student-athletes/play-division-i-sports>

# Academic Offering Guide - [Click on the course name to read a description of the class](#)

[\(Return to "Contents"\)](#)

---

## Table of Contents

Table of Contents .....	23
Business Department .....	29
Accounting I.....	29
Accounting II .....	29
Advanced Web Design.....	29
Business Law .....	29
Career & Technology Foundations .....	29
Career Field Experience.....	30
College Planning Course.....	30
Digital Design (Formerly known as Computer Technology II) .....	30
Financial Management.....	30
Introduction to Business Technology.....	30
Introduction to Marketing .....	31
Introduction to Web Design.....	31
Microsoft IT Academy (Formerly known as Computer Technology) .....	31
Personal Finance .....	31
Career and Technical Education .....	32
On Campus—Career and Technical Education .....	32
Architecture I - Design Studio I.....	32
Architecture II - Design Studio II .....	32
Building Renovation .....	32
Dental Careers I .....	33
Dental Careers II.....	33
Girls Introduction to Building Renovation .....	33
Health Science.....	33
Health Science II.....	34
Interior Design I - Design Studio I.....	34
Interior Design II - Design Studio II .....	34
Introduction to Architectural Design .....	34
Introduction to Building Renovation .....	35

Introduction to Drafting/CAD Design .....	35
Marketing and Sales.....	35
Mechanical Engineering - Design Studio I.....	35
Mechanical Engineering - Design Studio II.....	36
**Medical I and II:Course has new title “Health Science” and “Health Science II”- Scroll to pages 32 and 33 of Coursebook .....	36
Off Campus—Career and Technical Education.....	37
Advanced Machine Trades – ROSEVILLE.....	37
Auto Collision & Refinishing – PANKOW.....	37
Automotive Tech I – SOUTH LAKE.....	37
Automotive Tech II - SOUTH LAKE.....	37
Building Trades I – ROSEVILLE.....	38
Building Trades II - ROSEVILLE.....	38
Cosmetology I –WARREN WOODS.....	38
Cosmetology II – WARREN WOODS.....	38
Horticulture Science – PANKOW.....	39
Hospitality/Culinary Arts I- ROSEVILLE.....	39
Hospitality/Culinary Arts II- ROSEVILLE.....	39
Law Enforcement I- EAST DETROIT.....	39
Law Enforcement II- EAST DETROIT.....	39
Network Administration/Computer Service Technology-PANKOW-.....	40
Pre-Vocational Building Trades-ROSEVILLE.....	40
Pre-Vocational Machine Trades- ROSEVILLE.....	40
Pre-Vocational Woodworking – ROSEVILLE.....	40
PHP Web Programming –PANKOW-.....	41
Programming (Visual Basic.NET) –PANKOW.....	41
Programming for XBOX360 –PANKOW.....	41
Strategies in Sports, Entertainment & Marketing – PANKOW-.....	42
Teacher Cadet –PANKOW-.....	42
Visual Imaging Technology –PANKOW-.....	42
Visual, Performing, and Applied Arts Department - .....	43
ART.....	43
Advanced Placement (AP) Studio Art Portfolio.....	43
Advanced Visual Art.....	43
Drawing/Design –.....	43
Introduction to Drama.....	43
Introduction to Visual Art.....	44



Painting .....	44
DESIGN (TECHNOLOGY) .....	44
Introduction to Web Design .....	44
Advanced Web Design.....	44
INSTRUMENTAL MUSIC .....	45
Guitar .....	45
Introduction to Music.....	45
Jazz Ensemble .....	45
Symphonic Band – .....	45
Wind Ensemble .....	45
VOCAL MUSIC .....	46
Concert Choir .....	46
Fusion.....	46
Treble Choir .....	46
Women’s Chamber Choir .....	46
MEDIA PRODUCTIONS (FORMERLY TELEVISION BROADCASTING).....	47
Introduction to Media Productions .....	47
Media Productions I.....	47
Media Productions II.....	47
English Language Arts Department.....	48
Advanced Placement (AP) English Language and Composition.....	48
Advanced Placement (AP) English Literature and Composition.....	48
Creative Writing –.....	48
Educational Paradigms.....	49
Literature and Rhetoric: .....	49
American Literature .....	49
British Literature .....	49
Modern Fiction & Literature.....	50
Contemporary Topics & Memoirs - .....	50
Film and Literature.....	50
Film in our World .....	50
Greek Mythology .....	50
Mass Media.....	51
Public Speaking –.....	51
Shakespeare –.....	51

Short Story .....	51
Writing for Publications.....	51
Yearbook.....	52
Mathematics Department .....	53
Algebra I A/B/C.....	53
Algebra I Support –.....	53
Algebra II A/B/C.....	53
Algebra II Support – .....	53
Advanced Placement (AP) Calculus A/B/C.....	53
Calculus –.....	53
Data Analysis (Formerly Known as Data Analysis A) – .....	54
Discrete Mathematics (Formerly Known as Data Analysis B).....	54
Financial Algebra A –.....	54
Financial Algebra B .....	54
Geometry A/B/C – .....	54
Geometry Support –.....	54
Pre Calculus A/B –.....	55
Probability and Statistics.....	55
Non-Departmental.....	56
Educational Paradigms.....	56
Geographic Information Systems.....	56
Microsoft IT Academy.....	56
P.A.S.S. 9 or 10 (Personalized Academic Support Services) .....	56
Fall .....	56
Scholastic Assess Test Prep (SAT Prep).....	57
Senior Leadership .....	57
Shorian Help Desk .....	57
Spring Principles of Leadership.....	57
Physical Education.....	58
Aerobics .....	58
Fitness/Conditioning .....	58
Fitness/Conditioning II .....	58
Human Health .....	58
Life Guarding.....	59
Life Long Sports .....	59
Physical Education.....	59

Swimming .....	59
Team Sports .....	59
Science Department .....	60
Advanced Placement (AP) Biology .....	60
Advanced Chemistry .....	60
Advanced Physics .....	61
Anatomy and Physiology .....	61
Astronomy .....	61
Backyard Ecosystems .....	61
Biology I .....	61
Chemistry - .....	61
Earth Science .....	62
Environmental Science .....	62
Forensic Science .....	62
Geology .....	62
Honors Anatomy and Physiology - South Lake High School .....	62
Introduction to Chemistry .....	63
Introduction to Physics .....	63
Oceans and Atmosphere .....	63
Physics .....	63
Zoology .....	63
Social Sciences Department .....	64
Advanced Placement Economics .....	64
Advanced Placement Government .....	64
Advanced Placement Psychology .....	64
Advanced Placement United States History .....	65
American Civil War .....	65
American History I .....	65
American History II .....	65
Big History Project .....	66
Contemporary World Issues .....	66
Economics .....	66
Government .....	66
Practical Law .....	66
Psychology .....	67
Sociology .....	67

World History I.....	67
World History II.....	67
Department of World Languages.....	68
German I.....	68
German II.....	68
German III.....	68
German IV.....	68
Mandarin Chinese I.....	69
Mandarin Chinese II.....	69
Mandarin Chinese III.....	69
Mandarin Chinese IV.....	69
Mandarin Chinese V.....	69
Spanish I.....	70
Spanish II.....	70
Spanish III.....	70
Spanish IV.....	70

## **Business Department**

Academic Offerings - [Click here to return to Academic Offering Table of Contents](#)

### **Accounting I – Grades: 10-12 Course Number: 601A 1 Term: 0.5 Credit**

Course content will include accounting careers, starting a proprietorship, analyzing the accounting cycle, analyzing business transactions, journaling transactions, posting to ledgers, preparing financial statements, adjusting and closing entries, payroll accounting, checking and credit accounting, performing daily accounting procedures. This course is designed for students interested in working in business or owning a business.

**This course will meet 0.5 credit of the general elective requirement OR 0.5 Math-Related credit for SENIORS ONLY.**

### **Accounting II – Grades: 10-12 Course Number: 601X 1 Term: 0.5 Credit**

**Pre-Requisite:** Successful completion of Accounting I. **Recommendation:** C or better in Accounting I and C or better in Computer Technology Course content will include payroll records, inventory systems, depreciation, computerized accounting practices, revenues and expenses, posting to ledgers, preparing financial statements, personal income taxes, budget planning, and accounting careers. Students will expand on and enhance the fundamentals learned in Accounting I. Articulation agreement aligned with Baker College and Davenport University (see the instructor or your counselor for potential college credit information). **This course will meet 0.5 credit of the general elective requirement OR 0.5 Math-Related credit for SENIORS ONLY.**

### **Advanced Web Design – Grades: 11-12 Course Number: 653B 1Term: 0.5 Credit**

**Pre-Requisite:** Successful completion of Introduction to Web Design (see description on page 30). **Recommendation:** Students should have knowledge of Microsoft Office applications and Internet research skills. Advanced Web Design will include a more extensive exploration in this discipline. Students will have the opportunity to create web presence for community businesses or participate in a fall technology contest where money is awarded. In addition to using HTML, students will explore CSS and become a proficient user of Adobe Photoshop Elements. Advanced Web Design can be taken for repeat credit with each level building off the previous course. **This course will meet 0.5 credit of the Technology elective requirement or 0.5 of the Visual/Performing Arts elective requirement.**

### **Business Law – Grades: 11-12 Course Number: 602X 1 Term: 0.5 Credit**

Course content will include criminal law, civil law, business law, court systems, torts, laws for families, laws for minors, laws for consumers, crimes, and appellate courts. A major emphasis of this course is to educate students to resolve conflict and to avoid the necessity of the judicial court system. **This course will meet 0.5 credit of the Technology elective requirement.**

### **Career & Technology Foundations - Grades 9-12 Course Number: 651X 1Term: 0.5 Credit** ([Click here to return to 9th Grade Course Offerings](#))

This course will count as an online experience. Students will build a foundation for employment in the global marketplace. Using computers, the focus will be to build employability skills-problem solving, critical thinking, decision-making, and computer literacy. Students will also work at developing a positive work ethic and personal management techniques. After exploring several career pathways, students will design a four-year education plan. Study skills, test taking strategies, and report/letter writing will also be developed in this class. Students will begin to build a resume and portfolio of their high school accomplishments. **This course will meet 0.5 credit of the Technology requirement.**

**Academic Offerings - [Click here to return to Academic Offering Table of Contents](#)**

**Career Field Experience - Grade: 12 Course Number: 608X 1 Term: 0.5 credit**

**Pre-requisite:** 2.5 G.P.A. minimum, student may not have low attendance or record of consistent discipline issues. This is a one-trimester course designed to provide students with an opportunity to pursue career goals as they experience authentic occupational situations. This program is designed to immerse students into community experiences, to the benefit of both. Students practice management skills as they balance the usual academic course load, employment, and the experiential Career Field Experience course. Emphasis is placed on increasing employability skills as students prepare resumes and portfolios, participate in job interviews, and apply their academic knowledge to the workplace. When interacting with fellow employees, customers/community members, students are developing “soft” skills such as: strengthening work ethic, maintaining a positive attitude, communicating effectively, managing time appropriately, working as team members, solving problems, building self-confidence, and demonstrating flexibility. **The class will meet 0.5 credit of the general elective requirement.**

**College Planning Course - Grade: 12 Course Number: 222X 1 Term: 0.5 credit**

This is a one-trimester course designed to provide students with an opportunity to spend time planning for and applying to college. This program is designed to immerse students into pre-college application planning, the actual college application process (including online applications, securing letters of recommendation, and writing college essays), as well as study of and preparing for financial aid applications. **The class will meet 0.5 credit of the general elective requirement.**

**Digital Design (Formerly known as Computer Technology II) – Grades: 9-12 Course Number: 656X 1 Term: 0.5 Credit**

**Recommendation:** Successful completion of Microsoft IT Academy. Course Content will include: This course is designed for any student wanting hands-on computer experience for work, school or business applications. Students will learn and apply fundamentals of various Adobe software applications (such as Illustrator and Photoshop) and focus on graphic design principles, drawing and graphic creation, design layouts and image editing. **This course will meet 0.5 credit of the Technology elective requirement.**

**Financial Management – Grade: 11-12 Course Number: 612X 1 Term: 0.5 credit**

This course will help students develop necessary skills to succeed beyond high school. They will study personal money management (budgeting, saving, investing, utilizing credit, purchasing an automobile, filing and understanding taxes, obtaining housing, financial aid and managing risk. Students will create a resume and cover letter and hone interviewing skills. All students will either (1) create a Career Portfolio and take an exit interview or (2) complete a senior project. During this course, students may job shadow or experience an externship, co-op or online component. **Recommendation: It is highly recommended that before graduation, all LSHS students take both Financial Management as well as Personal Finance to gain this vital financial knowledge before adulthood. This class will meet 0.5 credit of the general elective requirement.**

**Introduction to Business Technology – Grades: 10-12 Course Number: 606X 1 Term: 0.5 Credit**

**Pre-Requisite:** Successful completion of Career and Technology Foundations. Course content will include: Exploration of Microsoft Office concepts, office communication skills, office procedures, letters/memos/reports, and workplace ethic. **This course will meet 0.5 credit of the Technology elective requirement.**

**Academic Offerings** - [Click here to return to Academic Offering Table of Contents](#)

**Introduction to Marketing - Grades: 10-12 Course Number: 607X 1 Term: 0.5 Credit**

Course content will include marketing functions, careers in marketing, market segmentation, economics, business ownership, international trade, sales, promotional mix, product placement, product features and benefits, and business ethics/social responsibility. Students planning to take Marketing and Sales (Career and Technology Education course) are encouraged to enroll in this class.

**This course will meet 0.5 credit of general elective requirement.**

**Introduction to Web Design – Grades: 9-12 Course Number: 653A 1 Term: 0.5 Credit**

**Recommendation:** Students should have knowledge of Microsoft Office applications and Internet research skills.

Web Design is a hands-on, project-oriented class intended for self-directed students. Students will develop real-world technology skills while engaging in problem solving and higher-level thinking. In this course, students will gain an understanding of web design concepts and techniques that are essential to planning, creating, testing, publishing, and maintaining web sites. Students will learn and apply the essentials of web site layout, graphics, color, and multimedia, while demonstrating the maintenance and continuous improvement to a Web presentation. Topics will include citations, E-commerce, research, creating your own web page, evaluating web pages, Netiquette, creating, resizing and editing graphics, HTML basics and multimedia creations. **This course will meet 0.5 credit of the Technology elective requirement or 0.5 of the Visual/Performing Arts elective requirement.**

**Microsoft IT Academy (Formerly known as Computer Technology) – Grades: 9-12 Course Number: 652X 1 Term: 0.5 Credit** [\(Click here to return to 9th Grade Course Offerings\)](#)

Microsoft has partnered with the state of Michigan to help students develop technology skills through the Microsoft IT Academy program and earn industry recognized certifications that prepare them for careers and college. Students will build foundational knowledge and IT skills leading to industry recognized certifications, including Microsoft Technology Associate (MTA) certification. The MTA certification is recommended as a foundation for higher technology certifications and provides students with the capability to perform entry level IT jobs. **This course will meet 0.5 credit of the technology elective requirement.**

**Personal Finance – Grades: 11-12 Course Number: 611X 1 Term: 0.5 Credit**

**Recommendation:** Completion of a business course

Course content will include: Financial aspects of career planning, money management strategies, consumer topics, banking, retirement planning, household financial management, investing fundamentals, stocks/bonds/mutual funds, real estate taxes, and home, auto, and life insurance management. **Recommendation: It is highly recommended that before graduation, all LSHS students take both Financial Management as well as Personal Finance to gain this vital financial knowledge before adulthood. This course will meet 0.5 credit of the Technology requirement OR 0.5 senior-year Math-Related requirement.**

## Career and Technical Education

Academic Offerings - [Click here to return to Academic Offering Table of Contents](#)

### On Campus—Career and Technical Education

#### **Architecture I - Design Studio I – Grades: 11 and 12 Course Number: 716 A/B/C 3 Terms: 1.5 Credits**

**Pre-Requisite:** Intro to Drafting/CAD Design, Engineering Technology and/or Intro to Architectural Design

Topics/Elements: Floor plans, elevations, section drawings, roof plans, site plans, 3D model construction, landscaping plans, and drawing revision. Design Studio (Architecture) is designed for someone pursuing a career in architectural design, civil engineering, structural engineering and landscape design. Students will learn how to create presentation drawings and construct 3D models through various projects, including the winter village and haunted house project. Students will be introduced to landscape design, commercial architecture and Architectural AutoCAD software.

**This course will meet 1.5 credits of the technology requirement.**

#### **Architecture II - Design Studio II – Grade: 12 Course Number: 717 A/B/C 3 Terms: 1.5 Credits**

**Pre-Requisite:** Successful completion of CTE Design Studio I.

Topics/Elements: Advanced floor plans, elevations, HVAC planning, electrical plans, site plans, section drawings, details, door and window schedules, and presentation drawings. Students in all areas will have the opportunity to compete in local and/or national competitions and team building projects. Students will continue to develop their skills creating hand-drawn presentation drawings and constructing 3D houses out of balsa wood. Each student will take part in the winter village, haunted house and miniature house projects. This course will help prepare students for careers in the architectural design, civil engineering, structural engineering and landscape design fields. **This course will meet 1.5 credits of the technology requirement.**

#### **Building Renovation – Grades: 9-12 Course Number: 780 A/B/C 3 Terms 3.0 Credits (Two Class Periods per Term)**

**Prerequisite:** Successful completion of Girls Introduction to Building Renovation, Introduction to Building Renovation or **Teacher Recommendation**

The “Grand Daddy” of renovation classes. This is an ‘on-site’ as well as ‘off-site’ class. The students in this class learn the basics of many renovation skills in the classroom, and then apply those skills at an “off-site’ home. Students will gain real-world application involving the renovation of a St. Clair Shores neighborhood home that will be offered to the public for sale by the district. Classroom work includes: hand and power tool safety, how to handle and read a tape measure, learning about and/or using over 50 hand and power tools. Practical hands-on work could include: demolition, electrical, plumbing, drywall, painting and finishing, windows, doors, siding, brick pavers, flooring, finish carpentry and more. Learn how a house is put together and how to take it apart to repair/replace something, with the opportunity to practice. Whether you are going into construction or not, these skills will be useful for the rest of your life. A fun, safe and independent class setting is provided. This class is a two hour block for the entire year. Limited class size.

**This course will meet 3.0 credits of the general elective requirement.**



**Academic Offerings** - [Click here to return to Academic Offering Table of Contents](#)

**Dental Careers I – Grades: 11, 12 Course Number: 713A/B/C 3 Terms: 1.5 credits**

Course content will include: Terminology, dental anatomy, various dental procedures and instrumentation, instrument passing/retrieving, mixing dental materials, information technology applications, communications, leadership & teamwork, sterilization & universal precautions, safety, nutrition, career exploration, charting oral conditions and interpretation of charted information. Involvement in the student organization: Health Occupations Students of America (HOSA) is highly recommended. Course is approved for articulation credit at several MI colleges/universities for Medical Terminology. Students are required to purchase scrubs. **This course will meet 1.5 credits of the general electives requirement.**

**Dental Careers II – Grade: 12 Course Number: 714A/B/C 3 Terms: 1.5 credits**

**Pre-Requisite:** Successful completion of Dental Careers I

**Recommendation:** B or better in Dental Careers I

Exploring the 12 body systems, dental laboratory skills, assisting chair side to perform oral evacuation, instrument transfer, leadership & teamwork, computer applications, mentoring Dental I students and instructing children and special needs students in oral hygiene & nutrition. Active participation in HOSA is strongly recommended. While enrolled in this class, the student also qualifies to take Work Based Learning (Co Op) if they have transportation. Course is approved for articulation credit at several MI colleges/universities for Medical Terminology. Students are required to purchase scrubs and have appropriate immunizations for healthcare workers. The Dental Careers classes will prepare students to take the National Health Science Assessment and can lead to a certificate offered by the National Consortium for Health Science (NCHSE). **This course will meet 1.5 credits of the general electives requirement.**

**Girls Introduction to Building Renovation– Grades: 9-12 Course Number: 781X 1Term: 0.5 credit** [\(Click here to return to 9th Grade Course Offerings\)](#)

A new, one hour, one term hands-on class geared toward “the girls”. Ladies! Get the skills to repair, replace or maintain many items in one’s house. Change a light fixture, an electrical switch or outlet, even a garbage disposal. Learn to paint, repair a hole in drywall and change a faucet. Handle and read a tape measure like a pro. You will have the chance learn about and use over 30 hand and power tools. So many odd jobs will need to be done when you own a home, get those skills now in a fun and safe environment. There is NO Prerequisite! **This course will meet 1.5 credits of the general electives requirement.**

**Health Science (FORMERLY TITLED “MEDICAL I”) – Grades: 11 and 12 Course Number: 736A/B/C 3 Terms: 1.5 credits**

This course will examine how the health system works. It provides students an opportunity to explore many different health careers. Emphasis is placed on healthcare safety processes and ethical and legal responsibilities. Anatomy and physiology of the human structure and related diseases/disorders will be covered in depth. Students will develop basic technical skills required for all health career specialties. Instructional content will also focus on medical terminology which could lead to a college credit at several Michigan colleges/universities if passing with an 80% or better. Active participation in (HOSA) Health Occupations Students of America is highly recommended. Students are required to purchase the required uniform “scrubs”. **This course will meet 1.5 credits of science and/or general elective requirement.**

Academic Offerings - [Click here to return to Academic Offering Table of Contents](#)

**Health Science II (FORMERLY TITLED “MEDICAL II”)– Grade: 12 Course Number: 785 A/B/C 3 Terms: 1.5 credits**

Pre-requisite: Students must have earned a B or better in Health Science I, exhibit good attendance habits and have no record of poor discipline issues. Course content focuses on employability and career development, health maintenance practices, healthcare information technology applications, and technical skill preparation. This course will build an understanding of communication, leadership and teamwork related to all aspects of the healthcare industry. Job shadowing is a vital component of the course as well as creating a career portfolio. Students are required to purchase the uniform “scrubs” as well as provide documentation of required immunizations and administration of a Tuberculosis (TB) skin test. Students are expected to be actively involved in (HOSA) Health Occupations Students of America and participate in leadership competitions. The course will prepare students to succeed when taking the National Health Science Assessment which can lead to a certificate offered by the National Consortium for Health Sciences (NCHSE). When enrolled in this course, students are qualified to participate in Co Op (Work-Based Learning) opportunities if transportation is available to them. **This course will meet 1.5 credits of science and/or general elective requirement.**

**Interior Design I - Design Studio I – Grades: 11 and 12 Course Number: 782 A/B/C 3 Terms: 1.5 credits**

**Recommendation:** Intro to Drafting/CAD Design and/or Intro to Architectural Design

Floor plans, elevations, roof plans, 3D model construction, elements of design, faux finishing, furniture and home styles, furniture refinishing, furniture design, portfolio building and wallpaper hanging. Design Studio (Interior Design) is designed for someone pursuing a career in interior design, office and party planning. Students will learn how to create professional presentation sketches and drawings and construct 3D models through various projects, including the winter village project, furniture refinishing and 3D interior room models. Students will be introduced to Architectural AutoCAD software and EZ-Home Decorator. **This course will meet 1.5 credits of the technology requirement.**

**Interior Design II - Design Studio II – Grade: 12 Course Number: 783 A/B/C 3 Terms: 1.5 credits**

**Pre-Requisite:** Successful completion of CTE Design Studio I.

3D model construction, client consulting, cost estimating, presentation layouts, portfolio building, presentation skills and hands-on design experience. Students in all areas will have the opportunity to compete in local and/or national competitions and team building projects. Students will redesign and create presentation boards complete with color, fabric swatches, sketches and rendering for a client’s room. After presenting, they will create the room in reality. Students will also take part in the miniature house group project and the haunted house. This class will help prepare students for careers in the interior design field. **This course will meet 1.5 credits of the technology requirement.**

**Introduction to Architectural Design – Grades: 10-12 Course Number: 730X 1Term: 0.5 credit**

Course content will include freehand sketching, lettering techniques, technical drawing, blue-print reading, basic floor plans, elevation drawings, basic room layout, and history of home styles, architectural standards, and architectural careers. Students will learn many architectural skills through various projects including a 3-D home model. Students will develop skills on the drafting board and on AutoCAD. Intro to architectural design not only prepares students for the drafting field but also teaches real life skills such as job searching, resume and portfolio building. This class is strongly recommended for students interested in pursuing a career in architectural design, interior design, or civil engineering or taking Design Studio I & II.

**This course will meet 0.5 credit of general elective requirement.**

**Academic Offerings - [Click here to return to Academic Offering Table of Contents](#)**

**Introduction to Building Renovation – Grades: 9-12 Course Number: 780X 1 Term: 0.5 credit** *(Click here to return to 9th Grade Course Offerings)*

This is a one hour, one Term, hands-on Introduction class covering the many areas of construction and renovation. Beginning with hand and power tool safety and how to handle and read a tape measure. Then you will learn about and use over 30 hand and power tools. Practical hands-on work could include: electrical, hammering practice and rough framing, plumbing, drywall installation and repair, painting and finishing, project building, finish carpentry and more. Learn how your house is put together and how to take it apart to repair or replace something. Whether you are going into construction or not, these skills will be useful for the rest of your life. Get those skills now and have fun at the same time. **This course will meet 0.5 credit of general elective requirement.**

**Introduction to Drafting/CAD Design – Grades: 9-12 Course Number: 732X 1 Term: 0.5 credit** *(Click here to return to 9th Grade Course Offerings)*

Course content will include freehand sketching, lettering techniques, basic technical drawing, blue-print reading, geometric construction, dimensioning, basic orthographic projection, computer aided drafting/design (CAD). Students will develop skills on the drafting board and on AutoCAD. Introduction to Engineering Design not only prepares students for the drafting field but also teaches them life skills such as job searching, resume and portfolio building. This class is strongly recommended for students interested in pursuing a career in the design and engineering fields or taking Design Studio I & II. **This course will meet 0.5 credit of general elective requirement.**

**Marketing and Sales – Grades: 11 and 12 Course Number: 734A/B/C 3 Terms: 1.5 credits**

**Recommendation:** Introduction to Marketing, Computer Technology

Course content will include marketing functions, careers in marketing, customer service, inventory control, visual merchandising and display, market segmentation, economics, business ownership, management structures, sales, promotional mix, distribution, advertising, packaging and labeling, market research, business financing, pricing strategies, product placement, product features and benefits, business ethics/social responsibility, creating a business plan, basic accounting principles, and advanced store operations. This course gives the student advanced training in marketing and sales through a hands-on experience operating the LSHS School Store. Articulation agreement aligned with Baker College (see instructor or your counselor for college credit information). **This course will count as 1.5 senior-year, math-related credit.**

**Mechanical Engineering - Design Studio I – Grades: 11 and 12 Course Number: 784 A/B/C 3 Terms: 1.5 credits**

**Recommendation:** Intro to Drafting/CAD Design, Engineering Technology and/or Intro to Architectural Design

Multi-views, auxiliary views, section-views, isometric drawings, micrometer and caliper reading, 3D solid modeling with CATIA.

Design Studio (Mechanical Engineering) is designed for someone pursuing a career in mechanical engineering, CNC programming, CAD Design and vehicle design.

Students will create presentation drawings and master the skills through various projects, including the roller coaster project, Hovercraft and RC car building.

Students will be introduced to CATIA and vehicle design. **This course will meet 1.5 credits of the technology requirement.**

Academic Offerings - [Click here to return to Academic Offering Table of Contents](#)

**Mechanical Engineering - Design Studio II – Grade: 12 Course Number: 786 A/B/C 3 Terms: 1.5 credits**

**Pre-requisite:** Successful completion of CTE Design Studio I.

Automotive history, body design styles, mechanics, descriptive geometry, body design layouts, presentation skills, presentation drawings, automotive marketing and finance, CNC programming and CAD/CAM. Students in all areas will have the opportunity to compete in local and/or national competitions and team building projects. Students study the three areas of the vehicle design industry; design, engineering and art studio work. Students will learn how an automobile/engine works through various projects including 3D engine model and the Build Your Dream Vehicle competition. Students will continue to use CATIA and prepare for careers in the automotive design fields. This program also has integrated the opportunity to attend ATAP 2310 CNC Mill G&M Programming & CNC Machining at Macomb Community College during class time (where students have an opportunity to earn up to 2 college credits). **This course will meet 1.5 credits of the technology requirement.**

**\*\*Medical I and II: Course has new title “Health Science” and “Health Science II”- Scroll to pages 32 and 33 of Coursebook**

**Off Campus—Career and Technical Education** - [Click here to return to Academic Offering Table of Contents](#)

**Advanced Machine Trades – ROSEVILLE – Grades: 11, 12 Course Number: 746 A/B/C 3Terms: 3.0 credits (Two Class Periods per Term)**

Advanced Machine Trades is a course in which the emphasis is placed on accuracy and planning machining operations. Students will be required to work to close tolerances, while learning more complex setups and machining operations on standard tool room machinery. The programming of computer controlled machines (CNC) and more complex AutoCAD (CAD) functions are included. Course A: The first semester covers shop safety, precision layout and machining operations: Included are complex setups and close tolerance machining. Project planning and the use of CAD are stressed. Course B: The second semester is a continuation of the first semester, emphasizing the use of computer-aided manufacturing (CAM). Complicated CNC milling and turning operations are introduced. **This course will meet 3.0 credits of general elective requirement.**

**Auto Collision & Refinishing – PANKOW- Grades: 11 and 12 Course Number: 901 A/B 2 SEMESTERS: 1.0 credit**

**Pre-Requisite:** Purchase a Collision & Refinishing Notebook. Students must wear safety glasses—first pair provided.

**Recommendation:** 2 years Math, English and Science

This approved NATEF / ASE / AYES (National Automotive Technicians Education Foundation/Automotive Service Excellence/Automotive Youth Education Systems) program teaches students the fundamentals of auto collision repair and refinishing. It also includes instruction on damage repair, welding, surface preparation and painting. Students will also have the opportunity to learn computer and hands-on estimating.

**This program is certified by the following organizations:** NATEF (National Automotive Technicians Education Foundation) Certified Program AYES (Automotive Youth Education System) Certified Program connected through the Detroit Automotive Dealers Association (D.A.D.A.). Externship eligible program. **This course will meet 1.5 credits of general elective requirement.**

**Automotive Tech I – SOUTH LAKE – Grades: 11 and 12 Course Number:702 A/B 2 SEMESTERS: 1.0 credit (Two Class Periods per Term)**

Course content will include theory of automobile operations and development, introduction of automobile maintenance repair in the eight areas of brakes, electrical, steering/suspension, engine performance, engine repair, automatic/manual transmission, alignment, heating & air conditioning. **This course will meet 1.5 credits of general elective requirement.**

**Automotive Tech II - SOUTH LAKE – Grade: 12 Course Number: 703 A/B 2 SEMESTERS: 1.0 credit (Two Class Periods per Term)**

**Pre-Requisite:** Successful completion of Automotive Mechanics I

**Recommendation:** C or better in Automotive Mechanics I

Course content will include brakes hydraulics, fuel systems, welding, and diagnostics. This course is a continuation of Automotive Mechanics I. The curriculum follows the standards set by the National Automotive Technicians Education Foundation. Students may take state licensing tests upon successful completion of this class. Articulation agreement aligned with Ferris State University and Macomb Community College (see the instructor or your counselor for college credit information). **This course will meet 1.5 credits of general elective requirement.**

Academic Offerings - [Click here to return to Academic Offering Table of Contents](#)

**Building Trades I – ROSEVILLE – Grades: 11and 12 Course Number: 705A/B/C 3Terms: 1.5 credits**

Course content will include masonry carpentry, electrical wiring, plumbing, dry walling, roofing, with on-the-job experience, students will learn all aspects of house construction from site development to rough carpentry. **This course will meet 1.5 credits of general elective requirement.**

**Building Trades II - ROSEVILLE – Grade: 12 Course Number: 706A/B/C 3 Terms: 1.5 credits**

**Pre-Requisite:** Successful completion of Building Trades I

**Recommendation:** C or better in Building Trades I

Course content will include installation of moldings, vents, doors, cabinets, trim, countertops, installation of laminate, installation of electrical and plumbing fixtures, installation of tile and carpet, building codes and inspections, finishing, painting, staining, obtaining occupancy permits, proper usage of electric, pneumatic, and hand tools. With on-the-job experience, students will learn the final aspects of house construction. **This course will meet 1.5 credits of general elective requirement.**

**Cosmetology I –WARREN WOODS -Grades: 11and 12 Course Number:744 A/B 2 SEMESTERS: 2.0 credits (Two Class Periods per Term)**

Course content will include hairstyling, manicures, and pedicures. This is the first year of a two-year (1500 hour) state certified program. The curriculum is set up by the Michigan State Licensing Board of Cosmetology and covers all areas of Cosmetology, theory and skill training. Upon completion of Cosmetology II, the student is eligible to take the State Cosmetology examination and may apply for licensing (student must be 17 years old). Students will be required to attend an additional fourteen (14) days before the school year begins and fourteen (14) days at the end of the school year. **This course will meet 2.0 credits of general elective requirement.**

**Cosmetology II – WARREN WOODS - Grade: 12 Course Number: 745 A/B 2 SEMESTERS: 2.0 credit (Two Class Periods per Term)**

**Pre-Requisite:** Successful completion of Cosmetology I

Course content will include hairstyling, manicures, and pedicures. This is the second year of a two-year (1500 hour) state certified program. The curriculum is set up by the Michigan State Licensing Board of Cosmetology and covers all areas of Cosmetology, theory and skill training. Upon completion of Cosmetology II the student is eligible to take the State Cosmetology examination and may apply for licensing (student must be 17 years old). Students will be required to attend an additional fourteen (14) days before the school year begins and fourteen (14) days at the end of the school year. **This course will meet 2.0 credits of general elective requirement.**

Academic Offerings - [Click here to return to Academic Offering Table of Contents](#)

**Horticulture Science – PANKOW- Grades: 10-12 Course Number: 960 A/B 2 SEMESTERS: 1.0 credit**

**Recommendation:** Algebra, Biology

Horticulture Science is a hands-on class that focuses on floral design, basic landscape design and greenhouse management. Students gain experience in floral design, (including corsages, basic arrangements, and holiday arrangements), greenhouse management, plant propagation, including tissue culture, hydroponics, nursery and landscape management, landscape design, and integrated pest managements. Students will have the opportunity to manage the class floral shop and retail greenhouse. Students can participate in the FFA, a student organization that promotes leadership and technical skills.

**This course will meet 1.0 credit of general elective requirement.**

**Hospitality/Culinary Arts I- ROSEVILLE-Grades: 11 and 12 Course Number: 722 A/B/C 3 Terms: 3.0 credits (Two Class Periods per Term)**

Course content will include hotel and motel guest services, travel/tourism, food service industry, food preparation, restaurant management

**This course will meet 3.0 credits of general elective requirement.**

**Hospitality/Culinary Arts II- ROSEVILLE-Grade: 12 Course Number: 723 A/B/C 3 Terms: 3.0 credits (Two Class Periods per Term)**

Course content will include hotel and motel guest services, travel/tourism, food service industry, food preparation, restaurant management

**This course will meet 3.0 credits of general elective requirement.**

**Law Enforcement I- EAST DETROIT-Grades: 11and 12 Course Number: 753 A/B 2 SEMESTERS 1.0 credit (Two Class Periods per Term)**

This course will help prepare students to perform the duties of police and public security officers, criminal investigator, federal marshal, police detective, evidence technician and other careers in this area. Students will learn basic skills such as patrol and investigative activities, traffic control, crowd control and public relations, witness interviewing, evidence collection and management, basic crime prevention methods, equipment operation and maintenance, report preparation, and other routine law enforcement responsibilities. Through field trips and internships, students will have the opportunity to witness how these duties are performed by actual law enforcement professionals. **This course will meet 2.0 credits of general elective requirement.**

**Law Enforcement II- EAST DETROIT-Grades: 11and 12 Course Number: 754 A/B 2 SEMESTERS 1.0 credit (Two Class Periods per Term)**

**Prerequisite: Successful Completion of Law Enforcement I**

This course will help prepare students to perform the duties of police and public security officers, criminal investigator, federal marshal, police detective, evidence technician and other careers in this area. Students will learn basic skills such as patrol and investigative activities, traffic control, crowd control and public relations, witness interviewing, evidence collection and management, basic crime prevention methods, equipment operation and maintenance, report preparation, and other routine law enforcement responsibilities. Through field trips and internships, students will have the opportunity to witness how these duties are performed by actual law enforcement professionals. **This course will meet 2.0 credits of general elective requirement.**

Academic Offerings - [Click here to return to Academic Offering Table of Contents](#)

**Network Administration/Computer Service Technology-PANKOW-Grades: 10-12 Course Number: 907 A/B 2 SEMESTERS 1.0 credit**

**Recommendation:** 2 years English, Math, Science

The Network Administration and Computer Service Technology course is designed for students who have an interest in computers and networking. Students taking this course will learn how PCs operate, as well as how to troubleshoot, repair, upgrade, and maintain PCs. Students will also learn basic computer networking skills including how networks work and how to properly connect and configure networks. Computer networking is a growing field with great opportunities for growth and advancement. Students completing both years of this two year course will have the skills necessary to attain an entry level position in the computing/IT field. Students will also be prepared to take industry recognized certification exams from CompTIA (A+, Network+). **This course will meet 1.0 credit of general elective requirement.**

**Pre-Vocational Building Trades-ROSEVILLE- Grades: 10-12 Course Number: 748 A/B/C 3 Terms: 1.5 credits**

The first semester introduces the basic fundamentals of elementary woodworking. Students will be instructed on safe use of hand tools as well as complex power machinery. The second semester introduces the student to many types of woodworking techniques used in residential construction. Students will develop these skills through various projects. This course will explore related careers and industries. **This course will meet 1.5 credits of general elective requirement.**

**Pre-Vocational Machine Trades- ROSEVILLE- Grades: 10-12 Course Number: 749 A/B/C3 Terms: 1.5 credits**

The first semester covers the importance of shop safety, the use of hand tools, the engine lathe, drill presses and bandsaws. Basic computer use and DOS commands are introduced. The second semester covers the milling machine, basic grinding and the use of precision measuring instruments. Computer numerically controlled machining (CNC) and AutoCAD (CAD) are introduced.

**This course will meet 1.5 credits of general elective requirement.**

**Pre-Vocational Woodworking – ROSEVILLE- Grades: 10-12 Course Number: 755A/B/C 3 Terms: 1.5 credits**

This course covers shop safety, tool safety, and machine safety. Students will begin building a mandatory project to become confident with the basic skills of woodworking. After completing the first project, the students may pick their next one from a recommended list.

This course will review critical parts of Course A. If a student has successfully completed Course A, they will begin to explore more advanced joinery and furniture building. This course will review critical parts of Course A. If a student has successfully completed Course A and/or B, they will continue to expand their skills in more advanced woodworking methods and projects. **This course will meet 1.5 credits of general elective requirement.**



Academic Offerings - [Click here to return to Academic Offering Table of Contents](#)

**PHP Web Programming –PANKOW- Grades: 11and 12 Course Number: 934 A/B 2 SEMESTERS 1.0 credit**

The internet is easily the most widely used communication medium in existence. Web pages and the information they contain have changed drastically since the beginning of the internet. Today most web pages have dynamic data that their visitors can interact with to get what they are looking for. Students will get experience designing, developing and testing PHP scripts like those used on most interactive web sites. This will include databases, message boards and extensible add-ons to websites similar to a Facebook app. This is a programming class, not a web design class. Completing this course will grant student hands-on experience to allow them to create their own php scripts to serve users the interactive data they want.

**This course will meet 1.0 credit of general elective requirement.**

**Programming (Visual Basic.NET) –PANKOW- Grades: 10-12 Course Number: 917 A/B 2 SEMESTERS 1.0 credit**

**Recommended courses:** Two years English, Math and Science. This course is designed to provide students with the fundamental understanding of detailed Visual Basic programming language. It will be covering logic, syntax, input/output layout, testing, database interaction, debugging and documentation with a heavy emphasis on problem solving. Students will learn how to interact with their customers or superiors, design interfaces for business applications and code simple games. Students will also learn how to utilize databases with their applications in order to create a viable, working program for their final project. Visual Basic is one of the most common languages used for simple games and business applications as well as for scripting, web development and MS-Office macros. Any student is welcome, whether they have previous programming experience or not. Programming will start with the basics and work our way up from there. **Externship eligible program. Available only at the Pankow Center. This course will meet 1.0 credit of general elective requirement.**

**Programming for XBOX360 –PANKOW- Grades: 10-12 Course Number: 931 A/B 2 SEMESTERS 1.0 credit**

**Recommended courses:** Algebra, Biology, and 2 years English. As technology evolves and video gaming becomes a more prevalent form of entertainment, more creative video game designers are becoming necessary in the workforce. This course is designed to provide students with the fundamental understanding of the Visual C# programming language. It will be covering logic, syntax, input/output layout, testing, database interaction, debugging and documentation with a heavy emphasis on problem solving. The bulk of the programming will be done with an emphasis on video game design, specifically for the Microsoft XBOX360 console system. Students will learn how to interact with their customers or superiors, design and test simple puzzle games to more complex adventure type games. This course will cover everything from design to coding and finally testing. Students will have the opportunity to upload their projects to XBOX Live Creators' Club, and if they are popular enough, to XBOX live Marketplace where they could be purchased and played by millions of XBOX users, earning the student national recognition. Any student is welcome, whether they have previous programming experience or not. Program will start with the basic and work their way up from there. **Externship eligible program. Available only at the Pankow Center. This course will meet 1.0 credit of general elective requirement.**

Academic Offerings - [Click here to return to Academic Offering Table of Contents](#)

**Strategies in Sports, Entertainment & Marketing – PANKOW-Grades: 10-12 Course Number: 686 A/B 2 SEMESTERS 1.0 credit**

This class is designed for students who are interested in careers in sports & entertainment marketing, marketing, management and business ownership. Students will learn the language of sports & entertainment and marketing as well as distribution and the importance of developing social skills for business jobs. The purpose of this course is to provide students with the fundamental principles and concepts identified with sports and entertainment marketing and to develop critical thinking and decision-making skills through the application of marketing principles in these industries through projects and activities. Topics of study will be: private enterprise system, consumer economics, world channels of distribution, purpose of marketing, types of marketing enterprises, careers in sports & entertainment marketing, marketing and distribution, promotion and pricing, human relations skills, and how technology affects business operations. Through course work, field trips and guest speakers, students will gain confidence and the opportunity to achieve marketable skills. In addition, students will take part in DECA, a national marketing student organization. Externship co-op eligible program. **This course will meet 1.0 credit of general elective requirement.**

**Teacher Cadet –PANKOW- Grades: 11 and 12 Course Number: 983 A/B 2 SEMESTERS 1.0 credit**

**Prerequisite:** Teacher recommendations and excellent attendance. Student must provide their own transportation to teaching field experience.

**Recommended Courses:** 2 years English, Math and Science - college bound students pursuing a degree in education.

This class is designed for those individuals interested in becoming a teacher. As ‘Teacher Cadets’, students will be prepared and placed in preschool, elementary or middle school classrooms. Teacher Cadets’ will work in the classroom with their mentor teacher participating in learning all the different aspects of teaching. The class will consist of lecture, discussion, simulation, debate, observation, videotaped sessions, role-playing, problem solving, decision making, and a teaching field experience in order to expose and educate the ‘cadet’ about learners, schools and the teaching field. Students will observe and participate in L’Anse Creuse Public School Classrooms at the elementary and middle school levels. **This course will meet 1.0 credit of general elective requirement.**

**Visual Imaging Technology –PANKOW- Grades: 11 and 12 Course Number: 918 A/B 2 SEMESTERS 1.0 credit**

**Prerequisite:** Basic Drawing.

**Recommended courses:** Basic Painting and/or Basic Color Theory, Algebra, 3-D classes such as pottery or sculpture.

Visual imaging deals with the most current phases and practical applications of commercial art and introduces them to the new world of Visual Imaging Technology. Students are provided with the basic knowledge of traditional and contemporary trends in the advertising industry by a simple business-in-art strategies and industry standard rules. Students continue their drawing by way of a weekly sketch book. Students are taught how to create eye-catching illustrations, learn photo retouching and page layouts with design skills, in the traditional sense as well as how they are created and their relation to today’s technology on An Apple iMAC computer. Students are introduced to graphic design, digital imaging and page layout skills through the use of computer software such as Adobe Illustrator CX3, Adobe Photoshop CS3 and Adobe InDESIGN CS3. This course is conducted in a business-like atmosphere, studying real jobs with real deadlines aiding the students in better understanding good time management skills. The curriculum exposes students to “real world” situations and processes of Visual Imaging Technology used in industry today. Students are provided information needed for post-secondary education, and/or prepare them for entry-level employment in the wonderful world of Commercial Art. College credit can be earned in this class. A fee may be required. **This course will meet 1.0 credit of general elective requirement.**

**Visual, Performing, and Applied Arts Department** - [Click here to return to Academic Offering Table of Contents](#)  
Academic Offerings

**ART**

**Advanced Placement (AP) Studio Art Portfolio – Grades: 10-12 Course Number: 426 A/B/C 3 Terms: 1.5 credits**

*Pre-Requisites: Intro to Visual art, Drawing & Design and Painting courses, or with written approval from instructor.* The AP Studio Art portfolio course was designed for students who are seriously interested in the practical experience of art. AP Studio Art is not based on a written exam; instead, students submit portfolios for evaluation at the end of the school year. The AP Studio Art Program consists of three portfolios — 2-D Design, 3-D Design and Drawing — corresponding to the most common college foundation courses. Students may pick one of the three portfolios to develop over the course of the year. The AP portfolio work will reflect three areas of concern: quality, concentration and breadth. AP Studio Art is for highly motivated students who are seriously interested in the study of art; the program demands significant commitment. As in the introductory college course, students will need to work outside the classroom, as well as in it, and beyond scheduled periods. The instructional goals of the AP Studio Art program can be described as follows: Encourage creative and systematic investigation of formal and conceptual issues. Emphasize making art as an ongoing process that involves the student in informed and critical decision making. Help students develop technical skills and familiarize them with the functions of the visual elements. Encourage students to become independent thinkers who will contribute inventively and critically to their culture through the making of art. **This class will meet 1.5 credits of the Fine and Performing Arts requirement. [Student will receive 1.0 Honor Point for successful completion of this course.](#)**

**Advanced Visual Art – Grades: 10-12 Course Number: 509X 1 Term: 0.5 credit**

**Pre-Requisite:** Successful completion of Introduction to Visual Art, Painting or Drawing/Design

**Recommendation:** B or better in all art classes

Course content will include portfolio preparation, two/three-dimensional media, advanced drawing, painting, sculpture, various art schools and university presenters will discuss portfolio and job training opportunities, as well as assist in preparation for college/university admission. This course is repeatable.

**This class will meet 0.5 of Fine and Performing Arts requirement.**

**Drawing/Design – Grades: 9-12 Course Number: 510X 1 Term: 0.5 credit** ([Click here to return to 9th Grade Course Offerings](#))

**Pre-Requisite:** Successful completion of Introduction to Visual Art

**Recommendation:** C or better in Introduction to Visual Art

Course content will include contour line, volume shading, landscape figures, portraiture, real life rendering, visual expression of motion, and imaginary composition. Students will use various media to develop craftsmanship and refine technique. Each Student will create a portfolio of two-dimensional media. This course is repeatable. **This class will meet 0.5 of Fine and Performing Arts requirement.**

**Introduction to Drama – Grades: 9-12 Course Number: 512X 1 Term: 0.5 credit** ([Click here to return to 9th Grade Course Offerings](#))

Course content will include acting/performing, create dramatic works, analyze, describe and evaluate dramatic works, understand, analyze, and describe the historical, social, and cultural contexts of dramatic works, connections between the arts, and other disciplines and everyday life. The focus of this course is both acting/performing and drama theory. The other elements listed above supplement performance.

**This class will meet 0.5 of Fine and Performing Arts requirement.**

Academic Offerings - [Click here to return to Academic Offering Table of Contents](#)

**Introduction to Visual Art- Grades: 9-12 Course Number: 514X 1 Term: 0.5 credit** *(Click here to return to 9th Grade Course Offerings)*

Course content will include color theory, drawing, visual design, use of line and shading, perspective views, and lettering. Cultural context will be discussed, as well as art history, experimentation of various drawing and painting techniques. **This class will meet 0.5 of Fine and Performing Arts requirement.**

**Painting – Grades: 9-12 Course Number: 515X 1Term: 0.5 credit** *(Click here to return to 9th Grade Course Offerings)*

**Pre-Requisite:** Successful completion of Introduction to Visual Art

**Recommendation:** C or better in Introduction to Visual Art

Course content will include landscape, still life, figures, spatial rendering, imaginary composition, through extensive use of various colors, techniques and media, students will produce original expressions and develop their painting skills. Techniques of painting are explored with transparent watercolors and tempera. This course is repeatable. **This class will meet 0.5 of Fine and Performing Arts requirement.**

## **DESIGN (TECHNOLOGY)**

**Introduction to Web Design- Grades: 9-12 Course Number: 653A 1 Term: 0.5 credit** *(Click here to return to 9th Grade Course Offerings)*

**Recommendation:** Students should have knowledge of Microsoft Office applications and Internet research skills.

Web Design is a hands-on, project-oriented class intended for self-directed students. Students will develop real-world technology skills while engaging in problem solving and higher-level thinking. In this course, students will gain an understanding of web design concepts and techniques that are essential to planning, creating, testing, publishing, and maintaining web sites. Students will learn and apply the essentials of web site layout, graphics, color, and multimedia, while demonstrating the maintenance and continuous improvement to a Web presentation. Topics will include citations, E-commerce, research, creating your own web page, evaluating web pages, Netiquette, creating, resizing and editing graphics, HTML basics and multimedia creations. **This course will meet 0.5 credit of the Technology elective requirement or 0.5 of the Visual/Performing Arts elective requirement.**

**Advanced Web Design – Grades: 11-12 Course Number: 653B 1Term: 0.5 Credit**

**Pre-Requisite:** Successful completion of Introduction to Web Design (see description on page 30). **Recommendation:** Students should have knowledge of Microsoft Office applications and Internet research skills. Advanced Web Design will include a more extensive exploration in this discipline. Students will have the opportunity to create web presence for community businesses or participate in a fall technology contest where money is awarded. In addition to using HTML, students will explore CSS and become a proficient user of Adobe Photoshop Elements. Advanced Web Design can be taken for repeat credit with each level building off the previous course. **This course will meet 0.5 credit of the Technology elective requirement or 0.5 of the Visual/Performing Arts elective requirement.**

Academic Offerings - [Click here to return to Academic Offering Table of Contents](#)

Academic Offerings - [Click here to return to Academic Offering Table of Contents](#)

## **INSTRUMENTAL MUSIC**

### **Guitar – Grades: 9-12 Course Number: 511X 1 Term: 0.5 credit** *(Click here to return to 9th Grade Course Offerings)*

Course content will include learning how to play scales, chords and songs on the guitar. Students will improve their performance skills and develop an appreciation for and understanding of music. **This class will meet 0.5 of Fine and Performing Arts requirement.**

### **Introduction to Music – Grades: 9-12 Course Number: 513X 1 Term: 0.5 credit** *(Click here to return to 9th Grade Course Offerings)*

Course content will include reading musical notation, introduction to music composition, music history and periods, careers in music, recognizing musical forms, styles and composers. This course will develop and increase a student's understanding and appreciation of music.

**This class will meet 0.5 of Fine and Performing Arts requirement.**

### **Jazz Ensemble – Grades: 9-12 Course Number: 501A/B 2 Terms: 1.0 credit** *(Click here to return to 9th Grade Course Offerings)*

**Pre-Requisite:** Placement by audition.

**Recommendation:** Successful completion of Symphonic Band or Wind Ensemble.

Course content will include improvisation, music theory, jazz eras, and jazz musicians. This course will help students to develop an understanding of the jazz idiom. Required performances include concerts, festivals and appearances in the community. The band performs a minimum of two to a maximum of five major productions a year. In addition to class time, students are required to rehearse one night a week. Rehearsals and performances outside the regular school day are required. **This class will meet 0.5 of Fine and Performing Arts requirement.**

### **Symphonic Band – Grades: 9-12 Course Number: 502A/B/C 3 Terms: 1.5 credits** *(Click here to return to 9th Grade Course Offerings)*

**Pre-Requisite:** Successful completion of a previous instrumental music course.

Course content will include development of performance skills, marching and maneuvering, musical notation, sight reading, tonal development, instrument technique, interpretation, periods and styles. This course will develop individual musicianship and ensemble skills. Required performances include concerts, festivals and appearances in the community. The solo and ensemble festival participation is optional. Participation in summer marching band camp is strongly encouraged and desirable, band festival and Wednesday night rehearsals are required. Rehearsals and performances outside the regular school day are required. **This class will meet 0.5 of Fine and Performing Arts requirement.**

### **Wind Ensemble – Grades: 9-12 Course Number: 503A/B/C 3 Terms: 1.5 credits**

**Pre-Requisite:** Placement by audition

Course content will include development of performance skills, marching and maneuvering, musical notation, sight reading, interpretation, periods and styles, tonal development, mastery of challenging literature, instrument technique. **This class will meet 0.5 of Fine and Performing Arts requirement.**

## VOCAL MUSIC

### **Concert Choir – Grades: 9-12 Course Number: 504A/B/C 3 Terms: 1.5 credits** *(Click here to return to 9th Grade Course Offerings)*

**Pre-Requisite:** Director will audition all interested students. Course content will include: Singing Performing

Ensemble work SAB, SATB unison octavos, note reading, tone production, dynamics, stage presence, choreography, costuming, vocalization of various musical styles and periods. This course is a mixed choir. The course will continue to teach students to build strong basic, choral skills and produce quality musical productions. The choir performs a minimum of two to a maximum of five major productions a year outside of the school day. Attendance at all rehearsals and performances is required. Formal apparel is provided. This course may involve projects to design individual costuming appropriate for programs and Broadway musical productions. A class syllabus is distributed during the first week of school with all necessary information including dates. **This class will meet 1.5 of Fine and Performing Arts requirement.**

### **Fusion – Grades: 9-12 Course Number: 505A/B/C 3 Terms: 1.5 credits**

**Pre-Requisite:** Director will audition all interested students from existing choir classes.

Singing, performing, ensemble work SAB, SATB octavo, basic music theory, note reading, tone production, dynamics, stage presence, choreography, costuming, expressive voice quality, showmanship, dance styles, various musical styles and periods. This is a mixed ensemble. The course will continue to teach students to build strong basic, choral skills and produce quality musical productions. There is a strong emphasis on choreography, as well as SATB vocal singing. This choir performs a minimum of two to a maximum of five “major” productions a year outside of the school day. Attendance at all rehearsals and performances is required. In addition, community events, school functions, and ceremonies are required. A highlight of the year is a National Choral Competition. Fundraising and payment plans are available. Students are strongly urged to recognize the importance of participating in the competition. Formal apparel is provided. This course will involve projects to design individual costuming appropriate for programs and Broadway musical productions. A class syllabus is distributed during the first week of school with all of the necessary information, including dates. **This class will meet 1.5 of Fine and Performing Arts requirement.**

### **Treble Choir – Grades: 9-12 Course Number: 506A/B/C 3 Terms: 1.5 credits** *(Click here to return to 9th Grade Course Offerings)*

Course content will include singing, performing, ensemble work SA, SSA, unison octavo, note reading, tone production, dynamics, stage presence, choreography, costuming, vocalization of various musical styles and periods. This course will teach students to build strong basic, choral skills, and produce quality musical productions. The choir performs a minimum of two to a maximum of five major productions a year outside of the school day. Attendance at all rehearsals and performances is required. Formal apparel is provided. This course will involve projects to design individual costuming appropriate for programs and Broadway musical productions. A class syllabus is distributed during the first week of school with all of the necessary information, including dates. **This class will meet 1.5 of Fine and Performing Arts requirement.**

### **Women’s Chamber Choir – Grades: 10-12 Course Number: 507A/B/C 3 Terms: 1.5 credits**

**Pre-Requisite:** Director will audition all interested females from Women’s Chorale and Lake Shore Singers or a ‘new’ incoming student to Lake Shore High School.

Course content will include singing, performing, ensemble work SSA, SSAA, unison octavo, note reading, tone production, dynamics, stage presence, choreography, costuming, various musical styles and periods. **This class will meet 1.5 of Fine and Performing Arts requirement.**

Academic Offerings - [Click here to return to Academic Offering Table of Contents](#)

## **MEDIA PRODUCTIONS (FORMERLY TELEVISION BROADCASTING)**

### **Introduction to Media Productions – Grades: 9-12 Course Number: 733X 1Term: 0.5 credit** *(Click here to return to 9th Grade Course Offerings)*

Course content will include an introduction to the terms and practices of media productions including the equipment, preproduction, production, and post production. Activities include learning about shot types, scripts, storyboarding and shot lists and sound file creation. This course also includes an introduction to video editing. This is a team-oriented class, where students work together to complete video productions such as a commercial and a music video. **This class will meet 0.5 of Fine and Performing Arts requirement.**

### **Media Productions I- Grades: 10-12 Course Number: 737A/B/C 3 Terms: 1.5 credits**

**Pre-Requisite:** Successful completion of Introduction to Media Productions or Media Productions Teacher Recommendation

This course is a continuation of the Introduction of Media Productions class. Course content includes use of all preproduction, production and post production elements and equipment. Students will get instruction in video editing beyond the basics. You will have the opportunity to record and produce videos for the school and community. The focus will be on performance and technical skills. Students will learn the importance of meeting deadlines, working in groups, and responsible journalism. **This class will meet 1.5 of Fine and Performing Arts requirement.**

### **Media Productions II – Grades: 11 and 12 Course Number: 738A/B/C 3 Terms: 1.5 credits**

**Pre-Requisite:** Successful completion of Media Productions I or Audition AND Media Productions Teacher Recommendation

This course will produce the live daily video announcements and work on special projects as needed by the school and district requests. Students will take the roles of producers and directors of the television announcements and be expected to lead production for both the creation of videos and production of daily announcements. Demonstrating the ability to work independently as well as display leadership qualities is important to class success. This course will sometimes require a time commitment that goes beyond the scheduled class time. **This class will meet 1.5 of Fine and Performing Arts requirement.**

## English Language Arts Department -

### **Advanced Placement (AP) English Language and Composition – Grade 11 Course Number: 265 A/B/C 3 Terms: 1.5 credits**

**Pre-Requisite:** Completion of Advanced Placement Application

**Recommendation:** B or better in previous Language Arts courses, signature of English teacher.

This one-year course is designed with an emphasis on meeting the requirements of the College Board Advanced Placement *AP English Language and Composition* examination. This college-level curriculum engages 11<sup>th</sup> grade students in becoming skilled readers of prose written in a variety of rhetorical contexts and in becoming skilled writers who compose for a variety of purposes. Both their writing and their reading should make students aware of the interactions among a writer's purposes, audience expectations, and subjects, as well as the way genre conventions and the resources of language contribute to the effectiveness of writing.

Instructional practices incorporate integration of diversity awareness including appreciation of all cultures and their important contributions to society. The appropriate use of technology and digital media are integral parts of this course. This course fulfills one of the English credits required for high school graduation.

Placement dependent upon recommendation of Lake Shore High School English 10 teacher required. **This class will meet 1.5 credits of English 11 requirement. .**

**[Student will receive 1.0 Honor Point for successful completion of this course.](#)**

### **Advanced Placement (AP) English Literature and Composition- Grade: 12 Course Number: 205A/B/C 3 Terms: 1.5 credits**

**Pre-Requisite:** Completion of Advanced Placement Application

**Recommendation:** B or better in previous language arts courses, signature of English teacher. Course content will include writing and analysis skills, the study and application of literary styles and techniques, literary terms, and vocabulary. Reading, analysis, and college-level writing skills will be built through a variety of poetry, novels, plays, short stories, projects, presentations, sample AP tests, discussions, and other material. This is a college level course that prepares students for the Advanced Placement exam for which students can earn college credit. Upon successful completion of this course, a student will earn one additional honor point toward his/her GPA. Summer reading is required. **This class will meet 1.5 credits of the Senior-year English requirement. [Student will receive 1.0 Honor](#)**

**[Point for successful completion of this course.](#)**

### **Creative Writing – Grades: 11-12 Course Number: 207X 1 Term: 0.5 credit**

Course content will include the development of creative process and imagination, grammar, sentence structure, poetic techniques, vocabulary, short story, thematic units, descriptive essays, biographical sketches, narratives, descriptive anecdotes and poems. This course provides opportunities for students to express themselves creatively in poems, journals and essays. Students will read a variety of publications to develop their assignments.

**This class will meet 0.5 credit of the Senior-year English requirement.**



Academic Offerings - [Click here to return to Academic Offering Table of Contents](#)

**Educational Paradigms – Grades: 11 and 12 Course Number: 605X 1 Term: 0.5 credit**

**Pre-Requisite:** Teacher/Counselor Recommendation. **Recommendation:** Interest in Human Service Pathway, 2.5 or above GPA during the previous school year, responsible attendance and behavioral history. Upperclassmen learn how to become Academic Tutors, providing support to freshmen in core academic areas: English, math, science, social science, foreign language, etc. Students will assist with organization, modeling study strategies, acting as a “coach”, and sharing experiences leading to high school success. Through this course students will improve their problem solving, personal management, organizational, communication and interpersonal skills. **This class will meet 0.5 credit of the Senior-year English elective requirement.**

**Literature and Rhetoric: Grade 9 Course Number: 201A/B/C Terms: 1.5 credits** *(Click here to return to 9th Grade Course Offerings)*

Course content will include understanding inter-relationships and self-reliance, novel development, thematic exploration, Shakespearean drama, comprehension strategies, guided highlighted reading, identification of theme, compare and contrasting paragraphs, identification of a range of genres, talk to the text, epics, poetry, double-column notes, critical reading literature devices, textual characteristics, grammar skills, high school reading/writing, summarization. Students will gain experience with non-fiction, informational reading selections as well as the application of college and career readiness strategies. These courses are aligned with the Michigan Common Core State Standards for English Language Arts. The CCR standards and high school grade-specific standards work in tandem to define college and career readiness expectations. Standards are defined as Reading Standards for Literature, Writing Standards, Speaking and Listening Standards and Language Standards. **This class will meet 1.5 credit of Freshman English requirement.**

**American Literature – Grade 10 Course Number: 202A/B/C 3 Terms: 1.5 credits**

Course content will include “The American Tradition: Contemporary Realistic Fiction”, informational reading selections, parts of speech, and sentence structure, persuasive, comparative and reflective essays, talk to the text, peer editing, think aloud, making predictions, writing fluency, guided highlighted reading, literary terms, modern American drama, non-fiction literature, the novel, close and critical reading, marginalia, Transcendentalism, graphic organizer, poetry, characterization, and extensive vocabulary development. These courses are aligned with the Michigan Common Core State Standards for English language Arts. The CCR standards, and high school grade-specific standards, work in tandem to define college and career readiness expectations. Standards are defined as Reading Standards for Literature, Writing Standards, Speaking and Listening Standards and Language Standards. **This class will meet 1.5 credit of the English requirement.**

**British Literature – Grade 11 Course Number: 203A/B/C Terms: 1.0 credit**

Course content will include vocabulary development, grammar, British literature (5th – 17th centuries during Term A), literary terms, the writing process, ACT preparation, British Literature ( 18th – 20th centuries during Term B), short stories, poetry, Shakespearean drama, story/character analysis, and legends. These courses are aligned with the Michigan Common Core State Standards for English language Arts. The CCR standards and high school grade-specific standards work in tandem to define college and career readiness expectations. Standards are defined as Reading Standards for Literature, Writing Standards, Speaking and Listening Standards and Language Standards. **This class will meet 1.0 credit of the English requirement.**

Academic Offerings - [Click here to return to Academic Offering Table of Contents](#)

**Modern Fiction & Literature– Grade: 12 Course Number: 215A 1 Term: 0.5 credit**

This course will present and explore in detail the major themes, ideas, and messages presented in a few selections of our modern literary classics; including an exploration of the ideas of Self-Discovery, Alienation, Moral Values, as well as the Human Condition. The class will also make allusions and connections to previously read material as well as analyzing the styles, times, and literary techniques of these outstanding 20<sup>th</sup> century writers. This course can be taken without a co-requisite of Contemporary Topics & Memoirs. **This class will meet 0.5 credit of the Senior-year English requirement.**

**Contemporary Topics & Memoirs - Grade: 12 Course Number: 215B 1 Term: 0.5 credit**

This course will cover some of the commonalities, themes, and major ideas found in the genre of non-fiction writing and will include selections from several modern literary classics. Book choices will explore riveting first person accounts of struggle and survival, activism, personal growth and multiple emotional and psychological Points-of-Views. The class will also explore Abstract Ideals, Compassion, and the power of the written word. We will also analyze the styles, times, and literary techniques of these outstanding 20th century citizens and we will examine what is unique about each of these memoirs and realize the universal truths about ourselves through literature. This course can be taken without a co-requisite of Modern Fiction & Literature. This course can be taken without a co-requisite of Modern Fiction & Literature. **This class will meet 0.5 credit of the Senior-year English requirement.**

**Film and Literature – Grades: 11-12 Course Number: 219 X 1 Term: 0.5 credit**

This class would discover the evolution of the relations between film and literature. Literature would consist of, short stories, plays, novellas and comics. Students will also demonstrate new directions and approaches for thinking about the bonds between film and literature. Students will investigate the long history and will participate in debates about the many ways film and literature interact. They will understand the choices screenwriter must make in order to adapt literature into film. **This class will meet 0.5 credit of Senior-year English elective requirement.**

**Film in our World – Grades: 11-12 Course Number: 208X 1 Term: 0.5 credit**

Course content will include the demonstration of the ability to determine literal and interpretive meaning, the demonstration of the ability to analyze material, the employment of reading strategies while interpreting college level material, the analysis of films from diverse traditions, the understanding of complex dialogue and analysis of all facets of film through rigorous writing assignments. Students will use literary techniques while writing and analyzing film. Students will understand the vocabulary and techniques of film and filmmaking. This class will provide students with an overview of cinematic history, spoken language, writing skills and culture. The goal is to utilize prior knowledge of literary techniques in order to analyze film. **This class will meet 0.5 credit of the Senior-year English elective requirement.**

**Greek Mythology – Grades: 11-12 Course Number: 209X 1 Term: 0.5 credit**

Course content will include the study of major Greek and Roman gods, the Palace of Olympus, nature myths, love stories, the underworld Greek heroes, and the study of literature-based vocabulary. This class is recommended for the proficient reader who seeks to further his/her knowledge and appreciation of literature. Students will develop strong note taking skills. Creative and analytic papers will be emphasized. **This class will meet 0.5 credit of the Senior-year English requirement.**

Academic Offerings - [Click here to return to Academic Offering Table of Contents](#)

**Mass Media – Grades: 11-12 Course Number: 211X 1 Term: 0.5 credit**

Course content will include advertising, propaganda, film and review, television and critiquing, periodical analysis, and social impact of the media. Students will become familiar with the impact of mass media on society. Activities will include readings, current events, research, class discussions, writing, interpretation, analysis, oral participation and objective evaluation. **This class will meet 0.5 credit of the Senior-year English requirement.**

**Public Speaking – Grades: 10-12 Course Number: 212X 1 Term: 0.5 credit**

Course content will include memorization speeches, manuscript speeches, extemporaneous speeches, impromptu speeches, debating, vocabulary, and grammar. Activities will include 12-15 speeches, research, outlining, rough drafts, and proofreading, videotaping and final presentations. **This class will meet 0.5 credit of the Senior-year English requirement.**

**Shakespeare – Grades: 11-12 Course Number: 221X 1 Term: 0.5 credit**

**Prerequisite: successful completion of English 9, English 11B**

Course content will provide students an opportunity to study the plays and sonnets of William Shakespeare. The focus will be on a variety of Shakespeare's tragedies, comedies, romances, and histories as well as Shakespeare's sonnets. The class emphasis will be on close reading, Socratic discussion and analysis of universal themes. Students will formally and informally present their ideas and knowledge through various writings and presentations, including live performance. **This class will meet 0.5 credit of the Senior-year English requirement.**

**Short Story – Grades: 11-12 Course Number: 214X 1 Term: 0.5 credit**

Course content will include vocabulary, essay writing, short story evaluation, American and European authors, characterizations, settings, plots, and traditional literary devices. Classic and contemporary social themes will be explored. Students will study classical and contemporary authors and investigate both fiction and non-fiction works. Story selections reflect universal themes such as teen issues, relationships, making choices and others. Creative writing will be incorporated as a response to the literature. **This class will meet 0.5 credit of the Senior-year English requirement.**

**Writing for Publications (*The Shoreline*)– Grades: 9-12 Course Number: 204 A/B/C 1 Term: 0.5 credit each term** [\(Click here to return to 9th Grade Course Offerings\)](#)

The students in this class produce the LSHS online publication *The Shoreline*. Course content will include article writing, interviewing, advertising, sales, web design, collaborative editing using Google Docs, photography, and class discussion. An emphasis will be placed on writing. Students who take this course must enjoy writing and be willing to improve with the help of editors. After-school commitments may be required. **This class will meet 0.5 credit of general elective requirement.**

Academic Offerings - [Click here to return to Academic Offering Table of Contents](#)

**Yearbook – Grades: 10-12 Course Number: 206A/B/C 3 Terms: 1.5 credits**

**Recommendation:** B or better in previous language arts courses, Computer Technology courses, and art courses. To enroll, students must submit a [Yearbook Application](#). Course content will include photography, page layout, sales and marketing, advertising, interviewing techniques, digital photography, computer-aided design and photography. Students are responsible for all aspects of the annual LSHS yearbook publication. After school commitment is required. **This course will meet 1.5 credits of general elective requirement. THIS COURSE DOES NOT MEET REQUIRED ENGLISH CREDIT.**

## Mathematics Department - [Click here to return to Academic Offering Table of Contents](#)

### Academic Offerings

#### **Algebra I A/B/C Grades: 9-12 Course Number: 103 A/B/C 3 Terms: 1.5 credits** *(Click here to return to 9th Grade Course Offerings)*

Course content includes number systems, data patterns, exponents, factoring, solving equations and inequalities, functions and linear functions, absolute value, and linear regression. A scientific /graphing calculator is used frequently and is highly recommended. **This class will meet 1.5 credits of the Mathematics requirement.**

#### **Algebra I Support – Grades: 9 Course Number: 111X 1Term: 0.5 credit** *(Click here to return to 9th Grade Course Offerings)*

**Pre-Requisite: Recommendation** of previous or current mathematics teacher. Must be concurrently enrolled in an Algebra I course. Applications/models will be used to give students a better understanding of math concepts. This course will focus on prerequisite skills, maintenance of current skills, test preparation and study skills. **This class will meet 0.5 credit of the general elective requirement. THIS CLASS DOES NOT MEET ANY REQUIRED MATHEMATICS CREDIT.**

#### **Algebra II A/B/C – Grades: 10-12 Course Number: 104 A/B/C 3 Terms: 1.5 credits**

**Pre-Requisite:** Successful completion of Geometry. Course content includes functions and their families, exponential, logarithmic, polynomial and rational functions, conic sections, trigonometric functions, sequences and series, basic probability and statistics. A scientific /graphing calculator is used frequently and is highly recommended. **This class will meet 1.5 credits of the Mathematics requirement.**

#### **Algebra II Support – Grades: 10-11 Course Number: 111T 1Term: 0.5 credit** *(Click here to return to 9th Grade Course Offerings)*

**Pre-Requisite: Recommendation** of previous or current mathematics teacher. Must be concurrently enrolled in an Algebra II course. Applications/models will be used to give students a better understanding of math concepts. This course will focus on prerequisite skills, maintenance of current skills, test preparation and study skills. **This class will meet 0.5 credit of the general elective requirement. THIS CLASS DOES NOT MEET ANY REQUIRED MATHEMATICS CREDIT.**

#### **Advanced Placement (AP) Calculus A/B/C Grades 11 and 12 Course Number: 107 A/B/C 3 Terms: 1.5 credits**

**Pre-Requisite:** Successful completion of Pre-Calculus. **Recommendation:** B or better in Pre-Calculus. Course content: functions, continuity, limits differentiation, definite, indefinite integration techniques, numerical approximations and slope fields. A scientific/graphing calculator is used frequently and is highly recommended. **This class will meet 1.5 credits of the Mathematics requirement. [Student will receive 1.0 Honor Point for successful completion of this course.](#)**

#### **Calculus – Grade: 12 Course Number: 109A/B/C 3 Terms: 1.5 credits**

**Pre-Requisite:** Successful completion of Pre-Calculus. Course content includes functions, continuity, limits differentiation, definite and indefinite integration techniques, numerical approximations and slope fields. A scientific/graphing calculator is used frequently and is highly recommended. **This class will meet 0.5 credit (per term) of the Senior Year Mathematics requirement.**

[Click here to return to Academic Offering Table of Contents](#)

**Data Analysis (Formerly Known as Data Analysis A) – Grade: 11 and 12 Course Number: 108A 1 Terms: 0.5 credit**

**Pre-Requisite:** Successful completion of Algebra II. Course content includes voting methods, annuities, amortizations and consumer loans, set theory, graph theory and logic. A scientific /graphing calculator is used frequently and is highly recommended. **This class will meet 0.5 credits of the Mathematics requirement.**

**Discrete Mathematics (Formerly Known as Data Analysis B) – Grades: 11-12 Course Number 108B 1 Term: 0.5 credit**

**Pre-Requisite:** Successful completion of Algebra II. Course content includes voting methods, annuities, amortizations and consumer loans, set theory, graph theory and logic. A scientific /graphing calculator is used frequently and is highly recommended. **This class will meet 0.5 credits of the Mathematics requirement.**

**Academic Offerings -**

**Financial Algebra A – Grades: 11 and 12 Course Number: 116A 1 Term: 0.5 credit**

**Recommendation:** Successful completion of Algebra II. Course content will included real life situations such as dealing in the stock market, business organization, stock market data, simple moving averages, stock market ticker, transactions, fees, splits and dividend income. Students will learn skills in modeling a business using scatterplots and linear regression, supply and demand, revenue functions and profit equations. Banking services including checking and saving accounts, reconcile of a bank statement, compound interest formulas, and future and present value of investments. **This class will meet 0.5 credits of the Mathematics requirement.**

**Financial Algebra B – Grades: 11 and 12 Course Number: 116B 1 Term: 0.5 credit**

**Recommendation:** Successful completion of Algebra II. Course content will included real life situations such as consumer credit including loans, credit cards, automobile ownership, buying and selling a car, automobile insurance, depreciation, driving data, accident investigations. Students will also experience lessons in searching for employment, pay periods/hourly rates, commissions, royalties, piecework pay, benefits, social security and Medicare. **This class will meet 0.5 credits of the Mathematics requirement.**

**Geometry A/B/C – Grades: 9-12 Course Number: 101A/B/C 3 Terms: 1.5 credits**

**Pre-Requisite:** Successful completion of Algebra I. Course content will include geometric figures, logic, proofs, properties of triangles, properties of lines, basics of trigonometry, quadrilaterals, transformations, area and volume. **This class will meet 1.5 credits of the Mathematics requirement.**

**Geometry Support – Grades: 10-12 Course Number: 112X 1Term: 0.5 credit**

**Pre-Requisite: Recommendation** of previous or current mathematics teacher. Student must be concurrently enrolled in a Geometry course. Applications and models will be used to give students a better understanding of mathematical concepts. This course will focus on prerequisite skills, maintenance of current skills, test preparation and study skills. **This class will meet 0.5 credit of the general elective requirement. THIS CLASS DOES NOT MEET ANY REQUIRED MATHEMATICS CREDIT.**

[Click here to return to Academic Offering Table of Contents](#) Academic Offerings

**Pre Calculus A/B – Grades: 11-12 Course Number: 106A/B 2 Terms: 1.0 credit**

**Pre-Requisite:** Successful completion of Algebra II.

**Recommendation:** B or better in Algebra II. Course content will include conic sections, permutations and combinations, graphs and behavior of functions, trigonometric functions and limits. A scientific /graphing calculator is used frequently and is highly recommended. **This class will meet 1.0 credit of the Mathematics requirement.**

**Probability and Statistics – Grades:11-12 Course Number: 108X 1 Term: 0.5 credit**

**Pre-Requisite:** Successful completion of Algebra II. Course content will include fundamentals of probability and statistics. A scientific /graphing calculator is used frequently and is highly recommended. **This class will meet 0.5 credits of the Mathematics requirement.**

## **Non-Departmental** - [Click here to return to Academic Offering Table of Contents](#)

### Academic Offerings

#### **Educational Paradigms – Grades: 11 and 12 Course Number: 605X 1 Term: 0.5 credit**

**Pre-Requisite:** Teacher/Counselor Recommendation. **Recommendation:** Interest in Human Service Pathway, 2.5 or above GPA during the previous school year, responsible attendance and behavioral history. Upperclassmen learn how to become Academic Tutors, providing support to freshmen in core academic areas: English, math, science, social science, foreign language, etc. Students will assist with organization, modeling study strategies, acting as a “coach”, and sharing experiences leading to high school success. Through this course students will improve their problem solving, personal management, organizational, communication and interpersonal skills. **This class will meet 0.5 credit of the Senior-year English elective requirement.**

#### **Geographic Information Systems – Grades: 11-12 Course Number: 657X 1 Term: 0.5 Credit**

Course content will capture, store, manipulate, analyze, manage, and present all types of spatial or geographical data. Students will use the ArcGIS software to create maps, data sets, and solve real world problems linked to history, geography, and STEM. There is currently a demand for individuals trained to use this complex software. GIS professionals work in government, utilities, natural resources, business, and intelligence agencies. **This course will meet 0.5 credit of the technology elective requirement.**

#### **Microsoft IT Academy – Grades: 11-12 Course Number: 620X 1Term: 0.5 Credit**

Microsoft has partnered with the state of Michigan to help students develop technology skills through the Microsoft IT Academy program and earn industry recognized certifications that prepare them for careers and college. Students will build foundational knowledge and IT skills leading to industry recognized certifications, including Microsoft Technology Associate (MTA) certification. The MTA certification is recommended as a foundation for higher technology certifications and provides students with the capability to perform entry level IT jobs. **This course will meet 0.5 credit of the technology elective requirement.**

#### **P.A.S.S. 9 or 10 (Personalized Academic Support Services) – Grades: 9 and 10 Course Number: 304X/309X 1 Term: 0.5 credit**

**Pre-Requisite:** This course is mandatory for incoming freshmen or current freshmen who have experienced academic difficulty prior to or during the first or second trimester of high school. P.A.S.S. Class is an academic support course designed for ninth grade students with a history of academic difficulty. P.A.S.S. Class provides support in all core classes and foreign language. Students will learn study skills appropriate for high school; responsibility training, time management, active listening, communication, note taking, goal setting, organization, prioritizing and test taking strategies. Upper classmen serving as tutors will work with students one-on-one or in small study groups. Tutors will serve as coaches and mentors. Daily progress reports will be used by P.A.S.S. students to direct their academic daily focus and be the primary grading tool. Other projects include P.A.S.S. students creating academic, behavioral, and attendance goals for each of their other classes. Parental involvement is strongly encouraged. **This class will meet 0.5 credit of the general elective requirement.**

#### **Fall Principles of Leadership – Grades: 9-12 Course Number: 618X 1 Term: 0.5 credit**

Fall or Winter Principles of Leadership is a class held to plan and implement student congress activities such as the annual Homecoming Dance, Charity Week and the Snowcoming Dance. **This class will meet 0.5 credit of the general elective requirement.**



Academic Offerings - [Click here to return to Academic Offering Table of Contents](#)

**Scholastic Assess Test Prep (SAT Prep) – Grade: 11 Course Number: 220X 1 Term: 0.5 credit**

Course content will include a review of concepts in English Language Arts, vocabulary, critical reading, and mathematics concepts. In addition, proven test taking skills will be reviewed practiced during this course. **This class will meet 0.5 credit of the general elective requirement.**

**Senior Leadership – Grade: 12 Course Number: 619 X 1 Term: 0.5 credit**

This is a senior level course where students provide leadership and guidance to special needs students. **This class will meet 0.5 credit of the general elective requirement.**

**Shorian Help Desk – Grades: 11-12 Course Number: 658X 1 Term: 0.5 Credit**

**Pre-Requisite:** Successful completion of Career and Technology Foundations. This course is designed to provide students with an opportunity to expand their technology support skills while honing their interpersonal skills. This course will utilize a small number of students available during designated hours to provide technical support to teachers, students, and community. While service and response to customer IT needs will be the primary purpose of the course, this course will also further develop a student’s knowledge, understanding, and competency in technological support. **This course will meet 0.5 credit of the technology elective requirement.**

**Spring Principles of Leadership – Grade: 12 Course Number: 618X 1 Term: 0.5 credit**

This is a senior level course conducted in the standard collegiate lecture format, will include leadership skills, financial skills and advice, relationships, people skills, communication skills, and much, much more. Guest lectures will be used along with Lake Shore staff. This will help get students ready for the “lecture hall” style of college courses. Students will be exposed to different types of training in large seminar styles for the job world. Spring Principles of Leadership is for 12th grade students only. **This class will meet 0.5 credit of the general elective requirement.**

## Physical Education & Health Department - [Click here to return to Academic Offering Table of Contents](#)

### Academic Offerings

#### **Aerobics - Grades: 10-12 Course Number: 451X 1 Term: 0.5 credit**

**Pre-Requisite:** Successful completion of Physical Education. **Recommendation:** C or better in Physical Education. To repeat this course, a student must earn a C or better in Aerobics. Course content will include high and low impact exercise, step aerobics, power walking, jogging, resistance training, kickboxing, and circuit training. This class will teach students the value of a healthy exercise program. This is an activity-based class. Students must dress in appropriate attire to participate on a daily basis. **This class will meet 0.5 credit of the Physical Education ELECTIVE requirement.**

#### **Fitness/Conditioning – Grades: 9-12 Course Number: 452X 1 Term: 0.5 credit**

**Pre-Requisite:** Successful completion of Physical Education. **Recommendation:** C or better in Physical Education. To repeat this course, a student must earn a C or better in Fitness/Conditioning. This class will teach students the value of a healthy exercise program. This is an activity-based class. Students must dress in appropriate attire to participate on a daily basis. **This class will meet 0.5 credit of the Physical Education ELECTIVE requirement.**

#### **Fitness/Conditioning II – Grades: 9-12 Course Number: 453X 1Term: 0.5 credit**

**Pre-Requisite:** Completion of Fitness/Condition I with a C or better. Students will expand on what was learned in Fitness/Conditioning I. They will develop a personalized workout plan geared to the student's personal fitness goals. Students will develop a personalized weight program, workout on a daily basis, record the results of and evaluate workout performance, make changes based on the success, and make a commitment to include physical activity as an important part of a healthy lifestyle. **This class will meet 0.5 credit of the Physical Education ELECTIVE requirement.**

#### **Human Health- Grades: 9-12 Course Number: 481X 1 Term: 0.5 credit** *(Click here to return to 9th Grade Course Offerings)*

Course content will include infectious diseases, sexuality, human relationships, nutrition, personal care, community health awareness, HIV/AIDS.

This class will teach students health education as the continuum of learning experiences, which enables people, as individuals and as members of social structures, to make informed decisions, modify behaviors, and change social conditions in ways which are health enhancing. Students will learn to obtain, interpret, and apply health information and services in ways that protect and promote personal, family, and community health. Students will learn how to take each lesson and incorporate it into their everyday life to obtain essential living skills for their life.

**This class will meet 0.5 credit of the Human Health requirement.**

Academic Offerings - [Click here to return to Academic Offering Table of Contents](#)

**Life Guarding – Grades: 10-12 Course Number: 455X 1 Term: 0.5 credit** [\(Click here to return to 9th Grade Course Offerings\)](#)

**Pre-Requisite:** Physical Education and completion of swimming skills test at the beginning of class. Student will gain entry-level lifeguard skills and knowledge to prevent, recognize, and respond to emergencies and to provide care for injuries and sudden illnesses until advanced medical personnel arrive and take over. Student will demonstrate basic water rescue skills, know CPR for the professional rescuer, and know how to use an Automated External Defibrillator (AED), be able to prevent disease transmission, be able to monitor an aquatic environment for safety issues in and around the area. Students must be 15 years old on or before the final scheduled session of this course. **This class will meet 0.5 credit of the Physical Education ELECTIVE requirement.**

**Life Long Sports – Grades: 10-12 Course Number: 450X 1 Term: 0.5 credit**

**Pre-requisite:** Physical Education. Course activities: golf, frisbee golf, bowling, pickleball, bag toss, spike ball, ladder golf, bocce ball, washer toss, and badminton. Students must dress to participate on a daily basis. **This class will meet 0.5 credit of the Physical Education ELECTIVE requirement.**

**Physical Education – Grades: 9-12 Course Number: 456X 1 Term: 0.5 credit** [\(Click here to return to 9th Grade Course Offerings\)](#)

Course content will include soccer, football, volleyball, basketball, bowling, speedball, badminton, softball, swimming, and fitness activities which may include circuit training. Students will learn that physical activity is an important part of a healthy life style. In each activity, skills, strategies and sportsmanship will be stressed. This is an activity-based class. Students must dress in appropriate attire to participate on a daily basis.

**This class will meet 0.5 credit of the Physical Education requirement.**

**Swimming – Grades: 9-12 Course Number: 457X 1 Term: 0.5 credit** [\(Click here to return to 9th Grade Course Offerings\)](#)

**Pre-Requisite:** Successful completion of Physical Education. **Recommendation:** C or better in Physical Education. To repeat this course, a student must earn a C or better in Swimming. Course content will include learning/performing crawl, side, back, and breast strokes, water safety, water games, basic water rescue, and CPR. **This class will meet 0.5 credit of the Physical Education ELECTIVE requirement.**

**Team Sports – Grades: 10-12 Course Number: 458X 1 Term: 0.5 credit**

**Pre-requisite:** Successful completion of Physical Education. **Recommendation:** C or better in Physical Education. To repeat this course, a student must earn a C or better in Team Sports. Course content will include the games of basketball, soccer, speedball, touch/flag football, volleyball, and softball. This is an activity-based class. Students must dress in appropriate attire to participate on a daily basis. **This class will meet 0.5 credit of the Physical Education ELECTIVE requirement.**

## Science Department - [Click here to return to Academic Offering Table of Contents](#)

### Academic Offerings

#### **Advanced Placement (AP) Biology – Grades: 11 and 12 Course Number: 403A/B/C 3 Terms: 1.5 credits**

**Pre-Requisite:** Biology and Chemistry, and/or Advanced Chemistry and teacher recommendation.

**Recommendation:** B or better in Biology, Chemistry and/or Advanced Chemistry. Prerequisite *recommendation* of Anatomy/Physiology and/or Health Science. Course content will include heredity, DNA structure, function and regulation, and genetic technology, principles of evolution, plant diversity and photosynthesis, regulation of cell process in plants and animals, cellular process and chemistry, ecological relationships between organisms and their energy needs, animal diversity and evolutionary development. This class prepares students for college level laboratory science classes. This is a college level course that prepares students for the AP Biology exam; earning a qualifying score on exam enables students to have college credit. Summer work is required. **This class will meet 1.5 credits of the science elective requirement. [Student will receive 1.0 Honor Point for successful completion of this course.](#)**

#### **Advanced Placement (AP) Chemistry – Grades: 11 and 12 Course Number: 416 A/B/C 3 Terms: 1.5 credits**

**Pre-Requisite:** Biology, Advanced Chemistry and teacher recommendation.

**Recommendation:** Success in Advanced Chemistry and an average grade of B or better in Algebra 2

Course content will include fundamental concepts of chemistry such as structure and states of matter, intermolecular forces, reactions, and how to use chemical calculations to solve problems. Students will develop the ability to think clearly and express ideas with clarity and logic, verbally and in writing. Students will work with classmates to conduct meaningful laboratory investigations that allow observation of chemical reactions and substances, interpretation and communication of findings. This is a college level course that prepares students for the AP Chemistry exam; earning a qualifying score on exam enables students to have college credit. Summer work is required. **This class will meet 1.5 credits of the science elective requirement. [Student will receive 1.0 Honor Point for successful completion of this course.](#)**

#### **Advanced Chemistry -Grades: 10-12 Course Number: 415 A/B 2 Terms: 1.0 credit**

**Pre-Requisite:** Successful completion of Biology I and Algebra I. **Recommendation:** C or better in Biology I, B or better in Algebra I or Geometry and Biology I teacher recommendation. Course content will include forms of energy, energy transfer, and conservation, properties of matter, changes in matter, and the mathematics of chemical reactions. This course fulfills the state graduation requirement of one credit of Chemistry or Physics. This course is intended for students who plan to attend college. It is a comprehensive look at the structure, states, and interactions of matter. Mathematics is regularly used to help describe and predict chemical behavior; therefore, students are strongly encouraged to enroll concurrently in Algebra II. Students will gain valuable laboratory and problem solving skills. **This class will meet 1.0 credit of the Chemistry/Physics requirement.**

Academic Offerings - [Click here to return to Academic Offering Table of Contents](#)

**Advanced Physics – Grades: 10-12 Course Number: 405 B 1 Term: 0.5 credit**

**Pre-Requisite:** Successful completion of Physics A. Course content will include motion forces, work power, energy heat, light, sound, electricity, and magnetism. Physics is the study of matter, energy and their interactions. Mathematical formulas are used to describe physical phenomena. Students will perform laboratory experiments to explore the practical application of scientific theory. **This class will meet 0.5 of the Physics/Chemistry science requirement.**

**Anatomy and Physiology – Grades: 10-12 Course Number: 407X 1 Term: 0.5 credit**

**Pre-Requisite:** Successful completion of Biology I and additional sciences credit

**Recommendation:** B or better in Biology I. Course content will include: Anatomical parts and their functions, systems of the human body and other mammals, and homeostasis. Student activities will include lab experiences, dissection, research projects, and memorization of anatomical parts and systems. **This class will meet 0.5 credit of the science elective requirement.**

**Astronomy - Grades: 11 and 12 Course Number: 408X 1 Term: 0.5 credit**

**Pre-Requisite:** Successful completion of Biology and an additional science credit. Course content will include the sky, moon, gravity, telescopes, stars, starlight, formation, death of stars, neutron stars, and black holes, universe, Milky Way, types of galaxies, solar system formation, planets, meteorites, asteroids and comets. Students also explore the possibility of life elsewhere in the universe and necessary conditions in order for a planet to host life. Student activities will include lab experiences and research projects. **This class will meet 0.5 credit of the science elective requirement.**

**Backyard Ecosystems - Grades: 11 and 12 Course Number: 4271 Term: 0.5 credit**

**Pre-Requisite:** Successful completion of Biology and an additional science credit. Course content will include hands on projects such as creating garden spaces to attract birds, butterflies and various insects and creating a Monarch Waystation. Students will delve into topics such as fertilizers, GMOs and how humans impact on the environment. **This class will meet 0.5 credit of the science elective requirement.**

**Biology I – Grades: 9-12 Course Number: 401A/B 2 Terms 1.0 credit**

Course content will include cell functions and processes, characteristics of life, scientific method, ecology, natural cycles, human impact on the world, evolution, genetics and classification of organisms. It is highly recommended that this course be taken before the spring term of the junior year. **This class will meet 0.5 credit of the Biology I requirement.**

**Chemistry - Grades: 10-12 Course Number: 404A/B 2 Terms: 1.0 credit**

**Pre-Requisite:** Successful completion of Biology I and Algebra I. **Recommendation:** C or better in Biology I, B or better in Algebra I or Geometry and Biology I teacher recommendation. Course content will include forms of energy, energy transfer and conservation, properties of matter, and changes in matter. It is an examination of structure, states, and interactions of matter. Mathematics is regularly used to help describe and predict chemical behavior. Laboratory experiments give students firsthand experience with chemical behavior and to develop basic laboratory and problem solving skills. This content is included on the MME taken in Spring Junior Year. **This class will meet 1.0 credit of the Chemistry/Physics requirement.**

Academic Offerings - [Click here to return to Academic Offering Table of Contents](#)

**Earth Science - Grade: 9 Course Number: 409X 1 Term: 0.5 credit**

Course content will include an introduction of chemistry. Atomic structure and periodic table are briefly discussed as well as chemical reactions. Students move on to a unit of Space Science, discussing the Big Bang, stellar evolution, light and the Electromagnetic Spectrum. Plate tectonics, earth construction and destruction is included in the curriculum. Finally, climate change and contributing factors wrap up the course. **This class will meet 0.5 credit of the science elective requirement.**

**Environmental Science - Grades: 11- 12 Course Number: 410X 1 Term: 0.5 credit**

**Recommendation:** Successful completion of two science credits. Course content will include biomes, ecosystems, living communities, cycles and succession. We will also discuss population dynamics, human interaction with the environment as well as stewardship and activism. This course covers basic environmental concepts and in-depth studies of environmental issues particular to the Great Lakes, Lake St. Clair and Southeast Michigan. Students will participate in local environmental processes and activities. **This class will meet 0.5 credit of the science elective requirement.**

**Forensic Science – Grades: 11-12 Course Number: 421X 1 Term: 0.5 credit**

**Pre-Requisite:** Successful completion of Biology and Chemistry and/or Physics. **Recommendation:** B or better in Biology, Chemistry and/or Physics  
Course content will include biology: DNA, fingerprinting, hair evidence, chemistry, identification of unknown substances, physics, ballistics, blood spatter, and glass evidence. Student activities will include lab experiences in Biology, Chemistry and Physics. Students will solve problems and prepare problems for others to solve. **This class will meet 0.5 credit of the science elective requirement.**

**Geology – Grades: 11-12 Course Number: 422X 1 Term: 0.5 credit**

**Pre-Requisite:** Successful completion of Biology and an additional science credit. Course content will include rocks and minerals, plate tectonics, faults, volcanoes, earthquakes, geologic time, the fossil record, glaciers, and mapping. Student activities will include lab experiences, research projects, and identification of geologic material. **This class will meet 0.5 credit of the science elective requirement.**

**Honors Anatomy and Physiology - South Lake High School – Grades: 11-12 Course Number: 412A/B 2 SEMESTERS 1.0 credit**

\*\*This course meets at **South Lake High School**. **Pre-Requisite:** Successful completion of Biology, Chemistry/Advanced Chemistry and Algebra II

**Recommendation:** B or better in Chemistry and Algebra II

Course content will include body plan review and update of body chemistry, cytology/histology (normal vs. abnormal tissues), body framework/osseous tissue, muscle tissue, nervous tissue/nervous system/organs of sense, naso/oral pharyngeal regions, gastrointestinal tract, mechanics and chemistry of respiration, hematology, and homeostatic mechanisms. This course prepares students for college level laboratory science classes. Students will be expected to perform several dissections. **This class will meet 1.5 credits of the science elective requirement.** [Student will receive 1.0 Honor Point for successful completion of this course.](#)

Academic Offerings - [Click here to return to Academic Offering Table of Contents](#)

**Introduction to Chemistry – Grade: 9 Course Number: 423X 1 Term: 0.5 credit** *(Click here to return to 9th Grade Course Offerings)*

Course content will include affording students the opportunity to enhance their knowledge about several chemistry topics that may be covered on the Michigan Merit Examination. They will investigate topics such as energy, atomic structure, chemical and physical changes and chemical reactions. The goal of this course is to present information that will allow students to have an understanding of chemistry, through inquiry and real world study of science. **This class will meet 0.5 credit of the science elective requirement.**

**Introduction to Physics – Grade: 9 Course Number: 424X 1 Term: 0.5 credit** *(Click here to return to 9th Grade Course Offerings)*

Course content will include affording students the opportunity to enhance their knowledge about several physics topics that may be covered on the Michigan Merit Examination. They will investigate topics such as force, motion, energy and waves. The goal of this course is to present information that will allow students to have an understanding of physics phenomena, through inquiry and the real world study of science. **This class will meet 0.5 credit of the science elective requirement.**

**Oceans and Atmosphere – Grades: 11-12 Course Number: 425X 1 Term: 0.5 credit**

**Pre-Requisite:** Successful completion of Biology and an additional science credit. Course content will include study of atmosphere, weather and climate, oceans currents, waves and tides. Student activities will include lab experiences and research projects. **This class will meet 0.5 credit of the science elective requirement.**

**Physics – Grades: 10-12 Course Number: 405 A 1 Term: 0.5 credit**

**Recommendation:** Successful completion of Biology I and Geometry A. Course content will include motion forces, work power, energy heat, light, sound, electricity, and magnetism. Physics is the study of matter, energy and their interactions. Mathematical formulas are used to describe physical phenomena. Students will perform laboratory experiments to explore the practical application of scientific theory. **This class will meet 0.5 of the Physics/Chemistry science requirement.**

**Zoology – Grades: 11-12 Course Number: 411X 1 Term: 0.5 credit**

**Pre-Requisite:** Successful completion of two science credits. Concepts will include animal behavior, animal evolution, animal anatomy, and ecology. In addition to the above topics, special attention may be given to the study of animals indigenous to Michigan. **This class will meet 0.5 credit of the science elective requirement.**

## **Social Sciences Department** - [Click here to return to Academic Offering Table of Contents](#)

### **Academic Offerings**

#### **Advanced Placement Economics – Grades: 10-12 Course Number: 351 A/B/C 3Terms: 1.5 credits**

**Recommendation:** Student has earned a B or better in previous social science courses. 10th Grade students who wish to enroll in this course may do so with instructor approval. A.P. Economics is a college level, full year course designed to provide students with a thorough understanding of the principles of economics. A.P. Economics will emphasize the study of national income, economic performance measures, economic growth and international economics. The aim of A.P. Economics is to provide the student with a learning experience equivalent to that obtained in a typical college introduction level economics course. Students will learn to think like economists – to question, to evaluate marginal costs and marginal benefits, to explore the many ways that one action will cause secondary actions. The course will be split into 2 areas of focus in order to best prepare students for the AP Microeconomics and Macroeconomics exams in May. Students may replace the required 0.5 credit “Economics” course to meet grad requirements with this full year 1.5 credit course. Students often take Economics first and then decide to enroll in AP Economics the following year if it is an area of interest. **This class will meet 1.5 credits of the Economics and/or general elective requirements. [Student will receive 1.0 Honor Point for successful completion of this course.](#)**

#### **Advanced Placement Government – Grades: 11-12 Course Number: 371 A/B/C 3Terms: 1.5 credits**

**Recommendation:** Student has earned a B or better in previous social science courses. 10th Grade students who wish to enroll in this course may do so with instructor approval.

Course content will include study of politics, voting, United States Constitution, interest groups, legislative branch, executive branch, and the judicial branch. Activities will include essays, research papers, debates and significant reading assignments. This is a college level course that prepares students for the AP Government exam for which students can earn college credit. Upon successful completion of this course, a student will earn one additional honor point toward his/her GPA. Students may replace the required 0.5 credit “Government” course to meet grad requirements with this full year 1.5 credit course. Students often take Government first and then decide to enroll in AP Government the following year. **This class will meet 1.5 credits of the social studies elective requirements. [Student will receive 1.0 Honor Point for successful completion of this course.](#)**

#### **Advanced Placement Psychology - Grades 11-12 Course Number: 310 A/BC 3 Terms: 1.5 credits**

**Prerequisite:** A written essay describing interest and intent in AP Psychology

Course content will include the study of history and approaches of psychology, research methods, biological bases of behavior, sensation and perception, states of consciousness, learning, cognition, motivation and emotion, developmental psychology, personality, abnormal psychology, testing, individual differences, social psychology, and treatment of psychological disorders. Activities will include essays, research papers, debates, and significant reading assignments. This is a college level course that prepares students for the AP Psychology exam for which students can earn college credit. Upon completion of this course, a student will earn one additional honor point toward his/her GPA. **This class will meet 1.5 credits of the social studies elective requirements. [Student will receive 1.0 Honor Point for successful completion of this course.](#)**



Academic Offerings - [Click here to return to Academic Offering Table of Contents](#)

**Advanced Placement United States History – Grades 10-12 Course Number: 311 A/B/C 3 Terms: 1.5 credits**

Prerequisite: Successful completion US History 1 and US History 2 or the recommendation of your English instructor, due to the rigor of the written exam. Course content will include study of American Culture, economic transformation, religion in the U.S., American diversity, environmental issues, slavery and its impact/legacy, American identity, globalization, social & political movements/reforms, demographic changes, politics and citizenship, and war & diplomacy. Activities will include essays, research papers, debates, and significant reading assignments. This is a college level course that prepares students for the AP U.S. History exam for which students can earn college credit. Upon completion of this course, a student will earn one additional honor point toward his/her GPA. **This class will meet EITHER 1.5 credits of the American History requirement OR 1.5 credits of social studies elective requirements. [Student will receive 1.0 Honor Point for successful completion of this course.](#)**

**American Civil War – Grades: 11-12 Course Number: 301 X 1 Term: 0.5 credit**

**Recommendation:** Successful completion of American History I. 10th Grade students who wish to enroll in this course may do so with instructor approval. Course content will include the study of cause and effect, economics, personalities, major battles, technology, crime and punishment, medicine, prison camps, soldier and civilian lifestyles. Students will research information, write papers and make presentations. Students will be involved in various hands-on projects, setting up displays and bulletin boards. Students are encouraged to attend a Saturday field trip. **This class will meet 0.5 credit of the social studies elective requirement.**

**American History I – Grade 10 Course Number: 302 A 1 Term: 0.5 credit**

Course content will include study of conflict and leadership, imperialism, Spanish American War, the Cold War, World Wars I and II, as well as the Korean and Vietnam Wars. Students will participate in activities including research projects, lecture and note taking, group work, simulations, student presentations, analyzing primary documents, reading assignments and writing essays. **This class will meet 0.5 credit of the American History I requirement.**

**American History II - Grade 10 Course Number: 302 B 1 Term: 0.5 credit**

Course content will include study of economic development, the Industrial Revolution, labor movement, the Great Depression/New Deal, the end of the Cold War, growth of suburbia, the Civil Rights Movement, and the Progressive Movement. Students will participate in activities including research projects, lecture and note taking, group work, simulations, student presentations, analyzing primary documents, reading assignments and writing essays. **This class will meet 0.5 credit of the American History II requirement.**

Academic Offerings - [Click here to return to Academic Offering Table of Contents](#)

**Big History Project - Grade 10-12 Course Number: 313 A/B 2 Terms: 1.0 credit**

This two trimester course surveys the entire 13.7 billion years of the Universe's existence. Students will cover nine different 'thresholds' that begin with the Big Bang and end with the Anthropocene Era (modern times). Big History teaches students to analyze and test claims enhancing students' critical thinking skills. This course is perfect for students who love history and science. Students are required to access a home computer with internet service. All content and assignments are computer-based through the internet. **This class will meet 1.0 credit of the general elective requirement.**

**Contemporary World Issues – Grades: 11-12 Course Number: 307 X 1Term: 0.5 credit**

**Recommendation:** 10th Grade students who wish to enroll in this course may do so with instructor approval.

Course content will include the study of globalization, conflict/cooperation, United Nations, human rights, genocide, environmental issues, and current events. Students will participate in activities including research projects, lecture and note taking, essay writing, group work simulations, student presentations, as well as debate and discussion. **This class will meet 0.5 credit of the social studies elective requirement.**

**Economics – Grades: 10-11 Course Number: 351 X 1 Term: 0.5 credit**

**Recommendation:** This course must be completed by the end of the winter term during junior year, in order to prepare for the MME Class.

Course content will include the study of scarcity, supply and demand, economic systems, business organization, market structure, trade, banking and finance, taxation, United States government interaction. Students will participate in activities including research projects, lecture and note taking, group work, simulations, student presentations, analyzing data (graphs, charts, etc), reading assignments and writing essays. It is recommended that this course be taken before the third term of the junior year. **This class will meet 0.5 credit of the Economics requirement.**

Academic Offerings - [Click here to return to Academic Offering Table of Contents](#)

**Government – Grades: 10-11 Course Number: 372 X 1 Term: 0.5 credit**

**Recommendation:** This course should be completed by the end of the winter term during junior year.

Course content will include comparative governments, United States Constitution, the three branches of government, history and formation of United States government, election process, civil rights and civil liberties, political parties, current events and foreign affairs. Students are expected to participate in debates, mock congress and other simulations. It is recommended that this course be taken before the third term of the junior year. **This class will meet 0.5 credit of the Government requirement.**

**Practical Law – Grades: 11-12 Course Number: 308 X 1 Term: 0.5 credit**

**Recommendation:** 10th Grade students who wish to enroll in this course may do so with instructor approval.

Course content will include study of court systems, contract law, torts, employment law, consumer rights, lawmaking process, property law, criminal law, rights and responsibilities of adults and minors, US Constitution, political and legal decisions. Students will participate in activities including mock trials, media center research, group and individual problem solving, essays and possible field trips. **This class will meet 0.5 credit of the social studies elective requirement.**

Academic Offerings - [Click here to return to Academic Offering Table of Contents](#)

**Psychology – Grades: 11-12 Course Number: 305 X 1 Term: 0.5 credit**

**Recommendation:** 10th Grade students who wish to enroll in this course may do so with instructor approval.

Course content will include the study of prominent psychologists, psychological perspectives, various theories of personal development, defense mechanisms, human development, behavior disorders, and current treatments for psychological problems. Students will participate in activities including guest speakers, oral presentations and a research project. **This class will meet 0.5 credit of the social studies elective requirement.**

**Sociology – Grades: 11-12 Course Number: 306 X 1 Term: 0.5 credit**

**Recommendation:** 10th Grade students who wish to enroll in this course may do so with instructor approval.

Course content will include culture, socialization, social structure, social deviance, racial and ethnic issues, social institutions, social problems, future societies, and social change. Students will use a variety of media resources for class projects. **This class will meet 0.5 credit of the social studies elective requirement.**

**World History I – Grade: 9 Course Number: 303 A 1 Term: 0.5 credit** ([Click here to return to 9th Grade Course Offerings](#))

Course content will include the study of the Mongolian Conquest, dynastic China, medieval Japan, world religions, the rise of Islam, Islamic Empires, and medieval Europe. Course activities may include research projects, lecture and note taking, group work, simulations, student presentations, analyzing primary documents, reading assignments and writing essays. Due to the chronological nature of this course, World History I must be taken before World History II. **This class will meet 0.5 credit of the World History I requirement.**

**World History II – Grade: 9 Course Number: 303 B 1 Term: 0.5 credit** ([Click here to return to 9th Grade Course Offerings](#))

Course content will include the study of the Renaissance, Protestant Reformation, the Age of Exploration, the Scientific Revolution/Enlightenment, the Industrial Revolution, Imperialism, WWI (1914-1918), and the Russian Revolution. Course activities may include research projects, lecture and note taking, group work, simulations, student presentations, analyzing primary documents, reading assignments and writing essays. Due to the chronological nature of this course, World History II must be taken after World History I. **This class will meet 0.5 credit of the World History II requirement.**

## Department of World Languages - Academic Offerings [Click here to return to Academic Offering Table of Contents](#)

### **German I – Grades: 9-12 Course Number: 255 A/B 2 Terms: 1.0 credit** *(Click here to return to 9th Grade Course Offerings)*

Course content will include the study of German speaking, listening, reading and writing. We will also study the cultural aspects of German speaking countries, useful vocabulary and expressions, and grammar. Students will first repeat fundamental sounds, then words and phrases, and finally be able to formulate complete original sentences. Students will participate in a variety of speaking and writing activities and projects. **This class will meet 1.0 credit of the World Language requirement.**

### **German II – Grades: 9-12 Course Number: 256 A/B 2 Terms: 1.0 credit**

**Pre-Requisite:** Successful completion of German I A and B

Course content will include the study of German speaking, listening, reading and writing. We will also study conversational patterns and expressions, grammar and vocabulary, cultural and customs of German speaking countries, and geography. Students will demonstrate spontaneous and self-directed communication abilities through authentic projects and activities. The learner will be expected to reach an acceptable level of performance understandable to a native speaker.

**This class will meet 1.0 credit of the World Language requirement.**

### **German III – Grades: 10-12 Course Number: 257 A/B 2 Terms: 1.0 credit**

**Pre-Requisite:** Successful completion of German II

Course content will include the study of the influence of German culture on the world as well as German speaking, listening, reading and writing. **This class will meet 1.0 credit of the World Language requirement.**

### **German IV – Grades: 10-12 Course Number: 261 A/B 2 Terms: 1.0 credit**

**Pre-Requisite:** Successful completion of German III

**Recommendation:** B- or better in German III

Course content will include the study of extensive vocabulary, advanced grammar, and German culture and literature. This course involves intensive listening and speaking exercises practicing the German language. Activities will include the reading of German short stories and fairy tales.

German reading and writing skills will be developed extensively. **This class will meet 1.0 credit of the World Language requirement.**

Academic Offerings - [Click here to return to Academic Offering Table of Contents](#)

**Mandarin Chinese I – Grades: 9-12 Course Number: 264 A/B 2 Terms: 1.0 credit** *(Click here to return to 9th Grade Course Offerings)*

Mandarin Chinese is the study of basic speaking, reading, and writing Mandarin Chinese. Students will develop their vocabulary and basic character skills. **This class will meet 1.0 credit of the World Language requirement.**

**Mandarin Chinese II – Grades: 9-12 Course Number: 258 A/B 2 Terms: 1.0 credit** *(Click here to return to 9th Grade Course Offerings)*

Mandarin Chinese 2 is the continuation of basic speaking, reading, and writing Mandarin Chinese. This course is designed for those who have taken Chinese 1 (in middle school) or who have the equivalent knowledge and skills. Students will further develop their vocabulary and basic character skills. **This class will meet 1.0 credit of the World Language requirement.**

**Mandarin Chinese III – Grades: 9-12 Course Number: 259 A/B 2 Terms: 1.0 credit**

This intermediate course is the continuation of Chinese 2, with additional and more complex grammar structures. Students will transition into understanding and speaking Chinese through commonly used structures. The use of previously taught vocabulary gives students a wide variety of topics for communication. Students will also continue their learning of simplified Chinese characters, advancing to more complicated characters throughout the year. **This class will meet 1.0 credit of the World Language requirement.**

**Mandarin Chinese IV- Grades: 9-12 Course Number: 260 A/B 2 Terms: 1.0 credit**

This advanced course is the continuation of Chinese 3 and attempts to develop fluidity in speaking, listening, reading and writing in mandarin Chinese. Students will enhance their ability to communicate effectively and properly in various real-life situations, learn complex grammatical structures, and increase vocabulary using a significant number of characters. **This class will meet 1.0 credit of the World Language requirement.**

**Mandarin Chinese V - Grades: 9-12 Course Number: 263 A/B 2 Terms: 1.0 credit**

This advanced course is the continuation of Chinese 4 and focusing on application. **This class will meet 1.0 credit of the World Language requirement.**

**Academic Offerings** - [Click here to return to Academic Offering Table of Contents](#)

**Spanish I - Grades: 9-12 Course Number: 251 A/B 2 Terms: 1.0 credit** *(Click here to return to 9th Grade Course Offerings)*

Course content will include Spanish speaking, listening, reading and writing, cultural aspects of Spanish speaking countries, useful vocabulary and expressions, and grammar. Students will first repeat fundamental sounds, then words and phrases, and finally be able to formulate complete original sentences. Students will participate in a variety of speaking and writing activities and projects. **This class will meet 1.0 credit of the World Language requirement.**

**Spanish II - Grades: 9-12 Course Number: 252 A/B 2 Terms: 1.0 credit** *(Click here to return to 9th Grade Course Offerings)*

**Pre-Requisite:** Successful completion of Spanish I

**Recommendation:** B- or better in Spanish I

Course content will include the study of Spanish speaking, reading, listening and writing, grammar, vocabulary, and the cultural aspects of Hispanic heritage. Activities will include a weekly journal, a monthly paper, and creative sketches. **This class will meet 1.0 credit of the World Language requirement.**

**Spanish III – Grades: 10-12 Course Number: 253 A/B 2 Terms: 1.0 credit**

**Pre-Requisite:** Successful completion of Spanish II

**Recommendation:** B- or better in Spanish II

Course content will include cultural readings, advanced grammar structures, and vocabulary. Activities will include short story discussions, the reading of a novel in Spanish, and creative sketches. Spanish reading skills will be developed extensively. **This class will meet 1.0 credit of the World Language requirement.**

**Spanish IV – Grades: 11-12 Course Number: 254 A/B 2 Terms: 1.0 credit**

**Pre-Requisite:** Successful completion of Spanish II

**Recommendation:** B- or better in Spanish III

This class is intended for students who wish to develop proficiency and integrate Spanish language skills, using authentic materials and sources. Students who enroll should already have a basic knowledge of the language and cultures of Spanish-speaking peoples and should have attained proficiency in using the language. **This class will meet 1.0 credit of the World Language requirement.**