



## **High School Curriculum and Course Selection Guide 2025-2026**



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## **Vision Statement**

“L’Anse Creuse...A community where all people work together so that everyone succeeds.”

## **Board of Education Members**

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### **STATEMENT OF ASSURANCE OF COMPLIANCE**

#### **WITH THE FAMILY, EDUCATION RIGHTS AND PRIVACY ACT OF 1974 (FERPA)**

L’Anse Creuse Public Schools will comply with federal and state laws relating to The Family Educational Rights and Privacy Act of 1974, giving parents the right to inspect and review all official records, files and other information about their children. Student information will be released only with written consent of the parent.

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## Introduction

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L’Anse Creuse high schools offer a well-rounded curriculum that provides opportunities to meet the needs of all students. As standards and expectations for students continue to increase, this document represents an effort to respond to the many reports and studies that call for increased accountability for students and schools. As a community, we must expect a greater commitment to school achievement to enhance our students’ futures.

We hope that each student’s four years of high school will be a time of exploration, challenge, goal setting, fulfillment, and planning for the future. This document has been designed to help guide students through this process.

Planning a four-year high school program is a serious undertaking. Although many courses will be determined by the educational plan selected, there are still many other choices to make during the high school years. Indecision about a career is normal at this stage in life. Some students already have a specific career goal in mind, while other students have only a vague notion of their career goals. Many students will change their minds several times before settling on a final career. For this reason, it is important to plan as challenging a program as possible. If career plans change, it may be easier to transition into another program. It is important to select courses that meet an individual’s interests, but it also is valuable to explore coursework that will expand a student’s knowledge base.

During high school, one goal should be to explore the Career Pathways described in this document and determine if one might be a potential match for you. Although it is not expected that students will know their specific career choice by the time of graduation, it is beneficial to identify a potential path.

Students and parents are encouraged to read through this guidebook and discuss the options. Counselors and teachers are eager to help you by making suggestions and recommendations as they apply to the specific pathways. By working together, students, parents, teachers, and counselors can help make the high school years a great experience.

Students also have many opportunities to build upon their classroom experiences by participating in extracurricular activities, like athletics, clubs, or other organizations. These activities help students foster creativity, leadership, and teamwork, as well as develop long-lasting friendships and relationships.

**Alysia Samborsky – Principal**

L’Anse Creuse High School

**Meredith Beard – Principal**

L’Anse Creuse High School – North

**Amy Gole – Director/CTE**

Frederick V. Pankow Center

## • District Policies and Procedures

### Graduation Requirements (LCHS and LCN)

The Michigan Merit Curriculum (MMC) was developed based on the belief that all students will need post-secondary learning opportunities beyond high school. It specifies that all students who earn a diploma have demonstrated proficiency with content outlined by the state academic standards or guidelines. The following course requirements and credit hours have been set to ensure students are prepared to be successful in their years beyond high school:

Required Courses	English	Math	Science	Social Studies	Physical Educ.	Health	World Lang.	Arts*	Financial Literacy	Electives	TOTAL
Credit** Hours 2025-27	4.0	4.0	3.0	3.0	0.5	0.5	2.0	1.0	N/A	4.0	22.0
Credit** Hours 2028 beyond	4.0	4.0	3.0	3.0	0.5	0.5	2.0	1.0	0.5	4.0	22.5

\* Note that "Arts" includes Visual, Performing, and Applied Arts.

\*\*Students may take an online course, or will have an online learning experience incorporated into one or more required credits.

\*\*\* Beginning with the class of 2028 Financial Literacy standards must be met.

The graduation requirements listed below have been established at either the state or the district level:

- L'Anse Creuse High Schools are four-year schools.
- Students are required to complete four years of attendance in order to graduate.
- Each year is divided into two semesters.
- Students enroll in six classes each semester.
- Each class period per semester successfully completed equals 0.5 credit.
- A student can earn 3.0 credits per semester and 6.0 credits per school year.
- Students must have a minimum of 22.5 credits for graduation for class of 2028 and beyond.
- In content areas where four years of coursework is not required, requirements can be met at any time within the four years. For example, only three years of science courses are required, but a student might choose to take science during their 9<sup>th</sup>, 10<sup>th</sup>, and 12<sup>th</sup> grade years, and fill in electives during the 11<sup>th</sup> grade year.
- In science, Biology and Chemistry or Physics are required. Students have an option of taking certain courses that can substitute as their third science credit. For a list of these courses, refer to the charts on Pages 13 and 48.
- All students are required to take four credits of mathematics for graduation, but students have an option of taking a "math-related" course as their fourth math credit. For a list of these courses, refer to the charts on Pages 13 and 48.
- One credit of mathematics, or a math-related credit, must be taken during student's final year of high school.
- Students participating in Marching Band for **all four years** will have 0.5 credit of Physical Education waived. Students still need to take the health credit course in addition to Marching Band, per State of Michigan legislation.
- Students participating in Show Choir may have 0.5 credit of Physical Education waived for successfully completing six semesters of Show Choir.

- Algebra I, Spanish I and Spanish II taken in middle school will not be included in the GPA for high school but will be applied to graduation requirements.
- Students must complete 40 hours of Community Service Learning before May 1<sup>st</sup> of their senior year.
- All students must take all sections of the Michigan Merit Exam in order to graduate.
- Other modifications may be available with a “personal curriculum.” If necessary, students should make an appointment with their counselors to see if additional modifications are available.

## Student Responsibility for Graduation Requirements

As students plan their high school program, they should recognize that the courses taken will have a major effect on the college and career choices that will be open to them following graduation. For students planning to attend college, chances for admission to and success in particular programs will improve with a strong educational background. During the high school years, students are encouraged to try a variety of subject areas and explore the range of options that are available in order to learn more about personal abilities and preferences.

Because courses in certain areas are related to each other and increase in complexity from year to year, courses taken in ninth grade may have a significant impact on courses that can be taken in subsequent years, perhaps even courses taken in college. Students should consider their high school course selection carefully. It may be tempting to avoid “hard” courses, but facing those challenges in high school likely contribute to success in the years beyond.

### • Other Graduation Requirements

**Community Service Learning (CSL):** Students must complete 40 hours of Community Service Learning before May 1<sup>st</sup> of their senior year.

**Michigan Merit Exam (MME):** All students must take the MME in order to graduate. The MME consists of the SAT, WorkKeys, and M-STEP.

- 9<sup>th</sup> grade students will take the PSAT 9 test in preparation for the MME.
- 10<sup>th</sup> grade students may take the PSAT/NMSQT test in the fall for the purpose of qualifying for Merit Scholarship.
- 10<sup>th</sup> grade students will take the PSAT 10 test in the spring.
- 11<sup>th</sup> grade students must take all components of the MME must be taken in the spring. Students receive 0.25 credit for taking the MME and 0.25 credit for achieving a level of Advanced or Proficient.

## Graduation Requirements (DiAnne M. Pellerin Center)

The Michigan Merit Curriculum (MMC) was developed based on the belief that all students will need additional learning opportunities beyond high school. The alternative education program at the Pellerin Center is designed for students who can be better served in an alternative style when delivering instruction. The alternative education program at the Pellerin Center seeks to provide added flexibility and alternative instructional models. These may include expanded services from the traditional setting such as online learning, counseling, and transportation; in an effort to help students overcome barriers and meet the goals of the Michigan Merit Curriculum.

Required Courses	English	Math	Science	Social Studies	Physical Educ.	Health	World Lang.	Arts	Financial Literacy	TOTAL
Credit** Hours 2025-27	4.0	4.0	3.0	3.0	0.5	0.5	2.0	1.0		18.0
Credit** Hours 2028 beyond	4.0	4.0	3.0	3.0	0.5	0.5	2.0	1.0	0.5	19.0

**\*\*Students may take an online course, or will have an online learning experience incorporated into one or more required credits.**

The graduation requirements listed below have been established at either the state or the district level:

- Each year is divided into four quarters.
- Each class period per quarter successfully completed equals 0.25 credit.
- A student can earn 6.0 credits per school year.
- Students must have a minimum of 18.0 credits for graduation.
- In content areas where four years of coursework is not required, requirements can be met at any time within the four years. For example, only three years of science courses are required, but a student might choose to take science during their 9<sup>th</sup>, 10<sup>th</sup>, and 12<sup>th</sup> grade years, and fill in electives during the 11<sup>th</sup> grade year.
- In science, Biology and Chemistry or Physics are required. Students have an option of taking certain courses that can substitute as their third science credit. For a list of these courses, refer to the charts on Pages 13 and 48.
- All students are required to take four credits of mathematics for graduation, but students have an option of taking a “math-related” course as their fourth math credit. For a list of these courses, refer to the charts on Pages 13 and 48.
- One credit of mathematics, or a math-related credit, must be taken during student’s final year of high school.
- All students must take all sections of the Michigan Merit Exam in order to graduate.
- Other modifications may be available with a “personal curriculum.” If necessary, students should make an appointment with their counselors to see if additional modifications are available.

## **Opportunities for Early College Credit**

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The need for higher education has never been more important. We are now in a global economy, competing with workers from around the world. Most experts agree that at least two years of education beyond high school should be considered for every person who hopes to occupy a job that pays a wage that will comfortably cover normal living expenses. All L’Anse Creuse Public School students are encouraged to attend at least two years of post-high school education.

There are several ways students can begin to earn college credits while still in high school:

### **Advanced Placement (AP) Exams**

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The College Board provides examinations in the spring of each year. If a student scores well enough on the exam, he or she may earn credit. The number of credits and the area in which they are granted varies depending on the college. Students who are interested in pursuing this route should enroll in the most rigorous program of study beginning their freshman year, and enroll in Advanced Placement courses when the option is available to be as prepared as possible to take the AP exams.

### **College Level Examination Program (CLEP)**

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CLEP provides opportunities for any competent and serious student who is trying to earn college credit by taking an exam. There are a number of different CLEP exams offered throughout the year in various locations. If you are interested, you should enroll in the most rigorous program available, and you should see your counselor for CLEP opportunities in this area. CLEP exams must be taken before the student enters college. There are no specific courses that students must complete to take a CLEP test.



## Dual Enrollment

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In an effort to meet students' needs and interests, school districts have historically allowed their students to take courses at local colleges or universities in addition to their own high school. This is called "dual enrollment." Under certain circumstances, juniors and seniors may be eligible for some tuition credit through the district's dual enrollment program. Prior to their junior year, students will receive a letter describing the conditions. In addition, a few very capable students with qualifying grade point averages and letters of recommendation may earn college tuition scholarships through Macomb Community College. Counselors initiate this process in the spring of each year for the qualifying juniors and seniors.

The State Aid School Act contains a provision that directs school districts to assist students in the paying of tuition and fees for courses at Michigan public or private colleges or universities, if all of the following conditions are met:

- **Academic Dual Enrollment:** To participate in dual enrollment, students are eligible in the areas in which they have successfully completed the required standardized test with a qualifying score.
- **Career and Technical Dual Enrollment:** To participate in dual enrollment in a Career and Technical Education area, students must have achieved endorsement in all student areas of the Michigan Merit Exam (MME) or have achieved endorsement in mathematics along with a qualifying score on a nationally or industry recognized job skills assessment test as determined by the Department of Career Development.
- Students must earn minimum scores on PSAT 9, PSAT 10, or SAT to be approved.
- Students requesting to take an academic course in an area that is not tested by the MME (for example, world language, computer technology, or fine arts) must have taken all parts of the MME in order to qualify. Again, only courses **not** offered through L'Anse Creuse are eligible for tuition payment. Exceptions can be made with district approval.
- Students must be enrolled in both the school district and a post-secondary institution during the local school district's regular academic year.
- The college courses must be academic courses as opposed to "activity courses" and must be courses not offered by the district. Dual enrollment is only offered once per course. Students may retake courses at their own expense. Summer courses do not qualify for financial support.
- Underclassmen who may be interested in taking advantage of this opportunity as a junior or a senior need to plan appropriate course work.
- Students must apply to the college for admission. Proof of admission must be submitted along with a L'Anse Creuse dual enrollment application to the Assistant Superintendent for Curriculum and Instruction. Applications are available from your high school counselor. **L'Anse Creuse will not pay toward a class unless it is pre-approved.**

Proper planning needs to be done so that all of this can be completed before the scheduled enrollment periods at the college. Your high school counselor can be very helpful to you in this process. A student who does not meet the above criteria may still be eligible for enrollment at the college but he or she will have to pay the entire cost of tuition and fees.

Additional notes for students accepted into the dual enrollment program are:

- Students must provide their own transportation to and from the college.
- Students may have books paid for if there is money left over from the allowance.

- Eligible students can take up to three classes per semester, however students must reduce their high school class load by one high school class for each class they take in college.
- Summer courses do not qualify.
- Students will receive 0.5 high school credit per college course passed.
- If a student drops a course beyond the time during which the college will refund the school district or does not successfully pass a course, the student is responsible for repaying the school district for the course.

## **Early College of Macomb (ECM)**

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Early College is an opportunity for students to earn an Associate's Degree or Liberal Arts credits at the university level while still in high school. Students participate in Early College during their 11<sup>th</sup> and 12<sup>th</sup> grade years. In a 13<sup>th</sup> year, during which they complete their program, they have dual status as both a high school student and a college student. Student may also choose to obtain professional certification or registered apprenticeship program.

Macomb Community College typically releases information on the program at the end of each calendar year. Applications may be completed by current 10<sup>th</sup> grade students and submitted in January or early February. This is a big commitment, and interested students should attend the informational meeting at Macomb Community College and discuss their intended path with their counselor to be sure it is a good fit.

## NCAA Eligibility

Students who are interested in competing in Division I or Division II athletics at the college level should review information provided at the NCAA website:

<https://web3.ncaa.org/ecwr3/>

- **Academic Standards for Eligibility**

The NCAA Eligibility Center has established certain academic requirements for participation in college athletics. The following website provides a summary of those minimum standards:

<https://www.ncaa.org/student-athletes/future/academic-standards-initial-eligibility>

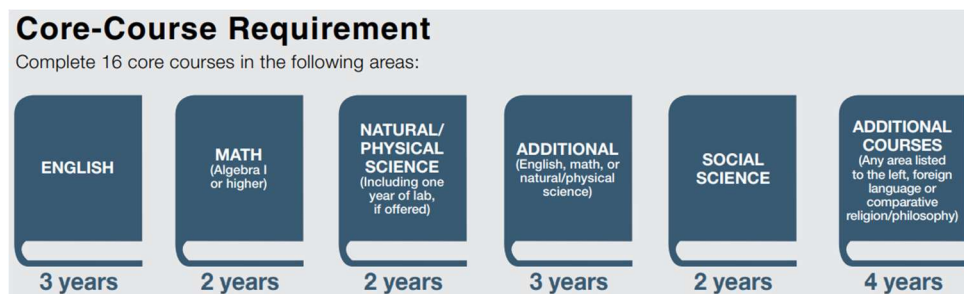
- **Core Courses**

Participation requires the completion of certain “core” courses, which are summarized briefly below:

### Division I Academic Requirements



### Division II Academic Requirements



For more information on which core courses are accepted by the NCAA, refer to the websites below:

<https://www.ncaa.org/student-athletes/core-courses>

[http://fs.ncaa.org/Docs/eligibility\\_center/Quick\\_Reference\\_Sheet.pdf](http://fs.ncaa.org/Docs/eligibility_center/Quick_Reference_Sheet.pdf)

## Grading Policies

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### Progress Reports and Report Cards

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The grading system in L'Anse Creuse is a standard A/B/C/D/F scale. The school year is divided into two 20-week semesters, and each semester is divided into two 10-week marking periods. Teachers may update student grades at any time. Official grade reporting times are as follows:

- “Mid-marking” refers to the five-week mark into each marking period. Official progress report updates will be available in PowerSchool (usually October, December, March, and May). Teachers may provide a grade range instead of a specific grade at this time.
- At the end of the first 10-week marking period of each semester, grades will be available in PowerSchool via a pdf in the parent portal (usually November and April). Teachers will provide a letter grade to indicate student progress at this time. A student's grade represents all work done in connection with a class. This may include class participation, attendance and punctuality, homework assignments and projects, formal assessments, and/or laboratory experiences.
- At the end of the second 10-week marking period of each semester, grades will be available in PowerSchool via a pdf in the parent portal (usually January and June). The report card shows the current marking period grade, the final exam grade, and the final semester grade for each course. This final semester grade represents the student's overall performance for the course and is calculated based on the two ten-week marking period grades as well as the final exam given in each course. **Note that this final grade is the only grade that will appear on a student's permanent transcript.** Individual marking period grades and final exam grades will **not** appear on a student's permanent transcript.

### Weighted Grading

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In order to provide challenging college preparatory programs for students who desire greater depth and an accelerated pace in certain content areas, L'Anse Creuse Public Schools offers a variety of courses in various content areas that may offer additional points that will be added when overall grade point averages (GPAs) are calculated. Because of this additional weighting, a student's overall GPA and ranking in the graduating class will be affected by enrolling in and successfully completing this advanced coursework.

- **Honors Courses:** In recognition of the rigorous academic standard that honors courses represent, students may add 0.25 point per semester for each course taken when calculating their overall GPAs on the four-point scale. Each honors course offered is described within the specific appropriate departmental listing and is designated the word “Honors” in the course name.
- **Advanced Placement (AP) Courses:** In recognition of the rigorous academic standard that AP courses represent, students may add 0.5 point per semester for each course taken when calculating their overall GPAs on the four-point scale. For a list of all AP courses offered in L'Anse Creuse Public Schools, refer to the “Advanced Placement (AP) Courses” section of this guidebook. Additionally, each AP course offered is described within the specific appropriate departmental listing.

## Incomplete Grades ("I")

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An "I" will be given to a student who has unfinished work at the end of a marking period due to extenuating circumstances. It is the student's responsibility to make necessary arrangements with teachers to complete any work that is incomplete. Grade changes will be done by the teacher through the counseling office. Exceptions to this policy may be permissible only in instances of prolonged illness, and a written plan must be approved by the principal prior to the end of a ten-day period.

## Failing Grades

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If a student has received a failing grade as a final semester grade, this grade is recorded on the permanent record with no credit given for the class. If the class failed is a course required for graduation, then it must be repeated. If a student fails an elective course, he or she may choose to repeat the class and recover the grade.

## Calculating Grade Point Averages (GPAs)

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A student's GPA is calculated on the 4.0 grade scale as follows:

- (1) Assign the points to each student's letter grade using the chart on the left below.
- (2) Add the total number of points warranted for each grade on the report card, and divide that by the total number of grades given.
- (3) Divide that figure by 3 to arrive at a GPA on the 4.0 scale.

An example for a student who took six classes in a typical semester is provided on the right below.

Letter Grade	Points
A+	12
A	12
A-	11
B+	10
B	9
B-	8
C+	7
C	6
C-	5
D+	4
D	3
D-	2
F	0

Example:

Letter Grade	Points
A	12
B	9
C+	7
B	9
C	6
B-	8
<b>Total Points</b>	<b>51</b>

$$\begin{aligned} 51 \div 6 &= 8.50 \\ 8.50 \div 3 &= 2.83 \\ \text{Sem. GPA} &= 2.83 \end{aligned}$$

NOTE: Algebra I, Spanish I and Spanish II taken in middle school will not be included in the GPA for high school but will be applied to graduation requirements

## Testing Out

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The Board of Education recognizes the need to provide alternative means by which students achieve the goals of the district.

- Any high school student who wishes to test out of a course in which he or she is not enrolled may do so by taking a comprehensive examination, or series of smaller examinations, for the course and receiving a grade of at least C+. Or, a students may demonstrate mastery of the subject matter as determined by the assessment used in lieu of a comprehensive examination.
- Credit for a course earned by a student through this process may be used to fulfill a course or course-sequence requirement and may be counted toward the required number of credits for graduation. The grade on the assessment will not be used to determine the student's GPA.
- Testing out examinations typically occur prior to the first semester and in the month of January, prior to the second semester. **Students who wish to test out of a course must make their intentions known at least six weeks before the end of the current semester.** Students interested in pursuing the testing out option for the upcoming school year should see a counselor to be apprised of deadlines for applications. Students must use the district examination for the course.

## Transfer Student Requirements

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A student transferring to L'Anse Creuse Public Schools must satisfy all requirements for graduation as specified by the L'Anse Creuse Board of Education. Comparable coursework taken at a previous school will be evaluated, and appropriate credit will be applied toward the L'Anse Creuse graduation requirements. A placement test may be taken for advanced placement and honors courses.

## Standardized Tests

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Standardized tests are designed to be objective measures. They assess students based on a similar set of questions, are given under nearly identical testing conditions, and often are scored electronically to reduce potential bias. They are intended to provide an accurate, unfiltered measure of what a student knows. In order to accurately assess student progress, L'Anse Creuse Public Schools will use a variety of assessments at different grade levels. At the high school level, the following tests are utilized:

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

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- **District-level common assessments**
- **PSAT 9** (spring)
  - Reading, Math
- **NWEA** (3 test sessions per year: fall, winter, spring)
  - Reading, Language, Math, Science

### 10<sup>th</sup> Grade

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- **District-level common assessments**
- **PSAT 10** (spring)
  - Reading, Math
- **NWEA** (3 test sessions per year: fall, winter, spring)
  - Reading, Language, Math, Science
- **PSAT/NMSQT** (fall) – This is an *optional* test for which students must pre-register. However, it is **required for any student who wishes to be considered for the National Merit Scholarship Program**. Interested students should sign up in the counseling office.
  - Reading, Writing, Math

### 11<sup>th</sup> Grade

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- **District-level common assessments**
- **MME** (spring)
  - SAT with writing, WorkKeys, M-STEP (Science and Social Studies)
- **PSAT/NMSQT** (fall) – This is an *optional* test for which students must pre-register. However, it is **required for any student who wishes to be considered for the National Merit Scholarship Program**. Interested students should sign up in the counseling office.
  - Reading, Writing, Math

### 12<sup>th</sup> Grade

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- **District-level common assessments**

# Community Service Learning

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Community Service Learning offers students experiences, which may provide:

- Application of classroom learning
- Awareness of career opportunities
- Understanding of their roles in society and their civic responsibility

Community service is service without pay to a non-profit agency or organization, an individual, or a group in need. Community service requirements for graduation are listed below:

1. Students must complete 40 hours of service and a reflection questionnaire **before May 1<sup>st</sup> of their senior year**. Service may begin the summer prior to a student's freshman year.
2. For students enrolled after the first semester of their freshman year, the requirement will be prorated to equal five hours times the number of semesters enrolled in L'Anse Creuse Public Schools.
3. Service must be performed outside of school hours.
4. All community service must be from non-profit organizations or be pre-approved by the Community Service Learning Coordinator.
5. Childcare/babysitting counts only when done for a non-profit organization.
6. Helping family members is not considered community service.

For many years, L'Anse Creuse Public Schools, has had Board of Education approved criteria for what type of service counts as community service for graduation. Unless any future State of Michigan requirement exceeds L'Anse Creuse Public Schools requirements, we will continue to use the six criteria above. Students transferring to L'Anse Creuse Public Schools with previous community service hours earned will be subject to the requirements listed in criteria #2.



## Senior Honors Project

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Any senior who has at least a 3.0 overall GPA and is earning at least a B in all courses is eligible to submit a proposal for a Senior Honors Project. Students who have their proposals accepted must continue to carry at least a B in all courses to be able to participate in the Senior Honors Project.

Interested students would begin in January to plan their Senior Honors Project and complete documents that must be provided according to the timeline. Seniors doing a project will be released from school at the beginning of May to work on their project. Work continues throughout the month of May, and the commitment to the project is 30 hours per week for three weeks. No pay can be accepted by the student for this experience.

A student who plans and executes a successful Senior Honors Project from the experience in many ways, including:

- Obtaining valuable references for the future
- Interacting in an adult environment
- Participating in an interview experience
- Expressing ideas clearly and succinctly
- Exploring a career field to gain insights into the nature of the work
- Gaining great personal satisfaction in organizing and completing a project successfully

Students should make an appointment to see their counselors if they are interested in participating in the Senior Honors Project.

## Career Planning

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The four years of high school can be an exciting and rewarding time for students. A very important component in preparing for the future involves career planning. Preparing for future educational and career opportunities involves a great deal, and students who are prepared to make these decisions often are more successful than those who lack a sense of direction.

There are many factors that determine success in high school. It is important for students to have a focus so they can make the most of the opportunities that lie before them. Parents, counselors, and teachers play key roles in guiding students through the many challenges that they encounter. It is important to plan early and establish goals.

Participation in a well-organized, well-planned career development component directly affects both readiness for employment and actual employment success. Student performance in school improves, involvement in school and community activities expands, decision-making skills are strengthened, career preparation advances, and flexibility for meeting changes increases. In addition, students who continue formal education beyond high school have a clear direction and a better understanding as to why they are pursuing post-secondary education and training options. Students more readily recognize that learning is a life-long process.

To assist students in planning wisely, L'Anse Creuse Public Schools uses the Michigan Career Development Model as their framework. Students will update their Educational Development Plan (EDP) annually through *Xello*. By doing so, they will research and plan their future course work to align with potential career interests.

The following link provides full access to the Michigan Career Development Model:

[https://www.michigan.gov/mde/-/media/Project/Websites/mde/CTE/Tool-kits/MI\\_Career\\_Development\\_Model\\_-\\_Dec\\_18\\_2018\\_641266\\_7.pdf?rev=248c9cab6cb74215900af642f10f6387](https://www.michigan.gov/mde/-/media/Project/Websites/mde/CTE/Tool-kits/MI_Career_Development_Model_-_Dec_18_2018_641266_7.pdf?rev=248c9cab6cb74215900af642f10f6387)

The following link provides in-depth information about an EDP:

[https://www.michigan.gov/mde/-/media/Project/Websites/mde/CTE/cte\\_instructional/EDP\\_Fundamentals\\_Guide\\_703180\\_7.pdf?rev=9bdcc2875d9041829332997d236d303d&hash=62EA7C312F4766457BC1CCFED721D14D](https://www.michigan.gov/mde/-/media/Project/Websites/mde/CTE/cte_instructional/EDP_Fundamentals_Guide_703180_7.pdf?rev=9bdcc2875d9041829332997d236d303d&hash=62EA7C312F4766457BC1CCFED721D14D)

The Occupational Information Network (O\*NET) is a resource that assists students in their career exploration. O\*NET is developed under the sponsorship of the U.S. Department of Labor/Employment and Training Administration. O\*NET is the nation's primary source of occupational information and is used by millions of individuals every year. The data from O\*NET has proven vital in helping people find the training and jobs they need, and employers the skilled workers necessary to be competitive in the marketplace.

The following link provides full access to O\*NET:

<https://www.onetcenter.org/overview.html>

## Graduation Requirement Substitutions (LCHS and LCN)

Some graduation requirements can be modified to help students achieve personal goals. Refer to the chart below to determine which high school courses can be used to satisfy specific requirements.

High School Course Offerings	Course Credit	Advanced Sections Available	Visual / Perform. Arts	PE	Financial Literacy	2 <sup>nd</sup> credit World Lang.	3 <sup>rd</sup> credit Science	4 <sup>th</sup> credit Math*	4 <sup>th</sup> credit English*
Drawing	0.5	X	X			X			
Design	0.5	X	X			X			
Painting	0.5	X	X			X			
Pottery and Sculpture	0.5	X	X			X			
Ceramics	0.5	X	X			X			
Fiber Arts	0.5	X	X			X			
Jewelry	0.5	X	X			X			
Comic Illustration	0.5	X	X			X			
Photography	0.5	X	X			X			
Business Law and Your Rights	0.5		X			X			
Small Business Accounting	0.5		X			X		X	
Personal Financial Planning	0.5	X	X		X	X		X	
Financial Algebra (1 <sup>st</sup> semester)	0.5				X				
Microsoft Office Suite	0.5		X			X			
Intro to Marketing	1.0		X			X		X	
Entrepreneurship	0.5		X			X		X	
Sports and Entertainment Marketing	0.5		X			X		X	
School-Based Enterprise	0.5	X	X			X		X	
English 12	0.5 / 1.0								X
African American Literature	0.5								X
Acting**	0.5	X	X			X			X
Journalism	0.5		X			X			X
Writing for Publications	0.5								X
Speech	0.5								X
Creative Writing	0.5								X
Publications	1.0								X
Debate	0.5								X
AP English Language and Composition	1.0								X
AP English Literature and Composition	1.0								X
Technology Education (Modular Technology)	0.5		X			X		X	
AP Computer Science Principles	1.0		X			X		X	
Food and Nutrition	0.5		X			X		X	
Child Development	0.5		X			X			
Gourmet Cooking	0.5		X			X		X	
Independent Living	0.5		X			X		X	
Freshman Band	1.0		X			X			
Wind Symphony	1.0		X			X			
Symphony Band	1.0		X			X			
Jazz Band	1.0		X			X			
Marching Band	Extra-Curr		X	4 yrs. = 0.5		X			
AP Music Theory	1.0		X			X			
Ensembles / Sectionals – Vocal	1.0		X			X			
Show Choir	1.0		X	X		X			
Concert Choir	1.0		X			X			
Anatomy and Physiology	1.0						X		
Forensic Science A	0.5						X		
Forensic Science B	0.5						X		
Environmental Science	0.5						X		
Earth and Space Science – Astronomy	0.5						X		
AP Biology	1.0						X		
AP Chemistry	1.0						X		
AP Environmental Science	1.0						X		
AP Physics 1	1.0						X		

\*4<sup>th</sup> Credit of Math and 4<sup>th</sup> Credit of English can only be earned in 12<sup>th</sup> grade.

\*\* Not all colleges accept Acting courses as English credits.

## Course Descriptions

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Descriptions of all high school course offerings in L'Anse Creuse Public Schools begin below and continue on the pages that follow. Courses are organized by department, and departments are listed alphabetically.

### Art

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The Art Departments at L'Anse Creuse High School, High School – North, and the Pankow Center offer a rich and diverse art education. There are multiple strands within this department: Drawing, Design, Sculpture, Painting, Ceramics, Fashion Jewelry, Fiber Arts, Comic Book Illustration, Photography, Studio Lab Assistant, Directed Study, and Graphic Arts & Design Technology. In addition to the strands, there are opportunities for students to pursue advanced studies independently and work toward college credit through the AP Program. The production of art is the main objective of each strand. However, art history, criticism, and the study of aesthetics also are incorporated. There are no prerequisites for basic art classes. Students must receive a recommendation from their previous art teacher to take the advanced levels.

- **8001: Drawing**

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Grades 9-12

Credit: 0.5/semester

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This course is designed to give the student an understanding of the fundamentals of drawing (line, form, texture, perspective, value, composition) through a study of natural forms in still life and life drawing. A variety of different media will be explored, including pencil, pen and ink, felt tip, charcoal, and pastel. Recommendation for continuation of this area of study will be given by the teacher.

- **8003 / 8004: Advanced Drawing**

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Grades 9-12

Credit: 0.5/semester or 1.0/year

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**Prerequisite: Drawing.** This course offers a continuation of this area of study, upon successful completion of the basic level.

- **8041: Design**

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Grades 9-12

Credit: 0.5/semester

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This course is designed to give the student an understanding of various aspects of the elements of art and the principles of design including color, line, space, shape, value, texture, emphasis, balance, repetition and contrast. Students work in a wide variety of media with emphasis on the use of imagination and creative thinking. The combination of words, images and graphic art references are incorporated in the course. The introduction of computer applications of design with appropriate software, digital cameras, scanners, color printing and other kinds of technology will commence at the intermediate course level. Recommendation for continuation of this area of study will be given by the teacher at the end of each semester.

- **8043 / 8044: Advanced Design**

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Grades 9-12

Credit: 0.5/semester or 1.0/year

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**Prerequisite: Design.** This course offers a continuation of this area of study, upon successful completion of the basic level.

- **8161: Painting**

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Grades 9-12

Credit: 0.5/semester

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This course is designed to teach a variety of traditional and contemporary painting techniques. An introductory approach to the concepts of transparency and opaqueness as applied to watercolor, tempera, and acrylic will be the basis of the course work. The student will explore paint application, color theory and mixing paint for each media studied, canvas stretching, and preparation of a painting surface. Recommendation for continuation of this area of study will be given by the teacher at the end of each semester.

- **8163 / 8164: Advanced Painting**

Grades 9-12

Credit: 0.5/semester or 1.0/year

**Prerequisite:** **Painting.** This course offers a continuation of this area of study, upon successful completion of the basic level.

- **8191: Pottery and Sculpture**

Grades 9-12

Credit: 0.5/semester

This course is designed to give the student an experience in each of the 3-D areas. Basic pottery will explore clay through hand-building techniques such as coil and slab and also will include an introduction to the potter's wheel. Intermediate levels will continue the study of clay through a combination of techniques and sculptural methods. Advanced levels will combine clay with other media and develop more sophisticated pieces. The sculpture portion will include historical studies of artists and the exploration of 3-D forms through materials such as plaster and wood. Intermediate and advanced levels will work on a larger scale, refining their skills and using more advanced materials. Recommendation for continuation of this area of study will be given by the teacher at the end of each semester. **Available only at LCN.**

- **8211 / 8212: Advanced Pottery and Sculpture**

Grades 9-12

Credit: 0.5/semester or 1.0/year

**Prerequisite:** **Pottery and Sculpture.** This course offers a continuation of this area of study, upon successful completion of the basic level. **Available only at LCN.**

- **8201: Ceramics**

Grades 9-12

Credit: 0.5/semester

Basic Ceramics deals with an exploration of clay through techniques in pinch, coil, slab, and combination methods of construction. Intermediate pottery is a continuation of the study of pottery through the development of forms, including sculptural techniques in clay. Intermediate students are introduced to the wheel and continuation of handbuilding techniques. Advanced and Advanced & Continuing Pottery are an in-depth study of both hand-built and wheel-thrown techniques, and students will develop a knowledge of glaze and kiln technology. Recommendation for continuation of this area of study will be given by the teacher at the end of each semester. **Available only at LCHS.**

- **8213 / 8214: Advanced Ceramics**

Grades 9-12

Credit: 0.5/semester or 1.0/year

**Prerequisite:** **Ceramics.** This course offers a continuation of this area of study, upon successful completion of the basic level. **Available only at LCHS.**

- **8401: Fiber Arts**

Grades 9-12

Credit: 0.5/semester

This course is designed to teach a variety of fiber arts techniques including weaving, batik, trapunto, felting, sewing, and silk-screening in combination with other appropriate three-dimensional techniques and a variety of complimentary materials. Emphasis is placed on creative design compositions based on organic, natural forms, and/or geometric shapes. Recommendation for continuation of this area of study will be given by the teacher at the end of each semester.

- **8403 / 8404: Advanced Fiber Arts**

Grades 9-12

Credit: 0.5/semester or 1.0/year

**Prerequisite:** **Fiber Arts.** This course offers a continuation of this area of study, upon successful completion of the basic level.

- **8281: Jewelry**

Grades 9-12

Credit: 0.5/semester

**Prerequisite:** **Students need to have excellent fine motor skills and need to be comfortable using machines and torches.** Basic Jewelry deals with basic techniques in sawing, soldering, fabrication, and the casting of small-scale pieces. Intermediate Jewelry is a continuation and application of previously learned concepts. Increased complexity of techniques, such as stone-setting, will be included. Advanced and Advanced & Continuing Jewelry stresses more complex techniques with emphasis on skill development, self-discipline, and motivation. Recommendation for continuation of this area of study will be given by the teacher at the end of each semester.

- **8283 / 8284: Advanced Jewelry**

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Grades 9-12

Credit: 0.5/semester or 1.0/year

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**Prerequisite: Jewelry.** This course offers a continuation of this area of study, upon successful completion of the basic level.

- **8291: Comic Illustration**

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Grades 10-12

Credit: 0.5/semester

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This course is designed to introduce students to techniques prevalent in the comic industry. The course covers penciling, inking, and watercolor techniques. Assignments include character design, comic book covers, comic strips, and splash pages.

**Available only at LCN.**

- **8293 / 8294: Advanced Comic Illustration**

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Grades 10-12

Credit: 0.5/semester or 1.0/year

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**Prerequisite: Comic Illustration.** This course offers a continuation of this area of study, upon successful completion of the basic level. **Available only at LCN.**

- **8371: Photography**

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Grades 9-12

Credit: 0.5/semester

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**Prerequisites: Successful completion of any high school art class, and access to a manual/automatic 35mm camera.** Basic Photography is an introductory course designed to teach the basic fundamentals of photography, camera adjustment, film variation, film processing, and darkroom printing. Intermediate Photography is a continuation of the basic course in which the student is expected to perfect camera and darkroom techniques. Computer applications of photography will be introduced at this level.

- **8373 / 8374: Advanced Photography**

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Grades 9-12

Credit: 0.5/semester or 1.0/year

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**Prerequisite: Photography.** This course offers a continuation of this area of study, upon successful completion of the basic level.

## **Business**

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All students should have a general understanding of how the American economy operates and the role business plays in the economic well-being of this country. No student can function in today's society and escape the need for the life-long lessons that are taught in the business education curriculum. Business education has provided the direction and impetus for millions of students to work in corporations and small business or to start their own business ventures. All citizens must be able to participate in a global competitive economy. Business education provides the necessary tools to become a valued and informed consumer in a dynamic world.

- **6411: Business Law and Your Rights**

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Grades 9-12

Credit: 0.5/semester

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Want to know your rights? Have you had a legal conflict? Do you know the laws for business, consumers and minors? Business Law and Your Rights will assist you in the prevention of legal conflicts. Possible legal conflicts could include your rights in: automobile and home purchases; rental property agreements; home, health, and automobile insurance contracts; traffic violations and accidents; and lawsuits (the court system procedures).

- **6301: Small Business Accounting**

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Grades 10-12

Credit: 0.5/semester

Ever dream of owning your own business or getting a college degree in business (such as, accounting, finance, marketing, management, computer science, or entrepreneurship)? Then this course is for you. Accounting is the language and foundation of business. This course includes an introduction to accounting practices for a business with one owner (sole proprietor). Topics include journals, ledgers, checking, trial balances, and financial statements. **Available only at LCN.**

- **6511: Personal Financial Planning**

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Grades 10-12

Credit: 0.5/semester

**Meets Financial Literacy requirement.** This course is designed to give students a basic overview of how economics impacts their lives, as well as provide them with effective tools to promote financial well-being. Students will learn how to plan their careers and pay for post-secondary education or training. Students also will create a budget, set financial goals, learn how to use credit wisely, and research investment strategies. Lastly, students will learn how to protect their finances, secure a primary residence, and plan for retirement.

- **6501: Advanced Personal Financial Planning**

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Grades 10-12

Credit: 0.5/semester

**Prerequisite: Personal Financial Planning.** Students need financial knowledge to ensure they make the best financial decisions. Whether it is completing transactions for daily use or analyzing investments for their future, students must understand how to use resources to develop economic growth. Topics will include investments, taxes, insurance, and retirement. **Available only at LCHS.**

- **6051: Microsoft Office Suite**

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Grades 9-12

Credit: 0.5/semester

This course is a must for college-bound students. Make every class easier and the quality of your work higher by learning Microsoft Office. Skills include creating and editing documents; cropping, rotating and enhancing photos; generating graphs and charts in Excel; enhancing presentations with graphics, animation, and photos. Learn tips on the best way to search the internet. All work is done in class.

- **6831 / 6832: Intro to Marketing**

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Grades 10-12 (LCHS) / Grades 9-12 (LCN)

Credit: 1.0/year

This class is designed for students who are interested in careers in marketing, management and business ownership. The purpose of this course is to provide students with the fundamental principles and concepts identified marketing and to develop critical thinking and decision-making skills through the application of marketing principles in these industries through projects and activities. Topics include foundations of marketing, selling, management, and careers in Marketing. In addition, students will take part in DECA, a national marketing student organization. **This is an externship-eligible program.**

- **6841: Entrepreneurship**

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Grades 10-12

Credit: 0.5/semester

Entrepreneurship introduces students to the exciting world of creating and owning their own business. Students will identify the fundamentals of business creation, identify the personal attributes needed to be a successful entrepreneur, and research various business opportunities. Topics covered include the characteristics of an entrepreneur, discovering entrepreneurial opportunities, operations, human resource, and risk management. Students will develop a hypothetical business plan. In addition, students will take part in Virtual Enterprises and in DECA, a national marketing student organization. **This is an externship-eligible program.**

- **6861: Sports and Entertainment Marketing**

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Grades 10-12

Credit: 0.5/semester

**Prerequisite: Intro to Marketing.** This class is designed for students who are interested in careers in sports and 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 & 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. **This is an externship-eligible program.**

- **6881 / 6882: School-Based Enterprise**

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Grades 11-12

Credit: 0.5/semester or 1.0/year

**Prerequisite: Intro to Marketing and teacher recommendation.** Students in this class will have the opportunity to manage and market all school store activities. The focus of this course will be the advanced studies of marketing. Students will be introduced to the theories and practices needed for successful buying, promoting, storing, displaying, and selling of all school store products. Other business functions will be introduced to enhance the course learning objectives. This class will require before and after school attendance in the operation of the school store. DECA membership available. **This is an externship-eligible program. Student will take part in DECA.**

- **6883 / 6884: School-Based Enterprise Management**

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Grades 11-12

Credit: 0.5/semester or 1.0/year

**Prerequisite: School-Based Enterprise.** In this course students acquire an understanding of the management environment through a hands-on experience at the school store. Students' responsibilities include, but are not limited to, managing employees, creating work schedules, implementing promotional activities, creating business statements, and making purchase orders for food, drinks and clothing. This class will require before and after school attendance in the operation of the school store. In addition, students will take part in DECA, a national marketing student organization. **This is an externship-eligible program.**

- **1835: Applied Communication for the Office**

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Grades 12

Credit: 0.5/semester or 1.0/year

**Prerequisite: Senior year student meets criteria and on track for graduation.** Students will learn to be efficient and effective in the workplace. This course will emphasize office skills and professional work habits; such as manage the flow of people entering the office, help organize materials and manage office tasks to facilitate a functional workspace. Students are required to maintain daily attendance, demonstrate a positive demeanor, good communication skills, and maintain confidentiality. Students will learn skills to build positive relationships and understand the role of customer service in an office environment.

- **9835/6: Teacher Cadet Experiential Learning**

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Grades 10-12

Credit: 1.00/semester or 2.0/year

**Prerequisite: Senior year student on track for graduation and volunteer experience at elementary or middle school with teacher recommendation.** This course is designed for individuals interested in becoming a teacher. During this Experiential Learning opportunity, as a "Teacher Cadet" you will work in the classroom with your mentor teacher participating in learning different aspects of teaching. Your learning may include any of the following formats: lecture, discovery, discussion, simulation, debate, observation, videotaped lessons, role-playing, problem solving, decision making, or a small group instruction experience in order to expose you to as many aspects of teaching to help prepare you for a future career as an educator. You will observe and participate in a L'Anse Creuse Public School classroom at the elementary or middle school level.



## **Michigan Merit Curriculum Requirements (4 credits)**

English 9 or Honors English 9 (1 credit)  
English 10 or Honors English 10 (1 credit)  
Two additional English courses (2 credits)

**Note:** Only 0.5 credit in Journalism,  
Speech, Drama, Acting, and Debate (as a group)  
may be counted toward the four-credit minimum.



## **Personal Curriculum Modifications Allowed**

None

The curriculum of the English Department enables students of varying interests and abilities to learn successfully. A wide variety of classes allows each student to study subject matter in which they have an interest. Reading, writing, speaking, and problem-solving are integrated in most classes.

- **1331 / 1332: English 9**

Grade 9

Credit: 1.0/year

English 9 is an overview course that requires students to explore a variety of genres including short stories, poetry, plays, myths, fiction, and nonfiction. The goals of this course are to broaden literary and cultural horizons while building up skills, such as: listening, language, reading, and writing.

- **13311 / 13312: Honors English 9**

Grade 9

Credit: 1.0/year

**Prerequisite: Teacher recommendation.** English 9 Honors is more demanding than English 9 and challenges students to improve their reading, writing, and interpretive abilities. Students will analyze and write about a variety of literature which will include genres such as poetry, short stories, myths, essays, and non-fiction. In addition, students will explore various themes prevalent in literature throughout the year and apply these themes to multiple units of instruction. Students will study grammar and how to use a wide range of vocabulary to enhance their academic writing. Summer reading will be assigned.

- **13411 / 13422: English 10**

Grade 10

Credit: 1.0/year

English 10 is an overview course that builds upon the skills, cultural and literary developments introduced in English 9. Students will continue their skill development in listening, language, reading, and writing while being exposed to various genres of literature including plays, poetry, short stories, nonfiction, and novels.

- **13611 / 13612: Honors English 10**

Grade 10

Credit: 1.0/year

**Prerequisite: Teacher Recommendation.** English 10 Honors is a full year course that is more demanding than English 10 and is open to those who maintain high academic standards. This course challenges students to improve their reading, writing, and interpretive skills while being exposed to a variety of literature throughout the year. Furthermore, students will interact with more complex texts and move at a more accelerated pace than in English 10. This course is recommended for students planning to take an AP English course in the future. Summer reading will be assigned and required.

- **1371 / 1372: English 11**

Grade 11

Credit: 1.0/year

English 11 is a literature course focusing on American Literature across the generations. The course is designed around thematic units focusing on short stories, poetry, nonfiction, plays, and novels. Students will be exposed to various authors spanning the decades that celebrate the complexity of the American experience.

- **1651 / 1652: AP English Language and Composition**

Grades 11-12

Credit: 1.0/year

**Prerequisite: Teacher recommendation.** The AP English Language and Composition course focuses on the development and revision evidence-based analytic and argumentative writing, the rhetorical analysis of nonfiction texts, and the decisions writers make as they compose and revise. Students evaluate, synthesize, and cite research to support their arguments. Additionally, they read and analyze rhetorical elements and their effects in nonfiction texts—including images as forms of text—from a range of disciplines and historical periods. This course will require students to read and comprehend college-level texts and to express themselves clearly in writing.

- **1031/2: ELA Essentials**

Grades 9-11

Credit: 0.5/semester

The Adolescent Accelerated Reading Initiative (AARI) is a state-wide initiative designed as a short-term, intensive intervention focused on academic literacy in order to accelerate literacy skills and critical thinking for high school students. The initiative has a strong foundation in fifty years of research that continues to grow and develop the most innovative approach for students' success. **This course provides a general elective credit only, not an English credit.**

**Available only at LCHS.**

- **1033/4: ELA Essentials C**

Grades 9-11

Credit: 1.0/year

ELA Essentials C uses the *Corrective Reading Decoding C Level Program*. This provides intensive direct instruction-based reading intervention for students who are reading below grade level. This Direct Instruction reading intervention program delivers tightly sequenced, carefully planned lessons that give struggling students the structure and practice necessary to become skilled, fluent readers and better learners. In Decoding C, the skills are divided into four principal areas: Word-Attack Skills, Selection Reading, Fluency Assessment, and Workbook Exercises. Students are placed in this course based on testing. **This course provides a general elective credit only, not an English credit.**

- **1035/6: ELA Essentials B1/2**

Grades 9-11

Credit: 1.0/year

Reading Essentials B uses the *Corrective Reading Decoding B2 Level Program*. This provides intensive direct instruction-based reading intervention for students who are reading below grade level. This Direct Instruction reading intervention program delivers tightly sequenced, carefully planned lessons that give struggling students the structure and practice necessary to become skilled, fluent readers and better learners. In Decoding B2, the skills are divided into five principal areas: Word-Attack Skills, Group Reading, Individual Reading Checkouts, Workbook Exercises and Mastery Tests. Students are placed in this course based on testing. **This course provides a general elective credit only, not an English credit.**

- **1381 / 1382: English 12**

Grade 12

Credit: 0.5/semester or 1.0/year

English 12 is designed as an extension of underclassmen courses. This course will expand and polish reading, writing, research, technology, listening, viewing, and speaking skills. Active reading strategies and higher order/critical thinking skills will be utilized to analyze and interpret reading selections. Students will develop a world perspective of literature by analyzing classic to contemporary texts in a variety of genres. The students will demonstrate proficiency of the writing process through persuasive, comparison, opinion, and narrative writing.

## 1661 / 1662: AP English Literature and Composition

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Grade 12

Credit: 1.0/year

**Prerequisite:** Successful completion of AP English Language and Composition (preferred), teacher recommendation, or by special permission. AP English Literature and Composition engages 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 effectiveness in writing. Summer work is required. Upon successful completion each semester, students will have 0.5 honor point added to their grade. For more information, refer to the "Advanced Placement (AP) Courses" section.

- **T001: African American Literature**

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Grades 11-12

Credit: 0.5/semester

This course is a concentrated study of African American authors, poets, activists, playwrights, journalists, and filmmakers. It will improve students' overall understanding of the scope of work produced by African Americans that elevates the African American experience across six literary periods, but with greater attention to contemporary writers: Unit 1 – Colonial Period (1746-1800); Unit 2 – The Antebellum Period (1800-1865); Unit 3 – The Reconstruction Period (1865-1900); Unit 4 – The Harlem Renaissance (1900-1940); Unit 5 – Protest Movement (1940-1959); Unit 6 – Modern and Contemporary (1960-present).

- **1251: Acting**

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Grades 10-12

Credit: 0.5/semester

This course combines performance with literary analysis. Students will explore acting techniques, stage movement, pantomime, monologues, improvisation, mask construction, puppetry, and set design. Students will study theatre history and comedic and dramatic texts, analyzing themes and character development while enhancing their reading and writing skills. Through creative projects, performances, writing, and evaluation, students will develop their abilities as both actors and literary critics, bringing stories to life on stage. **Seniors can earn English credit for this class. This class may not be accepted by certain colleges as an English credit. Available only at LCN.**

- **1253 / 1254 Advanced: Acting**

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Grades 10-12

Credit: 0.5/semester or 1.0/year

**Prerequisite:** English: Acting, or teacher recommendation. Building on foundational skills from English: acting, this advanced course delves deeper into acting techniques, including advanced characterization, script analysis, and ensemble work. Students will explore complex performance styles, such as physical theatre, mask work, and devised theatre, while honing their skills in set design and technical theatre. A deeper study of theatre history will connect past innovations to contemporary practices. Through challenging projects, in-depth literary analysis, and polished performances, students will refine their craft as both skilled performers and insightful critics. **Seniors can earn English credit for this class; please note that this class may not be accepted by certain colleges as an English credit. Available at LCN only.**

- **1141: Journalism**

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Grades 9-12

Credit: 0.5/semester

This class is open to students with good writing skills who are interested in learning print journalism techniques in preparation for joining the yearbook staff. Students will study straight news, feature writing, interview techniques, layout, design, etc. There will be numerous writing assignments. Creating newspaper layouts and desktop publishing also will be part of the course.

- **1201: Speech**

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Grades 11-12

Credit: 0.5/semester

This class focuses on developing an understanding of informal and formal public address. Students will master the fine points of delivering a speech and study units including the communication process, preparing and organizing a speech, verbal and nonverbal communication, active listening, and the delivery of speeches such as the informative, the demonstrative, and the eulogy.

- **1111: Creative Writing**

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Grades 11-12

Credit: 0.5/semester

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**Prerequisite: Teacher recommendation.** Imaginative writing may include daily journals, poetry, sketches, personal narratives, short stories, drama, and a portfolio project of revised and illustrated works. Oral reading of assignments and peer group editing will be required as well.

- **1181 / 1182: Publications**

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Grades 10-12

Credit: 1.0/year

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**Prerequisite: Teacher recommendation.** This course requires the preparation of all materials for the school's yearbook using desktop publishing software. Each staff member will be required to meet deadlines, as well as be involved in ad sales and actual sale of yearbooks. After-school work may be required. **This class is NOT accepted by NCAA Eligibility Center.**

- **1221: Debate**

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Grades 11-12

Credit: 0.5/semester

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**Prerequisite: A grade of "C" or higher in Speech.** A semester of debate will enhance the interested student's public speaking, argumentation, and reasoning skills. The course will deal with such principles as research of a topic, preparation of the argument, refutation, rebuttal, and case analysis. Outside-of-class library research is required. **Available only at LCN.**

- **1731 / 1732: English – College and Career Literacy**

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Grade 11

Credit: 1.0/year

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College and Career Literacy is a class specifically focused on literacy enrichment, which gives the student the essential skills needed to prepare for the SAT and for college and career. Course objectives include, but are not limited to:

- Employing multiple strategies to construct meaning (vocabulary usage and study, analyzing mood and tone for the genres, etc.) to enhance the ability for success on the SAT and in college and career
- Reading and comprehending general and technical material
- Learning usage and mechanics for college, career, and SAT
- Enhancing rhetorical skills of strategy, organization, and style for all types of writing for tests, college applications, and real-world situations
- Practicing different types of study habits and skills for the needs of the individual student
- General elective credit only (not an English credit)

## Industrial Technology

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The mission of this department is to provide an opportunity for experience within the field of industry and technology which does three things: (1) introduces students to the most advanced technological systems at our disposal; (2) teaches students to use technology systems within the processes which define contemporary industry (Communications, Production, Power/Energy, Transportation, and Bio-Technology); and (3) inspires students to strive for educational achievement as well as enrichment.

Each course listed will receive 0.5 credit per hour each semester. Students may take as many semesters as they would like in each course except as noted in the course descriptions. Each course is a multi-level class open to all students and all grade levels except video. Each student will work at his or her level of experience. No prerequisites are required as a condition of enrollment. However, students who strive for good reading, writing, math, and analytical skills are likely to glean the greatest benefit from these classes.

**Successful completion of Industrial Technology classes may be used toward fulfilling the high school graduation credit requirements of Visual, Performing, or Applied Arts, or as an elective credit.**

- **7701: Technology Education (Modular Technology)**

Grades 9-12

Credit: 0.5/semester

This course is an introduction to basic principles of design, manufacturing, engineering, construction, transportation, systems and controls. Students learn from computer-based curriculum and instructor led discussions. Each unit (module) contains a hands-on application project to reinforce the concepts covered in the curriculum. Units include, but are not limited to, computer software skills, 3-D computer aided drafting (CAD), computer programming, engineering, model race car design, Computer Numerical Controlled (CNC) machining, electricity, and graphic design. **This course may be taken for two non-consecutive semesters. Directed study is an available option with instructor approval. Available only at LCHS.**

## Leadership

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- **1741 / 1742: Leadership A**

Grade 10-11

Credit: 0.50/1.0 year

**Prerequisite: Teacher recommendation.** This course will emphasize leadership and facilitation skills. Students will be required to learn and teach specific concepts to freshman and/or sophomore students. These concepts include personal responsibility, managing school requirements, goal setting, and social involvement in high school. Students in this class will learn activities and lessons to teach these skills during the advisory period. **Available only at LCHS.**

- **1751 / 1752: Leadership B**

Grade 12 (LCN) 11,12 (LCHS)

Credit: 0.50/1.0 year

**Prerequisite: Application and teacher recommendation LCHS Only: 11<sup>th</sup> grade required to take Leadership A.** This course will emphasize leadership and facilitation skills. Students will be required to learn and teach specific concepts to freshman and/or sophomore students. These concepts include personal responsibility, managing school requirements, goal setting, and social involvement in high school. Students will participate in activities and lessons to teach these skills during the advisory period.

## Life Management

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The goal of the Life Management Department is to teach the practical art of managing and improving one's personal and family life. In each class, the basic skills of reading, writing, math, science, and social science concepts are given tangible meaning. In a meaningful way, students can realize that day-to-day living requires basic skills mastery and inter-disciplinary knowledge. In other words, it gives practicality to the student's academic education. Other practical skills that students learn include organization, time management, cooperative group work, and following directions. Because the Life Management classes are activity classes, these classes can help reduce the stress that a student may encounter from a straight academic schedule.

**Successful completion of Life Management classes may be used toward fulfilling the high school graduation credit requirements of Visual, Performing, or Applied Arts, or as an elective credit.**

- **7391: Food and Nutrition**

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Grades 9-12

Credit: 0.5/semester

The skill of planning, preparing, serving, and selecting food is learned through actual experience in class. Also, students will analyze meal patterns, their own eating habits, and fast-food items for good nutrition and good health.

- **7371: Child Development**

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Grades 9-12

Credit: 0.5/semester

This class is designed to increase a student's awareness of the prenatal development and the role adults have. It will provide an understanding of how babies develop physically. Students will learn about each of the three trimesters of pregnancy, labor, and the care of infants. Baby Think It Over Program is used in this class.

- **7151: Gourmet Cooking**

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Grades 10-12

Credit: 0.5/semester

**Prerequisite: A grade of "B" or higher in Food and Nutrition.** This class is designed for students to learn advanced culinary skills. Skills that students will work on include cake decorating, appetizers, and pastries, as well as planning and preparing gourmet meals.

- **7281: Independent Living**

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Grades 10-12

Credit: 0.5/semester

Students will learn the practical skills necessary for adult living. The basics of leasing an apartment, buying a home, managing money, establishing credit, purchasing an automobile, obtaining insurance, and securing employment are experienced through actual practice in class. This may count toward the Financial Literacy requirement. **Available only at LCN.**



### **Michigan Merit Curriculum Requirements (4 credits)**

Algebra 1 (1 credit)

Geometry (1 credit)

Algebra 2 (1 credit)

Math elective or math-related credit course (1 credit)

**Note:** A student must be enrolled in a math course  
or a math-related credit course in 12<sup>th</sup> grade.

\*\*\* Beginning with the class of 2028 Financial Literacy  
standards must be met

### **Personal Curriculum Modifications Allowed**

See your counselor to develop possible plans.

Mathematics is an essential part of a well-rounded education. It helps build analytical and deductive thinking skills that can be applied in many areas beyond a mathematics classroom through the study of problem solving. In order to ensure that all students are prepared to be successful upon exiting high school, a four-year requirement was instituted for graduation in the State of Michigan.

An essential component to successful mathematics development is proper course placement based upon performance in previous courses. Incoming freshmen will register for the course for which their background and ability have prepared them (either Algebra 1 or Geometry).

For a freshman to take Honors Geometry, successful completion of Algebra 1 with a B- or better must be completed prior to the start of the 9<sup>th</sup> grade year. Guidelines for Algebra 1 completed before 9<sup>th</sup> grade are as follows:

- The curriculum is the same as Algebra 1 that is completed in 9<sup>th</sup> grade.
- Credit for Algebra 1 will appear on a student transcript.
- Algebra 1 will count toward the four-year high school math requirement and toward the 22-credit graduation requirement.
- The grade earned will not be included in the calculation for earning a mathematics honor cord.

Calculators and computers may be utilized when appropriate in any course. A personal graphing calculator is strongly recommended for classes beyond Geometry.

**For courses offered in the Math, Science, and Technology (MST) Program,  
refer to the “Math, Science, and Technology (MST) Program” section of this guidebook.**

### • 3105 / 3106: Pre-Algebra

Grade 9

Credit: 1.0/year

This class is designed to increase students' foundational mathematics skills and prepare them for Algebra I by covering a variety of topics, such as properties of rational numbers (i.e., number theory), ratio, proportion, estimation, exponents and radicals, the rectangular coordinate system, sets and logic, formulas, and solving first-degree equations and inequalities.

**Available only at LCHS.**

- **3101 / 3102: Algebra 1**

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Grade 9

Credit: 1.0/year

This course emphasizes the study of functions with a focus on linear, quadratic and exponential models. In addition, students will study polynomials and examine simple statistical models. Students will enhance their knowledge of exponent rules, solving equations, graphing, and using tables.

- **3201 / 3202: Geometry**

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Grades 9-10

Credit: 1.0/year

**Prerequisite: Successful completion of Algebra 1.** This course deals with sets of points and related properties. Sets studied include lines, angles, polygons, circles, planes, and surfaces of geometric solids such as pyramids, cones, cylinders, and spheres. The class emphasizes systematic approaches to and processes for proving and applying theorems. This course also will include applications of algebraic skills.

- **3211 / 3212: Honors Geometry**

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Grades 9-10

Credit: 1.0/year

**Prerequisites: A grade of "B-" or higher in Algebra 1, or teacher recommendation.** This course includes all topics included in Geometry at an advanced level with an emphasis on mathematical reasoning and problem solving. This course moves more rapidly and studies the topics in greater detail than in Geometry.

- **3301 / 3302: Algebra 2**

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Grades 10-11

Credit: 1.0/year

**Prerequisite: Successful completion of Algebra I and Geometry.** This course is a continuation of Algebra 1 and Geometry concepts. Key concepts include sequences, polynomials, exponential functions, complex numbers, rational functions, rational exponents, logarithms, function transformations, and statistical inferences.

- **3311 / 3312: Honors Algebra 2**

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Grade 10-11

Credit: 1.0/year

**Prerequisite: A grade of "B-" or higher in Honors Geometry, or teacher recommendation.** This course includes all topics included in Algebra 2 at an advanced level with an emphasis on mathematical reasoning and problem solving. This course moves more rapidly and studies the topics in greater detail than in Algebra 2.

- **3603 / 3604: AP Precalculus**

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Grades 11-12

Credit: 1.0/year

**Prerequisite: B- in Algebra 2 and/or teacher recommendation.**

In AP Precalculus, students explore everyday situations and phenomena using mathematical tools and lenses. The framework focuses on four key units of study that colleges expect students to demonstrate to qualify for credit or placement. AP Precalculus centers on functions modeling dynamic phenomena. This research based exploration of functions is designed to better prepare students for college-level calculus and provide grounding for other mathematics and science courses. In this course, students study a broad spectrum of function types that are foundational for careers in mathematics, physics, biology, health science, social science and data science.

- **3151 / 3152: Statistics**

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Grades 11-12

Credit: 1.0/year

**Prerequisite: Algebra 2.** In this course, students develop strategies for collecting, organizing, and analyzing data. Students will tabulate results from surveys and experiments. Probability and simulations aid students in constructing models for chance behavior. Sampling distributions provide students with an opportunity to understand the idea that statistics can vary and this variation can be modeled. Students may use a graphing calculator and computer output to investigate statistical concepts.



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- **3707 / 3708: AP Statistics**

Grades 11-12

Credit: 1.0/year

**Prerequisite: Algebra 2 and teacher recommendation.** AP Statistics is the high school equivalent of a one semester, introductory college statistics course. In this course, students develop strategies for collecting, organizing, analyzing, and drawing conclusions from data. Students will design, administer, and tabulate results from surveys and experiments. Probability and simulations aid students in constructing models for chance behavior. Sampling distributions provide the logical structure for confidence intervals and hypothesis tests. Students may use a graphing calculator, computer output, and web-based applets to investigate statistical concepts. To develop effective statistical communication skills, students are required to prepare frequent written and oral analyses of real data. Upon successful completion each semester, students will have 0.5 honor point added to their grade. For more information, refer to the "Advanced Placement (AP) Courses" section.

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- **3701 / 3702: AP Calculus AB**

Grade 12

Credit: 1.0/year

**Prerequisite: A grade of "B-" or higher in AP Precalculus, or teacher recommendation.** This is a college-level course covering limits, derivatives, integration, and their applications. A graphing calculator is needed for this class. Upon successful completion each semester, students will have 0.5 honor point added to their grade. For more information, refer to the "Advanced Placement (AP) Courses" section.

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- **3391 / 3392: Financial Algebra**

Grades 11-12

Credit: 1.0/year

**Prerequisite: Successful completion of Algebra 2. Passing semester one ONLY satisfies the Financial Literacy requirement.** This course offers mathematic instruction for daily living that is meaningful and relevant by combining algebraic and graphical approaches with practical business and personal finance applications. Financial Algebra provides students with an engaging, meaningful learning experience. It shows how algebraic thinking patterns are essential for success in today's finance and business dealings. Topics include a strong review of basic algebra formulas with variables, equations, functions, systems of equations, graphs, and statistics. Advanced functions such as piecewise functions, regression limits, exponential functions, and linear/quadratic systems are addressed. There will be a significant technology component teaching students modeling techniques.

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- **3941 / 3942: Mathematical Reasoning for College & Career Readiness**

Grade 11

Credit: 1.0/year

This class is specifically focused on mathematical reasoning enrichment which gives the student the essential skills to prepare for the SAT and for college and career. Course objectives include, but are not limited to:

- Employing multiple strategies to improve performance on standardized tests
- Exploring question styles and samples of the mathematics portion of the SAT
- Learning and sharing calculator strategies to enhance speed and accuracy of calculations to enhance the ability for success on the SAT and in college and career
- Investigating colleges and career choices that include mathematical reasoning
- Researching the college application process, as well as the process in which to secure a loan.
- Practicing different types of study habits and skills for the needs of the individual student
- General elective credit only (not a math credit)

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- **6103 / 6104: AP Computer Science Principles**

Grades 10-12

Credit: 1.0/year

**Prerequisite: A grade of "C" or higher in Algebra 1, and teacher recommendation.** This course will introduce students to the creative aspects of computer programming, abstractions, algorithms, large data sets, internet safety, cybersecurity concerns, and computing impact on the global society. The curriculum covered through code.org includes the internet, digital information, intro to programming, data and privacy, and creation of apps. AP Computer Science Principles gives students the opportunity to use current technologies to create artifacts for both self-expression and problem solving. Upon successful completion each semester, students will have 0.5 honor point added to their grade. For more information, refer to the "Advanced Placement (AP) Courses" section.

## Music: Instrumental

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The following information pertains to all bands listed in the course descriptions below. Please read these expectations carefully before making a commitment to the instrumental music program.

In the fall all bands combine to form the L'Anse Creuse High School Lancer Marching Band and the L'Anse Creuse High School – North Crusader Marching Band. Admission to classes is based upon previous experience, individual competence, organizational balance, and auditions. Experiences for performance will be provided in the following areas:

- **Concert Band:** Performances in seasonal concerts, District and State Band Festival, as well as various performance experiences, which may require travel
- **Marching Band:** Performances in parades, marching competitions, half-time shows at home football games, as well as various experiences, which may require travel
- **Solo and Small Group Ensemble:** Performances in coordination with scheduled band concerts and the District and State Solo and Ensemble Contest
- **Other opportunities for performance:** Possible selection for pep band, jazz band, district honors band, Youth Arts Festival, Michigan College and University High School Honors Bands, Lions of Michigan All-Star Band, etc.
- **Style of music:** Performances will include standard high school band literature of all types including classical, modern, renaissance, popular, rock, and jazz.

The primary student obligation and responsibility are faithful attendance of all previously scheduled and announced rehearsals and performances including, but not limited to, sectionals, after-school rehearsals, evening rehearsals and performances, summer band camp, summer rehearsals, and parades.

- **8521 / 8522: Freshman Band**

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Grade 9

Credit: 1.0/year

**Prerequisite:** Middle School Band experience, or by the discretion of the Director of Bands. This class continues the instruction begun in middle school band in developing performance skills on all of the band instruments to an advanced level of proficiency.

- **8501 / 8502: Wind Symphony**

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Grades 10-12

Credit: 1.0/year

**Prerequisite:** Previous experience or audition. This class continues the instruction begun in the Freshman, Concert, and/or Symphony Bands. Students will be exposed to advanced musical literature and an increased emphasis of all curricular areas of instrumental music including the advanced knowledge and instruction of music theory. Although not required, it is strongly recommended that students enrolled in this course enhance their musical experience through participation in private lessons and Solo and Ensemble Festival.

- **8511 / 8512: Symphony Band**

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Grades 10-12

Credit: 1.0/year

**Prerequisite:** Previous experience or audition. This class continues the instruction begun in the Freshman or Concert Band. Students will be exposed to more advanced musical literature. Continued emphasis will be placed on developing the fundamentals of good musical performance. Although not required, it is recommended that students enrolled in this course enhance their musical experience through participation in private lessons and Solo and Ensemble Festival.

- **8531 / 8532: Jazz Band**

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Grades 9-12

Credit: 1.0/year

**Prerequisite: Previous experience or audition.** This class is an extension of Freshman Band, Symphony Band and Wind Symphony. It is designed to give students an opportunity to expand their knowledge through the study and performance of music within the jazz idiom.

- **8591 / 8592: AP Music Theory**

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Grades 10-12

Credit: 1.0/year

**Prerequisite: Teacher recommendation.** This course provides an advanced study of music theory and composition. Students will study an intensive curriculum that is equivalent to the first full year of university level music theory. Students will prepare for and take the College Board AP Music Theory Exam offered in the spring of each school year. This course is highly recommended for any student wishing to study music or any music-related field beyond high school. Upon successful completion each semester, students will have 0.5 honor point added to their grade. For more information, refer to the "Advanced Placement (AP) Courses" section.

## **Music: Vocal**

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Music activities consist of ensembles of varying size and abilities, performing, and studying a variety of musical styles and compositions. Admission to classes is based upon previous experience, individual competence, organizational balance, and auditions. Performance opportunities vary among groups due to size and ability. Membership in all music performance groups requires the student to attend all performances of the group in which he/she is enrolled.

- **8711 / 8712: Ensembles / Sectionals – Vocal**

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Grades 10-12

Credit: 1.0/year

**Prerequisite: Audition or teacher recommendation.** This course offers an advanced experience with more opportunities to perform.

- **8801 / 8802: Show Choir**

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Grades 9-12

Credit: 1.0/year

**Prerequisites: One year in choir with choreography experience, and teacher recommendation.** Show Choir is designed to provide students with the opportunity to apply movement to music. Several performances throughout the year will include dance and choreographed movements. There will be regular tests based on musical understanding and movement along with tests of theory, musical interpretation, and singing.

- **8901 / 8902: Concert Choir**

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Grades 9-12

Credit: 1.0/year

Students will be exposed to advanced choral literature. Continued emphasis will be placed on developing the fundamentals of good musical performance. There will be performances in and out of school as well as travel experiences. There will be regular tests of theory, musical interpretation, and singing.

- **8591 / 8592: AP Music Theory**

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Grades 10-12

Credit: 1.0/year

**Prerequisites: Teacher recommendation.** This course provides an advanced study of music theory and composition. Students will study an intensive curriculum that is equivalent to the first full year of university level music theory. Students will prepare for and take the College Board AP Music Theory Exam offered in the spring of each school year. This course is highly recommended for any student wishing to study music or any music-related field beyond high school. Upon successful completion each semester, students will have 0.5 honor point added to their grade. For more information, refer to the "Advanced Placement (AP) Courses" section.

# Physical Education

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## Michigan Merit Curriculum Requirements (1 credit)

Health (0.5 credit)  
Physical Education (0.5 credit)



## Personal Curriculum Modifications Allowed

Substitute 1.0 additional credit in  
ELA, Mathematics, Science, or World Language

A complete education addresses the intellectual, emotional, spiritual, and physical needs of the learner. To ensure that students get at least a minimal background in physical education and health, the L'Anse Creuse Public Schools Board of Education has decided that every student, in order to graduate, must complete at least one semester of physical education and one semester of health. The department offers courses beyond these minimum standards and strives to provide an opportunity to build life-long skills and to learn sound principles of healthy living. All classes may incorporate a swimming unit and health-related fitness components will be emphasized.

### • 0911: Foundations of Physical Education

Grades 9-12

Credit: 0.5/semester

This is a course that addresses what students need to know and be able to do to manage their activity in ways that maximize their overall well-being. The course equips students to apply the skills and concepts associated with engaging in life-long activity. Students acquire the knowledge and experience essential to monitoring their personal health-related fitness levels. Course topics that will be covered are fitness principles, strength training, swimming, basketball, racket sports, jogging/power walking, and golf. Other areas of concentration may include football, floor hockey, handball, lacrosse, softball, speedball, and volleyball.

### • 0251: Health Education

Grades 9-12

Credit: 0.5/semester

This class provides an informational and practical learning situation for developing life-long healthful living. Areas of concentration will include HIV/AIDS, suicide, stress, personality, self-esteem, diet and nutrition, physical activity and inactivity, smoking, drugs and alcohol, sexual activity, and legal consequences. In addition, students will learn about influence of media, culture, and technology, goal-setting, decision-making skills, interpersonal communication skills, health promotion, and disease.

### • 0071: Team Sports

Grades 9-12

Credit: 0.5/semester or 1.0/year

**Recommended: Foundations of Physical Education.** Students will rotate through a series of team activities with the focus on the health-related components of physical fitness. Included with each sport will be an opportunity for students to officiate by class-generated rules. Areas of concentration will include touch football, lacrosse, basketball, handball, soccer, floor hockey, softball, swimming sports, and fitness testing.

### • 0101: Advanced Physical Education

Grades 9-12

Credit: 0.5/semester

**Prerequisite: Teacher recommendation. Recommended: Foundations of Physical Education.** This is a demanding, high-performance class designed for various high school athletes. Students will practice common training principles related to basketball, baseball, cross-country, football, lacrosse, softball, swimming, track, and volleyball. Areas of concentration will include cardiovascular endurance, muscular strength and endurance, proper diet and nutrition, and strategic game play.  
**Available only at LCN.**

- **0311: Weight Training**

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Grades 9-12

Credit: 0.5/semester or 1.0/year

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**Prerequisite: Foundations of Physical Education.** This class provides students an opportunity to learn life-long strength and fitness training. It teaches students to organize, initiate, and sustain an individual strength development program. Proper safety and lifting techniques are stressed. Students will gain an increased knowledge of the human body.

- **0421: Aerobic Exercise**

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Grades 9-12

Credit: 0.5/semester

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**Prerequisite: Foundations of Physical Education.** Aerobics will emphasize cardiovascular development and movement through individual and group presentations. Tae-Bo, step aerobics, and water aerobics will be implemented during the semester. Strength training, abdominal workouts, jogging, and power walking also will be highlighted. **Available only at LCN.**

### Michigan Merit Curriculum Requirements (3 credits)

Biology (1 credit)  
Chemistry **or** Physics (1 credit)  
Science elective or science-related credit course (1 credit)



### Personal Curriculum Modifications Allowed

None

Science is an integral part of a well-rounded education. The study of science helps build critical thinking and problem-solving skills that are essential in today's ever-changing and advancing society. Furthermore, all students, not just those interested in following a science-oriented career path, need a good science education. Students must complete at least three years of science to meet high school graduation requirements but are encouraged to take as many science courses as possible. College bound students are encouraged to complete four years of Honors or AP science courses.

**For courses offered in the Math, Science, and Technology (MST) Program, refer to the "Math, Science, and Technology (MST) Program" section of this guidebook.**

- **4121 / 4122: Biology**

Grade 9

Credit: 1.0/year

Biology is the study of life. This course covers the characteristics of living things, the chemical processes necessary for life, the diversity of life, the relationships of living things to the environment, and the effects of man on living things and the environment. This course covers the Michigan Science Standards recommended state requirements in science and helps prepare students for the state proficiency exam.

- **4151 / 4152: Honors Biology**

Grade 9

Credit: 1.0/year

**Prerequisite: Teacher recommendation.** This course is intended for students who plan to pursue upper-level science courses. The course examines the inter-relationships and diversities among all living things and the molecular structure on which life is based. This course extends beyond the Michigan Science Standards recommended state requirements in science and further prepares students for the state proficiency exam.

- **4101 / 4102: AP Biology**

Grades 10-12

Credit: 1.0/year

**Prerequisites: A grade of "B" or higher in Biology, or teacher recommendation.** This second-year biology course is equivalent to a college-level introductory biology course. Major areas of study include molecules and cells, heredity and evolution, and organisms and populations. The major goals of this course are to help students develop a conceptual framework for modern biology and to help students gain an appreciation for science as a process. Laboratory experiments also are an integral component of this course. Upon successful completion each semester, students will have 0.5 honor point added to their grade. For more information, refer to the "Advanced Placement (AP) Courses" section. **Available every year at LCN, and every other year at LCHS.**

- **4221 / 4222: Chemistry**

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Grade 10

Credit: 1.0/year

Chemistry is the study of matter and its interactions. This course will provide students with an opportunity to work with chemical formulas, names, equations, and reactions. Other concepts covered in this course will include atomic structure, matter classification, electron configuration, periodicity, chemical bonding, acid-base reactions, and nuclear reactions. This course is designed around the Michigan Science Standards and will help prepare students for the state proficiency exam.

- **4251 / 4252: Honors Chemistry**

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Grade 10

Credit: 1.0/year

**Prerequisites: A grade of “B” or higher in Biology or Honors Biology, Algebra 1, and teacher recommendation.** This is an advanced-level science course that will provide students with an opportunity to work with chemical formulas, names, equations, and reactions. Other concepts covered in this course will include atomic structure, matter classification, electron configuration, periodicity, chemical bonding, acid-base reactions, redox reactions, and thermo chemistry. This course extends beyond the Michigan Science Standards and prepares students for college science courses.

- **4241 / 4242: AP Chemistry**

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Grades 11-12

Credit: 1.0/year

**Prerequisite: Successful completion of Honors Chemistry, or teacher recommendation.** This second-year chemistry course is equivalent to a college-level inorganic chemistry course. Topics such as the structure of matter, the kinetic theory of gases, chemical equilibria, chemical kinetics, and the basic concepts of thermodynamics will be presented in considerable depth. Laboratory experiments are also an integral component of this course. Upon successful completion each semester, students will have 0.5 honor point added to their grade. For more information, refer to the “Advanced Placement (AP) Courses” section. **Available every year at LCN, and every other year at LCHS.**

- **4311 / 4312: Physics**

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Grades 11-12

Credit: 1.0/year

**Prerequisite: Successful completion of either Biology or Chemistry.** Physics is the study of how things work. This course is for students who want to be exposed to the ideas and the language of physics. Algebra and geometry are useful for this course. Physics covers the Michigan Science Standards in science and prepares students for the state proficiency exam.

- **4321 / 4322: Honors Physics**

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Grades 11-12

Credit: 1.0/year

**Prerequisite: Successful completion of either Biology or Chemistry, and concurrent enrollment in Algebra 2.** This is an advanced-level course. Topics covered include motion, forces, energy, fluids, heat, thermodynamics, electricity, magnetism, sound, light, optics, nuclear physics, and relativity. Algebra and trigonometry are emphasized in the class. This course extends beyond the Michigan Science Standards in Science and further prepares students for the state proficiency exam.

- **4343 / 4344: AP Physics 1**

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Grades 11-12

Credit: 1.0/year

**Corequisite: Concurrent enrollment in Algebra 2 or Precalculus.** Physics is the foundation for engineering, but it is also essential for many science-based professions, including many positions in the medical field. This course covers kinematics, forces, energy, momentum, rotational motion, torque, gravitation, waves, sound, simple harmonic motion, and electric circuits. This course is an excellent option for first-year physics students who excel in math and science. The course is specifically designed to be a first-year physics course, even though it is an AP course. Upon successful completion each semester, students will have 0.5 honor point added to their grade. For more information, refer to the “Advanced Placement (AP) Courses” section.

- **4131 / 4132: Anatomy and Physiology**

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Grades 11-12

Credit: 1.0/year

**Prerequisite: A grade of “C” or higher in Biology, or teacher recommendation.** This course provides an in-depth study of the structure and function of living systems. This class is recommended for the student who may wish to pursue a career in the allied health or medical fields. Students should be prepared to dissect a variety of lab specimens.

- **4041: Forensic Science A**

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Grades 11-12

Credit: 0.5/semester

Forensic Science is the application of basic biological, chemical, and physics principles, and technological practices for the purpose of justice in the study of criminal and civic issues. Major themes of study in this course are crime scene investigation, evidence collections, fingerprints, hair, and fibers, drugs, and toxicology, questioned documents and handwriting analysis and ballistics. **Forensic Science A is NOT a prerequisite for B. The two courses may be taken independently and in ANY order. Available only at LCN.**

- **4042: Forensic Science B**

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Grades 11-12

Credit: 0.5/semester

Forensic Science is the application of basic biological, chemical, and physics principles and technological practices for the purpose of justice in the study of criminal and civic issues. Major themes of study in this course are crime scene investigation, soil and glass analysis, ballistics, impressions and toolmarks, DNA, blood spatter, entomology, and human remains, and questioned forensic psychology. **Forensic Science A is NOT a prerequisite for B. The two courses may be taken independently and in ANY order. Available only at LCN.**

- **4141: Environmental Science**

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Grades 11-12 (LCHS) / Grades 10-12 (LCN)

Credit: 0.5/semester

This course will survey environmental and ecological concepts. Topics to be covered include ecosystems, biomes, and the impact of humans on water, land, and air. Outdoor field experiences will be an integral part of the coursework. Independent and group activities will be emphasized. Students must be self-motivated and willing to work independently.

- **4143 / 4144: AP Environmental Science**

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Grades 10-12

Credit: 1.0/year

**Prerequisite: Successful completion of, or concurrent enrollment in, Chemistry.** This course is designed to be the equivalent of a one-semester, introductory college course in environmental science, through which students engage with the scientific principles, concepts, and methodologies required to understand the inter-relationships of the natural world. The course requires that students identify and analyze natural and human-made environmental problems, evaluate the relative risks associated with these problems, and examine alternative solutions for resolving or preventing them. Environmental Science is interdisciplinary, embracing topics from geology, biology, environmental studies, environmental science, chemistry, and geography. Upon successful completion each semester, students will have 0.5 honor point added to their grade. For more information, refer to the "Advanced Placement (AP) Courses" section. **Available every year at LCN, and every other year at LCHS**

- **4161: Earth & Space Science – Astronomy**

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Grades 11-12

Credit: 0.5/semester

Students will call on their science background to study the structure of planets and moons to the large scale structure of galaxies and the Universe. We will study the Moon, the planets and the Milky Way galaxy, as well as talk about dark matter and energy, black holes, and the possibility of life in the universe. A background in science and math is helpful.

- **4941 / 4942: Scientific Reasoning for College & Career Readiness**

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Grade 11

Credit: 0.5/semester or 1.0/year

This class is specifically focused on scientific reasoning enrichment which gives the student the essential skills to prepare for the SAT and for college and career. Course objectives include, but are not limited to:

- Employing multiple strategies to improve performance on standardized tests
- Exploring question styles and samples of the science portion of the SAT
- Investigating colleges and career choices that include scientific reasoning
- Researching the application process, as well as the process in which to secure a loan
- Practicing different types of study habits and skills for the needs of the individual student



- **9853: Robotics Club**

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Grades 9-12

Credit: 0.25/year

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Students participating on the Robotics Team may receive a .25 elective credit if the following criteria are met: Student must complete 60 hours of practices and team events, including a minimum of one competitive tournament. Student must also successfully complete the Participation and Leadership Level 2 Badge to earn credit.

### Michigan Merit Curriculum Requirements (3 credits)

U.S. History (1 credit)  
World History (1 credit)  
Economics (0.5 credit)  
Civics (Government) (0.5 credit)



### Personal Curriculum Modifications Allowed

After 2.0 credits which include Government (Civics):  
Substitute 1.0 additional credit in  
ELA, Mathematics, Science, or World Language

A major goal of the Social Studies Department is to help students understand the democratic principles under which we function. Another goal is to make students politically, historically, and socially aware of the world in which they live.

- **2101 / 2102: U.S. History**

Grade 9

Credit: 1.0/year

This course will study post-Reconstruction through WWII. The first semester covers 1877 through WWII. The second semester covers the United States from the Cold War to the present: the Cold War, the Korean War, Vietnam War, and geography.

- **2103 / 2104: Honors U.S. History**

Grade 9

Credit: 1.0/year

**Prerequisite: Teacher recommendation.** A more demanding course than United States History, this course challenges students to explain and apply their reading, writing, and interpretative abilities. Students read, study, respond to, and/or write about a variety of topics in American History including foreign and domestic policies, social and economic changes, political developments, and cultural movements. Emphasis will be placed on first-hand document analysis and argumentative writing within the curriculum. Other activities include projects, assessments, and opportunities for oral presentation.

**Available only at LCHS.**

- **2371 / 2372: AP Human Geography**

Grades 9-12 (LCN) 9 (LCHS)

Credit: 1.0/year

**Prerequisite: Teacher recommendation.** The purpose of this course is to expose students to the methods of analysis of patterns and practices that have affected understanding, use, and alteration of the earth's surface. Students are taught landscape analysis methods to examine human social organization and its environmental impact. The methods and tools geographers use in their science and practice are also explored. Upon successful completion each semester, students will have 0.5 honor point added to their grade. For more information, refer to the "Advanced Placement (AP) Courses" section.

- **2231: Government**

Grade 10

Credit: 0.5/semester

This course deals with the study of American Government. Detailed attention is paid to the mechanics of American Government such as checks and balances, the constitution, the judicial system, etc. This course stresses current events, taking into consideration the role of the United States of America as a world leader.

- **2041 / 2042: AP Government (Civics)**

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Grades 10-12

Credit: 1.0/year

**Prerequisite:** A grade point average of 3.3 or higher, or teacher recommendation. AP United States Government and Politics will involve the study of American Government with a focus on the U.S. Constitution, the three branches of government, and current problems that face the United States. Students will analyze and interpret current issues that face our nation's government today. Upon successful completion each semester, students will have 0.5 honor point added to their grade. For more information, refer to the "Advanced Placement (AP) Courses" section.

- **2351: Economics – Integrated Social Studies**

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Grades 10-12

Credit: 0.5/semester

This course will describe and demonstrate how economic forces affect consumer and producer decisions. Students will focus on business organizations, trade, economic development, and governmental institutions and policies. Students will also be introduced to geographic perspectives that integrate with economic perspectives.

- **2381: AP Microeconomics**

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Grades 10-12

Credit: 0.5/semester

**Prerequisite:** Teacher recommendation. AP Microeconomics is the study of individual choices, markets, and consumers. The course will explore the nature and functions of product markets on topics such as vehicle pricing, market functions, and consumer behavior. This course may be taken alone or in conjunction with AP Macroeconomics. Upon successful completion each semester, students will have 0.5 honor point added to their grade. For more information, refer to the "Advanced Placement (AP) Courses" section. **This course can serve as the Economics course required for graduation. Available only at LCN.**

- **2382: AP Macroeconomics**

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Grades 10-12

Credit: 0.5/semester

**Prerequisite:** Teacher recommendation. AP Macroeconomics is the study of the economic system as a whole. Topics of study include national income and price-level determination as well as economic performance measures, the financial sector, economic growth, and international economics. This course may be taken alone or in conjunction with AP Microeconomics. Upon successful completion each semester, students will have 0.5 honor point added to their grade. For more information, refer to the "Advanced Placement (AP) Courses" section. **This course can serve as the Economics course required for graduation. Available only at LCN.**

- **2011 / 2012: World History**

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Grade 11

Credit: 1.0/year

This course includes the study of more than 6000 years of World History. Topics include the study of Ancient Egyptians, Chinese, Greek and Roman Periods, Renaissance, Revolutions, WWI, WWII, the Holocaust, and the World since 1945.

- **2081 / 2082: AP World History**

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Grades 11-12

Credit: 1.0/year

**Prerequisite:** A grade point average of 3.3 or higher, or teacher recommendation. This course is designed to prepare students for intermediate and advanced college courses by making demands similar to those of full-year college survey courses. In AP World History, students will develop a greater understanding of the evolution of global processes and contact, including interactions over time. The course highlights the nature of changes in the international frameworks and their causes and consequences, as well as comparisons among major societies. Upon successful completion each semester, students will have 0.5 honor point added to their grade. For more information, refer to the "Advanced Placement (AP) Courses" section.

- **2161 / 2162: AP United States History**

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Grades 11-12

Credit: 1.0/year

**Prerequisite:** A grade point average of 3.3 or higher, or teacher recommendation. This course is designed to provide students with the analytic skills and factual knowledge necessary to deal critically with the problems and materials in United States history. The program prepares students for intermediate and advanced college courses by making demands upon them equivalent to those made by full-year introductory college courses. Students learn to assess historical materials (their relevance to a given interpretive problem, their reliability, and their importance) and weigh the evidence and interpretations presented in historical scholarship. This course develops the skills necessary to arrive at conclusions on the basis of an informed judgment and to present reasons and evidence clearly and persuasively in an essay format. Upon successful completion each semester, students will have 0.5 honor point added to their grade. For more information, refer to the "Advanced Placement (AP) Courses" section.

- **2311: Sociology**

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Grades 11-12

Credit: 0.5/semester

Sociology is the study of human group relationships. Religion, urbanization, values, socialization, and social change are discussed, paying particular attention to the relationship of present and projected behavior patterns. Emphasis is placed on sociological methods of research. Each student is required to do a project on a topic of their choice.

- **2451: Psychology**

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Grades 11-12

Credit: 0.5/semester

Psychology is a one-semester course that focuses on human behavior and includes the following topics: levels of consciousness, principles of learning, human development, personality, psychological disorders, socio-cultural influence, and sport psychology.

- **2441 / 2442: AP Psychology**

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Grades 11-12

Credit: 1.0/year

**Prerequisite:** Teacher recommendation. This is a challenging, two-semester course designed to introduce students to the systematic and scientific study of the behavior and mental processes of human beings and other animals. Students will be exposed to the psychological facts, principles, and phenomena associated with each of the major subfields within psychology. Upon successful completion each semester, students will have 0.5 honor point added to their grade. For more information, refer to the "Advanced Placement (AP) Courses" section. **Available only at LCN.**

- **2141 / 2142: Social Studies – College and Career Literacy**

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Grade 11

Credit: 1.0/year

This class is focused specifically on literacy enrichment, which gives the student the essential skills needed to prepare for the SAT and for college and career. Course objectives include, but are not limited to:

- Employing multiple strategies to construct meaning (reading annotation, vocabulary usage and study, analyzing main ideas, evidence, and historical documents) to enhance ability for success on the SAT and in college and career
- Reading and comprehending general and historical documents
- Learning usage and mechanics for college, career, and SAT
- Enhancing reading skills of strategy, college applications, and real-world situations
- Practicing different types of study habits and skills for the needs of the individual student
- General elective credit only (not a social studies credit)

## World Language

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Proficiency in a language is acquired after many years of study, contact and use. Therefore, students who truly wish to learn a language should begin early and complete as many courses before graduation as they are able. Four years of French, German, and Italian are offered. Spanish is offered for six years. Students are required to take a minimum of a two-year sequence of any language. They may elect to study two foreign languages at the same time; however, it is usually better to wait at least one year before beginning the second. The World Language department follows and integrates the 5 Cs: Communication, Cultures, Connections, Comparisons, and Communities, which are the National Standards for Foreign Language Learning.

World Language should be an integral part of the course study for all students, especially those who plan to attend college or technical schools, or who plan careers in our “global” business/industrial society. Each course listed will receive one credit per year. **Four years in a single language are recommended for Literature, Science, and the Arts Colleges.**

- 5311 / 5312: French 1
- 5511 / 5512: Spanish 1
- 5611 / 5612: German 1
- 5811 / 5812: Italian 1

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Grades 9-11

Credit: 1.0/year

These beginning courses are devoted to developing the skills of listening, speaking, reading, and writing. By working with the teacher, classmates, and recorded material, the student gradually learns to recognize and adapt text materials into everyday conversation. A variety of audio/visual aids and current technology are used to acquaint the student with the people and countries where the language is spoken. **Spanish 1 also is offered for high school credit at all four middle schools.**

- 5321 / 5322: French 2
- 5521 / 5522: Spanish 2
- 5621 / 5622: German 2
- 5821 / 5822: Italian 2

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Grades 9-12

Credit: 1.0/year

**Prerequisite: Successful completion of Course 1, or teacher recommendation.** These second-level courses again stress speaking and listening skills. The student continues to develop reading and writing abilities, as well as the finer points of grammatical structures. The student continues to explore the culture of the people who use the language. **Spanish 2 also is offered for high school credit at all four middle schools.**

- 5331 / 5332: French 3
- 5531 / 5532: Spanish 3
- 5631 / 5632: German 3
- 5831 / 5832: Italian 3

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Grades 9-12

Credit: 1.0/year

**Prerequisite: Successful completion of Course 2, or teacher recommendation.** These third-level courses emphasize listening, speaking, and the mastery of more advanced grammatical concepts. The student develops the ability to talk on prepared topics and use the common expressions needed in everyday life. More time is spent on reading selections and on composition.

- 5341 / 5342: French 4
- 5541 / 5542: Spanish 4
- 5641 / 5642: German 4
- 5841 / 5842: Italian 4

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Grades 10-12

Credit: 1.0/year

**Prerequisite: Successful completion of Course 3, or teacher recommendation.** These fourth-level courses are an extension of level three. The student should develop the ability to understand and communicate at a normal conversational tempo without obvious mistakes. More time will be spent on reading short stories and writing to improve composition.

- 5551 / 5552: Spanish 5

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Grades 11-12

Credit: 1.0/year

**Prerequisite: Successful completion of Spanish 4 or, Teacher recommendation.** This level-five hybrid course is an extension of level four or AP Spanish. The course will include extensive grammar review at an accelerated pace and continued vocabulary study. The student should develop the ability to understand and communicate at a normal conversational tempo without obvious mistakes. More time will be spent on reading and listening to authentic sources and speaking to improve fluency.

- 5561 / 5562: AP Spanish Language and Culture

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Grades 11-12

Credit: 1.0/year

**Prerequisites: Successful completion of Spanish 4, or teacher recommendation.** The emphasis of this course will be the refinement and application of the skills acquired in previous Spanish courses. This course is conducted entirely in Spanish and assumes knowledge of Spanish grammar. It is designed for advanced and serious students. Students will write concise essays, record interpersonal oral presentations and discuss various topics in class that they have researched. Advanced college texts and authentic materials will be used. Upon successful completion each semester, students will have 0.5 honor point added to their grade. For more information, refer to the “Advanced Placement (AP) Courses” section.

## Advanced Placement (AP) Courses

The Advanced Placement Program® (AP) enables willing and academically prepared students to pursue college-level studies while still in high school. Each AP course is modeled on a comparable introductory college course in the subject. Each course culminates in a standardized college-level assessment, or AP Exam. Taking AP courses and exams can help students earn college credit and/or skip introductory courses in college. Most four-year colleges and universities grant students credit, placement, or both for qualifying AP Exam scores. The minimum score required and the amount of credit earned are determined by each college or university. All students who are willing and academically prepared to accept the challenge of a rigorous academic curriculum will be considered for scheduling of AP courses. **Upon successful completion each semester, students will have 0.5 honor point added to their grade.**

The listing below includes all AP courses offered at L'Anse Creuse Public Schools. Refer to each departmental section in this guidebook for individual course descriptions. **Note that courses listed at the end are available only to students accepted into the Math, Science, and Technology (MST) Program.** For more information, refer to the "Math, Science, and Technology (MST) Program" section of this guidebook.

Course Name	Department
AP Computer Science Principles	Business
AP English Language and Composition	English
AP English Literature and Composition	English
AP Statistics	Mathematics
AP Precalculus	Mathematics
AP Calculus AB	Mathematics
AP Computer Science Principles	Mathematics (formally under Industrial Technology)
AP Computer Science A	Mathematics (formally under Industrial Technology)
AP Music Theory	Instrumental and Vocal Music
AP Biology	Science
AP Chemistry	Science
AP Physics 1	Science
AP Environmental Science	Science
AP Human Geography	Social Studies
AP U.S. Government and Politics	Social Studies
AP Microeconomics	Social Studies
AP Macroeconomics	Social Studies
AP World History	Social Studies
AP United States History	Social Studies
AP Psychology	Social Studies
AP Spanish Language and Culture	World Language
AP Statistics	MST Program
AP Precalculus	MST Program
AP Calculus AB	MST Program
AP Calculus BC	MST Program
AP Biology	MST Program
AP Chemistry	MST Program
AP Physics C	MST Program

## Online Courses

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Student success using online instruction requires individuals who are motivated, self-directed learners. Students applying for permission to take a virtual course shall complete all prerequisites and provide teacher/counselor recommendations to confirm that the student possesses the maturity level needed to function effectively in an online learning environment. The expressed approval of the principal must be obtained before a student may enroll in a virtual course.

Online classes may be used to take advanced courses not currently offered in the L'Anse Creuse Public Schools high school curriculum or as an alternative for medically-required homebound instruction, or in cases of unavoidable scheduling conflicts. Students who meet the requirements below for virtual courses may be eligible for district provided tuition. If the class is part of a student's daily schedule and falls within the approved guidelines, the district will pay the tuition cost. For classes held outside the normal school day, the student is responsible for tuition and all costs associated with the course.

Guidelines for online instruction are listed below:

- High school students in grades 9-12 are eligible.
- All courses must be approved by a state accreditation agency, generate credit and be pre-approved by the building principal.
- Students may take an online course, or will have an online learning experience incorporated into one or more required credits.
- High school students are limited to two online courses per semester.
- Students must be enrolled in and attending at least four (4) traditional high school classes in order to take a virtual class during the school day.
- A certified staff member will be assigned to each student as a mentor and will provide support service for each student enrolled in online course work.

Students should make an appointment to see their counselors if they are interested in enrolling in an online course.



## Special Education

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The L'Anse Creuse Public Schools Special Education Department provides a full range of services to students who have been designated by an Individual Educational Planning committee as having need of unique educational programming.

Four levels of service are available:

- **Teacher Consultants:** These staff members serve students who are scheduled full time in regular educational classes. The Teacher Consultant provides a variety of supportive services depending on the individual needs of each student. These services students in two ways:
  - Direct Service: Service is provided to students who are scheduled full-time in regular educational classes. Services may vary depending on the individual needs of each student.
  - Consultative Services: Teacher Consultants meet with general education teachers in assigned departments to develop individual plans and adaptations for students who have been scheduled in general education classes without support in compliance with their Individualized Education Program (IEP). General education teachers will carry out these plans and adaptations.
- **Co-Taught Classes:** These courses are offered in several subject areas. In these classes, a general education teacher and a special education teacher teach as a team to cover core content with additional support.
- **Resource Room Classes:** These courses are provided for students with greater academic needs. Small class sizes, special materials, and individual attention maximize student progress.
- **Special Education Programming:** Full-time programming is available for students with severe learning and/or behavior problems who have difficulty achieving in a more traditional classroom setting.



## **Career and Technical Education (CTE) Math, Science, and Technology (MST)**

### **F.V. Pankow Center Course Descriptions**

**Frederick V. Pankow Center (FVPC)**

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**Amy Gole – Director/CTE  
586.783.6570**

## Graduation Requirement Substitutions (FVPC)

Some graduation requirements can be modified to help students achieve personal goals. Refer to the chart below to determine which Pankow courses can be used to satisfy specific requirements. Additional notes are as follows:

- All courses below are eligible for externship credit. Refer to Page 55 for more information.
- Pankow course offerings can be used for **one graduation requirement per school year** with no “double-dipping.” For example, Sports Medicine taken in a student’s senior year cannot count for both a math- and a science-related credit. It can be substituted for only **one** of these.
- Any state-approved CTE course can be substituted for a 3<sup>rd</sup> credit of Social Studies or a credit of Health.
- Course titles that are ***shaded and italicized*** are not formally-approved CTE courses.
- Any “X” marked with an asterisk (\*) must be approved with a personal curriculum. Please see your guidance counselor.

Pankow Course Offerings**	4 <sup>th</sup> cr. English	4 <sup>th</sup> cr. Math	2 <sup>nd</sup> cr. Science	3 <sup>rd</sup> cr. Science	3 <sup>rd</sup> cr. Social Studies	PE	Health	2 <sup>nd</sup> cr. World Lang.	VPA
<i>AP Computer Science A</i>		X							X
Auto Collision & Refinishing				X	X*	X*	X*	X	X
Automotive Technology		X		X	X*	X*	X*	X	X
Construction Technology		X		X	X*	X*	X*	X	X
Criminal Justice				X	X*	X*	X*	X	X
Culinary Arts		X		X	X*	X*	X*	X	X
Dance 1, 2, 3				X	X*	X*	X*	X	X
Early Childhood		X		X	X*	X*	X*	X	X
English: Broadcast Journalism	X			X	X*	X*	X*	X	X
Graphic Arts		X		X	X*	X*	X*	X	X
Health Occupations		X		X	X*	X*	X*	X	X
Horticulture Science		X	X	X	X*	X*	X*	X	X
<i>Intro to Computer Programming</i>		X							X
Intro to Cybersecurity				X	X*	X*	X*	X	X
Mechanical Drafting		X		X	X*	X*	X*	X	X
Medical Assisting		X		X	X*	X*	X*	X	X
PC Servicing/Networking				X	X*	X*	X*	X	X
Sports Medicine		X		X	X*	X*	X*	X	X
Theatre				X	X*	X*	X*	X	X
Tourism Hospitality Management		X		X	X*	X*	X*	X	X
TV & Broadcast Media				X	X*	X*	X*	X	X
Web Design				X	X*	X*	X*	X	X

\*\*Students attending courses held at Fredrick V. Pankow Center will have a reduction in the number of instructional minutes due to the transportation time to and from Fredrick V. Pankow Center. Permission for the reduced time is allowable in accordance with the MDE policies as specified in the Pupil Membership Accounting and Auditing Manuals.

## Career and Technical Education (CTE)

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The Frederick V. Pankow Center's Career and Technical Education (CTE) Programs are designed to provide all students completing high school in the Michigan education system with the necessary academic, technical, work behavior, knowledge, and skills for success in a career pathway of their choice.

We provide the knowledge and skills leading to initial employment and/or further education and training upon high school completion. All courses are offered under the guidance of certified CTE instructors, counselors, cooperative (externship) education coordinators, and a Career Development facilitator.

All CTE programs follow the district's policies of non-discrimination on the basis of race, color, religion, sex, national origin, age, height, weight, marital status, handicap, or disability in all activities and employment. In addition, arrangements can be made to ensure that a lack of English language skills is not a barrier to admission or participation.

CTE classes at the Pankow Center are designed for a one-year or two-year duration and are geared for sophomores, juniors, and seniors. Students who successfully complete a one- or two-year program are welcome to return for a third year of training in a different class to enhance their career goal. Students who successfully complete CTE courses also may have the opportunity to waive college credit through articulation agreements.

We have many business and industry partnerships that may result in excellent apprenticeship opportunities for our students. Additionally, our externship (formerly co-op) program is available to any student who attends the Pankow Center, which includes students who attend L'Anse Creuse Public Schools or a "sending" school.

For more information about Career and Technical Education,  
refer to the contact information below:

**Amy Gole – Director/CTE**  
Frederick V. Pankow Center  
24600 F.V. Pankow Blvd.  
Clinton Township, MI 48036-1306  
586.783.6570  
goleam@lc-ps.org

## Year Two Student Plan Requirement

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Any student interested in continuing on to a 2<sup>nd</sup> year in their selected CTE program must have an **APPROVED** Year 2 Plan.

To be considered for a 2<sup>nd</sup> year in your selected CTE Program at Pankow, you must complete the Year 2 Plan Application. You can access the form by contacting your Guidance Counselor.

Once you have completed the form, your teacher will be notified of your interest. Please note, that completing this form does NOT guarantee you a spot in a year 2 course. Students will be granted approval based on the following items:

- Successful completion of Year 1 curriculum (with a 2.0 or higher)
- Attendance
- Career Ready Practice Skills Proficiency Level
  - Problem Solving
  - Communication Skills
  - Collaboration Skills
  - Personal Management Skills
- Area of Focus (WBL or Certifications) for 2<sup>nd</sup> year.

**See CTE Teacher for access to digital Year 2 Plan Application.**

## CTE 2-Year Certification Courses

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- |   |                                      |
|---|--------------------------------------|
| • Advanced Computer Programming and Game Design | • Graphic Arts and Design Technology |
| • Auto Collision & Refinishing                  | • Horticulture Science               |
| • Automotive Technology                         | • Mechanical Drafting                |
| • Construction Technology                       | • Medical Assisting                  |
| • Culinary Arts                                 | • PC Servicing and Networking        |
| • Dance   | • Theatre                            |
| • Education: Early Childhood                    | • TV and Broadcast Media             |

## Agriculture, Food & Natural Resources

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- 9601 / 9602: Horticulture Science

Grades 10-12

Credit: 2.0/year

**Note:** This course is offered on a “block” schedule (two class periods) for two semesters.

**Recommended prerequisites:** 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 in this course are members of the FFA which is a student run organization that develops leadership, communication, teamwork, career, and other skills.

**Year 2 of this course may be available pending successful completion of Year 1 (2.0 or higher) AND have an approved Year 2 Plan on file.**

## Architecture & Construction

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- 9081 / 9082: Construction Technology

Grades 10-12

Credit: 2.0/year

**Note:** This course is offered on a “block” schedule (two class periods) for two semesters.

**Recommended prerequisite:** Drafting. This course is designed to give students the opportunity to develop skills related to the various building/construction trades. Practical, hands-on experience, as well as classroom instruction, will give the student exposure to the variety of opportunities in the building trades field. Students will learn about residential rough and finish carpentry, plumbing, drywall installation and repair, commercial carpentry, roofing, cabinet making, electrical wiring, painting, and ceramic tile. Job safety and instruction on proper handling of hand and power tools will be taught and expected as part of the course. Basic math, as well as builder’s math, will be learned through daily instruction and homework. Students interested in pursuing a career in the building trades – whether as tradesmen, construction managers, engineers, architects, or designers – would benefit from completion of a two-year program in Construction Technology. Attendance is very important to be accepted by apprenticeship programs following graduation.

**Year 2 of this course may be available pending successful completion of Year 1 (2.0 or higher) AND have an approved Year 2 Plan on file.**

## Arts, A/V Technology & Communications

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- 8617 / 8618: Dance 1

Grades 9-12

Credits: 2.0/year

**Note:** This course is offered on a “block” schedule (two class periods) for two semesters.

**Prerequisite:** Placement audition. This course is designed to enhance the student’s knowledge of dance as a performing art. Students will learn introductory dance movements in modern, ballet, and jazz techniques. Units of learning will include terminology, nutrition, injury prevention, composition, and dance history. Students will develop kinesthetic techniques to improve their levels of flexibility, coordination, posture, and balance. Attendance at rehearsals and performances outside of class is required. Students must provide their own personal dance clothes and jazz shoes. **Students can choose to use this course to fulfill the graduation requirement for Physical Education or Performing and Applied arts.**

- 8717 / 8718: Dance 2

Grades 9-12

Credits: 2.0/year

**Note:** This course is offered on a “block” schedule (two class periods) for two semesters.

**Prerequisite:** Placement audition. This course is designed for students with previous dance training. This course reinforces more advanced dance techniques in modern, ballet, and jazz. Students will build upon previous dance experience, knowledge, and training. Units of learning will include the study of technical and locomotor elements, creative expression, terminology, history, and choreographic concepts. Attendance at rehearsals and performances outside of class is required. Students must provide their own personal dance clothes and dance shoes. **Students can choose to use this course to fulfill the graduation requirement for Physical Education or Performing and Applied arts.**

- **8817 / 8818: Dance 3**

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Grades 9-12

Credits: 2.0/year

**Note: This course is offered on a “block” schedule (two class periods) for two semesters.**

**Prerequisite: Teacher recommendation.** This performance-based yearlong course is designed for students who are at an advanced dance level in jazz and ballet, and will include Dance Composition. The course is designed for students who have achieved a high degree of skill and explores different dance styles. It focuses on detailed aspects of dance techniques at an accelerated pace. This course will dive into the art of choreography. Space, shape, rhythm, and dynamics will be explored. Units of learning include formation development, transitions, music editing, terminology, history, injury prevention, editing, and composition. Attendance at rehearsals and performances outside of class is required. Students must provide their own personal dance clothes and dance shoes. **Students can choose to use this course to fulfill the graduation requirement for Physical Education or Performing and Applied arts.**

- **9181 / 9182: Graphic Arts and Design Technology**

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Grades 10-12

Credit: 2.0/year

**Note: This course is offered on a “block” schedule (two class periods) for two semesters.**

**Recommended prerequisite skills: Basic drawing, basic painting, basic 3-D exposure, basic color theory, and/or basic math.**

This course is designed to educate students in the most current phases and practical applications of commercial art and commercial printing, while introducing students to the ‘new world’ of Graphic Arts and Design Technology (GADT). The GADT program is meant to provide students with the basic knowledge of traditional and contemporary trends via simple business-in-art strategies. In addition to continuing skill development in drawing and design practice through bi-weekly sketchbook assignments, the GADT program will explore styles and methods to create eye-catching illustrations, page layouts, graphic designs, and digital photographic retouching. Students will be exposed to many types of software programs that include Adobe Illustrator CC, Adobe Photoshop CC, Adobe InDesign CC and Adobe After Effects CC (**Adobe software certification tests are available**). This course is conducted in a professional, business-like atmosphere, studying real-world jobs with real-world deadlines. The GADT program will prepare students for post-secondary education and potential entry-level employment opportunities in commercial art. With instructor approval, a student may attend GADT for a second year with the focus on portfolio building in preparation for postsecondary education or employment opportunities.

**Year 2 of this course may be available pending successful completion of Year 1 (2.0 or higher) AND have an approved Year 2 Plan on file.**

- **1247 / 1248: Theatre 1**

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Grade 9-12

Credit: 2.0/year

**Note: This course is offered on a “block” schedule (two class periods) for two semesters.** Students audition for the program at the beginning semester of their previous school year. A limited number of students may audition during the first week of each school year. In Theatre 1, students will be exposed to multiple facets of theatre including: Acting (technique, voice, body positions, movement, blocking, characterization, improvisation, etc.); Types of Stages, Set Design, Costume Design, Theatrical Genres (musical, drama, one-acts, etc.); and Stage Production jobs. Students will perform before an invited audience at the end of Semester 1 and Semester 2 with many additional opportunities throughout the year to act during class. All students will have the opportunity to learn from visiting guest artists who will share information/answer questions about their individual specialties as well as participatory workshops given by guest artists. Students will also have opportunities to view professional theatre both in class and at venues when available.

- **1257 / 1258: Theatre 2**

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Grade 10-12

Credit: 2.0/year

**Note: This course is offered on a “block” schedule (two class periods) for two semesters.**

**Prerequisite: Theatre 1.** Students audition for the program or express their intent to continue in the program at the beginning of Semester 2 in their previous school year. A limited number of students may audition during the 1<sup>st</sup> week of each school year. Theatre 2 scaffolds on the foundations presented in Theatre 1 with more specific focus and practice on acting technique (intermediate acting). Students will delve deeper into Set Design and Costume Design and be introduced to Lighting Design, Sound Design, Stage Management, and Directing. Students will perform before an invited audience at the end of Semester 1 and Semester 2 with many additional opportunities throughout the year to act during class. All students will have the opportunity to learn from visiting guest artists sharing information about their individual specialties as well as participatory workshops given by guest artists. Students will also have opportunities to view professional theatre both in class and at venues when available.

- **1241 / 1242: Play Production**

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Grade 11-12

Credit: 2.0/year

**Note: This course is offered on a “block” schedule (two class periods) for two semesters.**

**Prerequisite: Theatre 2 & Teacher recommendation.** Students audition for the program or express their intent to continue in the program at the beginning of Semester 2 in their previous school year. A limited number of students may audition during the first week of each school year. Play Production is our most advanced theatre class. Through project-orientated work and academic study, students will: Be introduced to the roles of the Dramaturg and Assistant Director. Lead and assist peers. Further build skills as an individual Director and/or Producer. Further develop or explore specific individual interests in Technical Theatre, Writing, Stage Management and Performance. Experience and evaluate field trips and guest artists. Create a portfolio of work and resources suitable for pursuing professional employment/training and/or university theatre admissions/scholarships.

- **1677 / 1678: TV and Broadcast Media**

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Grades 9-12

Credit: 2.0/year

**Note: This course is offered on a “block” schedule (two class periods) for two semesters.**

If you like making videos, are interested in podcasting and love to learn using state-of-the-art technology this class is for you! In this course you have the opportunity to create unique videos inside a huge broadcast studio, in a hands-on environment where you learn by DOING. You will produce numerous videos, from Music Videos, Tik-Toks and Commercials to Interview Style Documentaries and Mini-Movies. You will be given a Canon m50 to film, a Rode MicGo to collect audio and a Magnus tripod to steady your shots including a DJI OSMO to make your phone work better than a professional camera! This is YOUR equipment you are given to use the entire school year! You will also have your own classroom iMac computer to plan, edit and upload your video masterpiece. In the TV studio, you will help create a broadcast for the district known as “CreuseLine” using broadcast studio equipment with a full green screen and professional news set. You will use industry standard Final Cut Pro and Adobe Premiere editing software to edit and upload to your YouTube channel. PLUS, you will have access to a full podcast studio to create the most impressive sounding podcast you can imagine. The course is designed to prepare students to explore careers in Television Production and to develop the essential skills for employment in this field. College credit at Macomb Community College can be earned with a “C” average or higher in this course. Students who succeed in this course may be considered for our advanced video program; Broadcast Journalism.

**Year 2 of this course may be available pending successful completion of Year 1 (2.0 or higher) AND have an approved Year 2 Plan on file.**

- **1397 / 1398: English: Broadcast Journalism**

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Grades 10-12

Credit: 2.0/year

**Note: This course is offered on a “block” schedule (two class periods) for two semesters.**

**Prerequisite: Successful completion of TV and Broadcast Media AND teacher recommendation.** In TV & Broadcast Media, students work closely with the instructor to learn all about planning, filming and editing productions. In this course, students work independently, with limited coaching by the instructor, to create their own studio productions based on stories involving: school events, sports, food, entertainment, medicine, education, as well as local, national, and international news. Students focus on researching subjects in their area of interest, interviewing experts in that area, and creating properly packaged stories for network news editing them in Adobe Premiere Pro. Students often produce these news packages for PBS Student Reporting Labs and the LCPS-TV News Show “CreuseLine.” This is a writing course that offers students a unique way to publish their work for 21<sup>st</sup> century consumers.

- **9751 / 9752: Web Design**

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Grades 10-12

Credit: 2.0/year

**Note: This course is offered on a “block” schedule (two class periods) for two semesters.** This course introduces students to the fundamentals of web design, equipping them with the skills to build and style their own web pages and websites. Through hands-on experience, students will gain foundational knowledge of HTML (Hypertext Markup Language) and CSS (Cascading Style Sheets) for creating visually appealing and well-structured sites. The class also explores the use of web design software, allowing students to enhance their skills with industry tools. Key topics include effective design and layout principles, HTML coding practices, and the integration of text, graphics, tables, frames, and forms for optimized user experience. After successful completion of the program students may also become an Adobe Certified Associate in Web Design in Photoshop, Dreamweaver, and Flash CC, as well as an Associate in Visual Design in Illustrator, and InDesign CC.



## Education & Training

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- 9091 / 9092: Education: Early Childhood

Grades 10-12

Credit: 2.0/year

**Note:** This course is offered on a “block” schedule (two class periods) for two semesters.

**Prerequisite:** A grade point average of 2.2 or higher.

**Recommended prerequisite:** Child Development.

**Students in Early Childhood must be able to pass a background check.**

Thinking of working or teaching young children in the future? This class is a hands-on experience where you learn about child development, explore the field of education, and experience school from a teacher’s perspective. Students in this class will spend at least 50% of their time working with and teaching three- and four-year-olds in our Teens for Tots Preschool. Students will design and implement fun and engaging lessons and activities to teach the preschool children. Students will use their public speaking skills to present their lessons three times a week to both large and small groups. Students in this class may earn a Child Development Associate Credential which will allow you to teach preschool throughout the country.

**Year 2 of this course may be available pending successful completion of Year 1 (2.0 or higher) AND have an approved Year 2 Plan on file.**

## Health Sciences

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- 9481 / 9482: Health Occupations

Grades 10-12

Credit: 2.0/year

**Note:** This course is offered on a “block” schedule (two class periods) for two semesters.

**Prerequisite:** Biology.

**\*\*Student not eligible to take if they have successfully completed Sports Medicine PT/OT.**

Health Occupations provides students with transferable skills to help meet the needs of the healthcare industry. This course is designed to help students explore the health care field and the variety of related careers that are available. Students will be introduced to human anatomy and physiology, medical terminology and abbreviations, communication skills, ethical and legal responsibility, infection control, safety, career planning and employability skills. Students will earn an American Heart Association First Aid and CPR certification and EKG Technician (CET) credential if they meet the requirements. A two-week study of forensic science is also covered.

**Year 2 of this course (Medical Assisting) may be available pending successful completion of Year 1 (2.0 or higher) AND have an approved Year 2 Plan on file.**

- 9451 / 9452: Sports Medicine, Physical Therapy, and Occupational Therapy

Grades 10-12

Credit: 2.0/year

**Note:** This course is offered on a “block” schedule (two class periods) for two semesters.

**\*\*Student not eligible to take if they have successfully completed Health Occupations.**

Are you interested in a career in rehabilitative medicine? This course will allow you to explore your options while learning entry level skills. Topics to be covered will include patient care and mobility, prevention of injuries, ambulation techniques, range of motion activities, anatomy, and physiology, with an emphasis on musculoskeletal, medical terminology, legal and ethical issues, communications, teamwork, OSHA safety standards, and certifications for the American Heart Association (AHA), cardiopulmonary resuscitation (CPR), and First Aid.

**Year 2 of this course may be available pending successful completion of Year 1 (2.0 or higher) AND have an approved Year 2 Plan on file.**

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- **9421 / 9422: Medical Assisting**

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Grades 11-12

Credit: 2.0/year

**Note:** This course is offered on a “block” schedule (two class periods) for two semesters.

**Recommended:** Seniors who have completed at least 2 years each of English, Math, and Science.

**Prerequisite:** Successful completion of Health Occupations or Sports Medicine/PT/OT (2.0 or higher) **AND** an approved Year 2 Plan. This is a year-long class, that offers certification credentialing and assesses knowledge of health care systems and settings, medical terminology, basic pharmacology, nutrition, psychology, body structures and organ systems, pathophysiology and disease processes, microbiology, general patient care, infection control, testing and laboratory procedures, phlebotomy, EKG and cardiovascular testing, patient care coordination and education, administrative assisting, communication and customer service, medical law and ethics, and core knowledge and skills. Successful completion of a medical assistant training program is required to be qualified to take the exam. Students must be no more than 12 months from completing their high school graduation to be qualified to earn the credential, which is awarded on a provisional basis until a diploma is issued and verified. The credential is valid for two years; renewal requires 10 continuing education credits and payment of a renewal fee.

## Hospitality & Tourism

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- **9101 / 9102: Culinary Arts**

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Grades 10-12

Credit: 2.0/year

**Note:** This course is offered on a “block” schedule (two class periods) for two semesters. This course is designed to provide students with fundamental skills and understanding that are required for obtaining entry-level positions in the hospitality and culinary industry. Through academic lectures, personal study, hands-on training, and instructional demonstrations, students will learn and practice the basic techniques of dining room service and kitchen food preparations. During this first course, the following competencies will be covered:

- |  |  |
|--|--|
| • Food Safety & Sanitation                         | • Use & Care of Food Service Equipment         |
| • Food Identification & Nutrition                  | • Dining Room Training/Customer Service        |
| • Career Opportunities in Food Service             | • Industry Standards, Regulations & Law        |
| • Culinary Math                                    | • Knife Skills                                 |
| • Knives, Kitchen Tools, & Small Wares Use         | • Food Specifications, Handling, & Fabricating |
| • Meats & Seafoods                                 | • Fruits & Vegetables                          |
| • Intro to Hot Food, Cold Food, & Bakeshop Cooking | • Lab Activities & Hands-on Kitchen Production |

**Year 2 of this course may be available pending successful completion of Year 1 (2.0 or higher) AND have an approved Year 2 Plan on file.**

- **9145 / 9146: Hospitality Tourism Management**

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Grades 10-12

Credit: 2.0/year

**Note:** This course is offered on a “block” schedule (two class periods) for two semesters.

Job #1 in the hospitality industry is creating a welcoming atmosphere. Whether it’s in a restaurant, at a hotel concierge desk or following a round of golf, hospitality means happy customers. This class will begin preparing students for managerial careers in the hospitality fields by focusing on the following areas: Industry Overview, Lodging, Commercial and Non-Commercial Food Service, Recreation and Leisure Event Management, Travel and Tourism, and a Career in Hospitality. In addition to preparing students for entry-level positions in hospitality management, this course will provide specialized knowledge in the various management techniques and skills as they are practiced in the hospitality industry.

## Information Technology

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- 6101 / 6102: AP Computer Science A

Grades 10-12

Credit: 1.0/year

**Note:** This course is offered on a “regular” schedule for 1.0 credit per year. This course is the first semester of a two-semester sequence and is aligned to the Advanced Placement curriculum for Computer Science A. This is a college-level computer course covering the applications of computing within the context of programming methodology, algorithms, and data structures. Students engage in regular, frequent practice writing programs in a laboratory context. The course is taught using the Java language through a freely downloaded compiler program. Students will receive live instruction and complete short- and long-term programming projects. Upon successful completion each semester, students will have 0.5 honor point added to their grade. For more information, refer to the “Advanced Placement (AP) Courses” section.

- 9311 / 9312 Intro to Programming and Game Design

Grades 9-12

Credit: 2.0/year

**Note:** This course is offered on a “block” schedule (two class periods) for two semesters.

**Prerequisite:** Successful completion of Algebra 1. This is a class where gamers can feel at home! Computer programming is one of the best ways to train critical problem-solving skills in an academic setting while building relevant experience for one day working in a professional environment. This course is designed to provide a strong foundation in first-year programming concepts, with an emphasis on applying it to the world of interactive digital entertainment. Students spend the bulk of the class learning the C# programming language, creating console applications that will reinforce the concepts covered (logic, syntax, user interaction, testing, and documentation), and complete a variety of interesting tasks, while intermittently studying game design principles and theory. Once those skills are mastered, students work with a professional-grade development engine to create game projects of their own. No previous coding knowledge is required.

**Year 2 of this course may be available pending successful completion of Year 1 (2.0 or higher) AND have an approved Year 2 Plan on file.**

- 9291 / 9292: Introduction to Cybersecurity

Grades 11-12

Credit: 2.0/year

**Note:** This course is offered on a “block” schedule (two class periods) for two semesters.

**Pre-requisite:** Successful completion of PC Servicing and Networking (2.0 or higher) AND an approved Year 2 Plan.

This course provides an overview of the field of cybersecurity. It covers core cyber security topics including computer system architectures, critical infrastructures, cyber threats and vulnerabilities, cryptography, information assurance, network security, and risk assessment and management. In this course, the students will have an opportunity to earn up to 12 different industry certifications starting from Desktop Pro all the way to Ethical Hacking Pro throughout the year.

- 9071 / 9072: PC Servicing and Networking

Grades 10-12

Credit: 2.0/year

**Note:** This course is offered on a “block” schedule (two class periods) for two semesters.

This course is designed for students who have an interest in computers, networking, and the Internet. Students will explore the inner components of computers, the software and operating systems that run them, and connections that bind them. Discussions will focus on the latest trends in the ever-changing, technologically-infused world and how to prepare for them. Students who take this course will learn how computers operate, as well as how to trouble-shoot, repair, upgrade, and maintain them. Students also will learn basic computer networking skills, including how computer networks operate, how to properly connect and configure networks, and how the Internet operates globally. Computer networking is a growing field with great opportunities for growth and advancement. Students completing this one-year course will have the skills necessary to obtain an entry-level position in the information technology industry. Students also will be prepared for industry-recognized certification exams from CompTIA. College credit can be earned with a “B” average or higher in this course.

**Year 2 of this course may be available pending successful completion of Year 1 (2.0 or higher) AND have an approved Year 2 Plan on file.**

## Law, Public Safety, Corrections & Security

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- **9151 / 9152: Criminal Justice**

Grades 10-12

Credit: 2.0/year

**Note: This course is offered on a “block” schedule (two class periods) for two semesters.** This course is designed to prepare students who have an interest in one of the numerous careers in law-related fields and emergency services. Students will be introduced to Michigan Criminal Law and its applications, police procedures, police administration, criminal investigations, court procedures, first-aid/CPR, firefighting, and the criminal justice system as a whole. Students will become familiar with employment opportunities of local agencies. College credit can be articulated with a “B” average or higher in this course.

## **Science, Technology, Engineering and Mathematics**

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- **7711 / 7712: Mechanical Drafting**

Grades 10-12

Credit: 2.0/year

**Note: This course is offered on a “block” schedule (two class periods) for two semesters.**

This course covers mechanical design techniques through 2D and 3D modeling software. Students learn how to design parts, build assemblies, layout engineering drawings and 3D print models. The manufacturing unit includes CAD CAM simulation, CNC router use and FEA stress analysis. Solidworks is the primary platform with multiple certifications available. AutoCAD, Inventor and Fusion360 are also taught. End of the year projects allow for the combination of skill sets and/or an exploration of architectural and construction design modeling in Revit. Students interested in engineering, manufacturing, product development or other related careers should take this course. This course counts as a senior level math credit.

**Year 2 of this course may be available pending successful completion of Year 1 (2.0 or higher) AND have an approved Year 2 Plan on file.**

## **Transportation, Distribution & Logistics**

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- **9011 / 9012: Auto Collision & Refinishing**

Grades 10-12

Credit: 2.0/year

**Note: This course is offered on a “block” schedule (two class periods) for two semesters.**

**Required: Students must wear safety glasses (first pair provided).** This program teaches students the fundamentals of auto collision repair and refinishing. It also includes instruction on damage repair and metal finishing, paint preparation, welding, surface preparation, and refinishing. Students also will have the opportunity to learn basic estimating and cost analysis. This program is certified by the following organizations:

- National Automotive Technicians Education Foundation (NATEF)
- Automotive Service Excellence (ASE)
- Automotive Youth Education System (AYES) connected through the Detroit Automotive Dealers Association (DADA)

**Year 2 of this course may be available pending successful completion of Year 1 (2.0 or higher) AND have an approved Year 2 Plan on file.**

- **9031 / 9032: Automotive Technology 1**

Grades 11-12

Credit: 2.0/year

**Note: This course is offered on a “block” schedule (two class periods) for two semesters.**

**Required: Students must wear safety glasses (first pair provided).** Are you looking for a class where you can get your hands dirty? Are you interested in a class where you can turn your love of cars into a rewarding career? Or are you just looking for a class that will help you save hundreds of dollars on auto repairs by learning to do them yourself? If you answered yes to any of these questions, then Auto Technology 1 is right for you. In this course, you will learn the basics of automotive care. Starting with shop safety, tool usage, and general service facility operations, you will learn to understand the duties of an “Auto Tech.” As you progress you will study the components and functions of three major automotive systems: (1) brakes, (2) steering and suspension, and (3) internal combustion engine.

**Year 2 of this course may be available pending successful completion of Year 1 (2.0 or higher) AND have an approved Year 2 Plan on file.**

- **9041 / 9042: Automotive Technology 2**

**Note:** This course is offered on a “block” schedule (two class periods) for two semesters.

**Prerequisite:** Successful completion of Automotive 1 (2.0 or higher). **Required:** Students must wear safety glasses (first pair provided). This advanced automotive course is geared toward giving students the skills they will need to gain entry-level employment in the automotive service industry or 100-level college courses. Course work focuses on automotive electronics, electrical systems and engine drivability, course safety, maintenance, tool usage, heavy equipment operations, and all areas of automotive repair and repair facility operations. Automotive Technology 2 offers automotive theory with “hands-on” experience. Skill levels for testing and Automotive Service Excellence (ASE) certification can be achieved upon completion of Automotive Technology 2. (Certification also must include one year of on-the-job training.) Tire Industry Association (TIA) also certification can be earned in class. This program is certified by the following organizations:

- Automotive Youth Education System (AYES)
- National Automotive Technicians Education Foundation (NATEF)
- Tire Industry Association (TIA)

## Student Externship & Work Based Learning

### 9871 / 9872: Student Externship

Grades 11-12

Credit: 1.0/semester or 2.0/year

**Prerequisite:** Concurrent enrollment in a CTE program. The Externship program is designed to give all Career and Technical Education (CTE) students an opportunity to work a part-time job after school related to their CTE course. The externship is open to juniors and seniors who are taking a CTE class (at Pankow or their home high school) and would like to earn credit for experiencing real-life situations in that career field. The student’s progress is supervised and evaluated by the student externship coordinator and employer each marking period. Externship is scheduled outside the standard school day, allowing for students to earn additional elective credit towards their graduation totals.

**Note:** The student must be at least 16 years of age and working a minimum of 150 hours per semester to earn the 1.0 credit. Students must meet daily classroom requirements, work in accordance with all state and federal labor laws, and have a training agreement in place.

- **9971 / 9972: Work-Based Learning (WBL)**

Grades 11-12

Credit: 1.0/semester or 2.0/year

**Prerequisites:** Concurrent enrollment in a CTE program related to the job, 2.5 GPA or higher in that CTE course work, prior job or Externship experience, excellent attendance and discipline record, and reliable transportation. The Work-Based Learning (WBL) Program is designed to give selected Career and Technical Education (CTE) students an opportunity to work a part-time job related to their field of study during the standard school day. Students are eligible to apply for WBL if they have successfully completed all CTE curriculum related to their job (with a 2.5 minimum GPA in that course work). Student’s progress is supervised and evaluated by the WBL coordinator and employer each marking period. WBL is scheduled into the standard school day in place of LCPS courses, similar to dual enrollment or online courses.

**All WBL applications must be approved by Pankow administration.**

## Math, Science and Technology (MST)

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The L'Anse Creuse Public Schools Math, Science, and Technology (MST) Program, housed at the F.V. Pankow Center, is a rigorous and accelerated four-year high school curriculum designed to challenge and inspire the district's most academically talented students and prepare them to succeed in the college or university of their choice. MST courses emphasize understanding and applying ideas. Students are encouraged to develop skills in critical thinking, problem solving, and teamwork. Elements of the program that extends the curriculum beyond that of a traditional classroom include:

- Accelerated mathematics and science courses
- Enhanced study of course content
- Integrated mathematics, science, and technology instruction
- Activities and exercises outside the classroom that extend learning
- Classroom settings with flexible time periods that encourage group work
- Differentiated teaching methods and strategies
- Increased interaction among students and staff
- Participation in content-area competitions

Students are selected for the MST program through an application process in the spring of their 8th grade year. Students who are enrolled in an accelerated 8th Grade Algebra 1 course in the four L'Anse Creuse middle schools, as well as local private and parochial schools, are eligible to apply. Selection is determined by academic record, performance on achievement and aptitude tests, teacher recommendation, and an essay.

Note: Students who do not complete Algebra 1 in 8th grade also may be considered if Algebra 1 is completed in summer school. Additionally, new openings may become available each year, so interested students in 10th through 12th grades also may be eligible and should speak to their counselor.

The following courses are offered only to students who have applied and been accepted to the MST Program. All courses are offered at the F.V. Pankow Center.

### • M3207 / M3208: MST Honors Geometry

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Grade 9	Credit: 1.0/year
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Geometric thinking offers alternate ways of reasoning mathematically beyond Algebra, including analytical and spatial reasoning. This course includes the study of points, lines, planes, angles, reasoning, proof, parallel lines, perpendicular lines, congruent triangles, relationships in triangles, proportion, similarity, right triangles, trigonometry, quadrilaterals, transformations, circles, areas of polygons, areas of circles, surface area, volume, and constructions. Students will be actively engaged in investigations through lecture and cooperative groups. Algebraic concepts frequently are integrated into this course.

### • M3307 / : MST Honors Algebra 2

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Grade10	Credit: 1.0/year
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**Prerequisite:** Successful completion of MST Honors Geometry, or teacher recommendation. This course builds upon concepts presented in Algebra 1 and introduces new topics that will be studied more deeply in Precalculus. Students are expected to have a firm understanding of linear, absolute value, quadratic, and exponential functions. More advanced studies will build upon those foundations and extend further into polynomial, logarithmic, rational, radical, and trigonometric functions. Other topics include probability & statistics and sequences & series. To prepare for Precalculus and beyond, this course also may include matrices and conic sections.

- **M3601 / M3602: MST AP Precalculus**

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Grade 11

Credit: 1.0/year

**Prerequisite:** Successful completion of MST Honors Algebra 2, or teacher recommendation. The study of the topics, concepts, and procedures of Precalculus deepens students' understanding of algebra and extends their ability to apply algebra concepts and procedures at higher conceptual levels. The theory and applications of trigonometry and functions are developed in depth. New mathematical tools, such as vectors and polar coordinates, are introduced, with an eye toward modeling and solving real-world problems. This course includes the study of functions and graphs, with a focus on polynomial, rational, exponential, logistic, logarithmic, and trigonometric functions. It also includes the study of analytic geometry (conics), discrete mathematics (probability, statistics, sequences and series, and mathematical induction) and an introduction to calculus.

- **M3507 / M3508: MST AP Calculus AB**

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Grade 12

Credit: 1.0/year

**Prerequisite:** Successful completion of MST Honors Precalculus, and/or teacher recommendation. AP Calculus AB is equivalent to a one-semester college-level calculus course. AP Calculus is primarily concerned with developing students' understanding of the concepts of calculus and providing experience with its methods and applications. The course emphasizes a multi-representational approach to calculus, with concepts, results, and problems being expressed graphically, numerically, analytically, and verbally. Technology will be used regularly, so a graphing calculator is required. This course is taught at a college level, and students should be prepared for the rigor. AP Calculus begins with the study of functions, graphs, and limits. These topics provide the foundation for the in-depth study of derivatives, integration, and their applications. Upon successful completion each semester, students will have 0.5 honor point added to their grade. For more information, refer to the "Advanced Placement (AP) Courses" section.

- **M3505 / M3506: MST AP Calculus BC**

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Grade 12

Credit: 1.0/year

**Prerequisite:** Successful completion of MST Honors Precalculus, and/or teacher recommendation. AP Calculus BC is equivalent to a first-year college-level calculus course. AP Calculus is primarily concerned with developing students' understanding of the concepts of calculus and providing experience with its methods and applications. The course emphasizes a multi-representational approach to calculus, with concepts, results, and problems being expressed graphically, numerically, analytically, and verbally. Technology will be used regularly, so a graphing calculator is required. This course is taught at a college level, and students should be prepared for the rigor. AP Calculus begins with the study of functions, graphs, and limits. These topics provide the foundation for the in-depth study of derivatives, integration, and their applications. AP Calculus BC also incorporates the study of parametric, polar, and vector derivatives, as well as a study of sequences and series from a calculus perspective. Upon successful completion each semester, students will have 0.5 honor point added to their grade. For more information, refer to the "Advanced Placement (AP) Courses" section.

- **M3607 / M3608: MST AP Statistics**

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Grades 11-12

Credit: 1.0/year

**Prerequisite:** Successful completion of MST Honors Algebra 2, and/or teacher recommendation. This course will introduce students to major concepts and tools for collecting, analyzing, and drawing conclusions from data. Unlike other traditional courses in mathematics, writing skills are utilized frequently in order to support those conclusions. Technology will be used regularly, so a graphing calculator is required. Students are exposed to four broad conceptual themes:

1. Exploring Data: Describing patterns and departures from patterns
2. Sampling and Experimentation: Planning and conducting a study
3. Anticipating Patterns: Exploring random phenomena using probability and simulation
4. Statistical Inference: Estimating population parameters and testing hypotheses

Upon successful completion each semester, students will have 0.5 honor point added to their grade. For more information, refer to the "Advanced Placement (AP) Courses" section.

- **M4127 / M4128: MST Honors Biology**

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Grade 9

Credit: 1.0/year

This is an advanced-level, introductory biology course. This freshman-level course meets and expands upon the Next Generation Science Standards (NGSS) in biology. Topics of study include how living things assimilate and use energy, respond to their environment, maintain a relatively constant internal environment, possess an inherited information base encoded in DNA, reproduce, are composed of one or more cells, and are highly organized compared to inanimate objects. This course is designed to prepare students for the successful transition to MST AP Biology. In addition, MST Honors Biology incorporates scientific research, technical writing, and advanced-level technologies.

- **M4227 / M4228: MST Honors Chemistry**

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Grade 10

Credit: 1.0/year

**Prerequisite: Successful completion of MST Honors Biology, and/or teacher recommendation.** This is an advanced-level introductory inorganic chemistry course. This sophomore-level course meets and expands upon the Next Generation Science Standards (NGSS) in chemistry. Topics of study include atomic structure, scientific measurement, chemical nomenclature, chemical bonding and classification, stoichiometry, chemical forces, gas laws, acid-base reactions, kinetics, electrochemistry, and thermochemistry. This course is designed to prepare students for the successful transition to MST AP Chemistry. In addition, MST Honors Chemistry incorporates scientific research, technical writing, and advanced-level technologies.

- **M4327 / M4328: MST Honors Physics**

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Grade 11

Credit: 1.0/year

**Prerequisite: Successful completion of MST Honors Chemistry, and/or teacher recommendation.** This is an advanced-level introductory physics course. This course meets and expands upon the Next Generation Science Standards (NGSS) in physics. Topics of study include kinematics, dynamics, energy, momentum, oscillations, fluids, heat/thermodynamics, electricity/magnetism, waves, sound, light, optics, and atomic/nuclear physics. This course also focuses on the problem solving, data analysis, and technical writing skills necessary for a smooth transition into MST AP Physics C.

- **M4627 / M4628: MST AP Biology**

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Grades 10-12

Credit: 1.0/year

**Prerequisite: Successful completion of MST Honors Biology, and/or teacher recommendation.** MST AP Biology is equivalent to a first-year college-level introductory biology course. Topics covered support the four Big Ideas and seven Science Practices required by the AP College Board. These topics include evolution and diversity, energy and molecular structure, living systems and life processes, and biological systems. This course will help students develop critical thinking, technical writing, and problem-solving skills through inquiry methods. Laboratory experiments and scientific investigations using advanced-level technologies are integral components of this course. Upon successful completion each semester, students will have 0.5 honor point added to their grade. For more information, refer to the “Advanced Placement (AP) Courses” section.

- **M4727 / M4728: MST AP Chemistry**

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Grades 11-12

Credit: 1.0/year

**Prerequisite: Successful completion of MST Honors Chemistry, and/or teacher recommendation.** MST AP Chemistry is equivalent to a first-year college-level inorganic chemistry course. Topics covered support the six Big Ideas and seven Science Practices required by the AP College Board. These topics include matter & chemical reactions, chemical structure, properties & forces, chemical changes & electron transfer, kinetics, intermolecular forces & dynamic equilibrium, and thermodynamics. This course will help students develop critical thinking, technical writing, and problem-solving skills through inquiry methods. Laboratory experiments and scientific investigations using advanced-level technologies are integral components of this course. Students are required to maintain a comprehensive lab notebook that is modeled after a college laboratory course. Upon successful completion each semester, students will have 0.5 honor point added to their grade. For more information, refer to the “Advanced Placement (AP) Courses” section.



- **M4527 / M4528: MST AP Physics C**

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Grade 12

Credit: 1.0/year

**Prerequisite:** Successful completion of MST Honors Physics, and/or teacher recommendation.

**Recommended:** Concurrent enrollment in AP Calculus AB or BC. MST AP Physics C is equivalent to a first-semester college course in calculus-based physics. This course is intended for students planning to major in science, engineering, or STEM fields at the college level. Topics of study include kinematics, dynamics, work, power, energy, momentum, rotation, oscillations, and gravitation. This course will help students develop critical thinking, technical writing, and problem-solving skills through inquiry methods. Laboratory experiments and scientific investigations using advanced-level technologies are integral components of this course. Upon successful completion each semester, students will have 0.5 honor point added to their grade. For more information, refer to the “Advanced Placement (AP) Courses” section.

- **M2551 / M2552: MST Honors Forensics/Astronomy**

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Grade 11

Credit: 1.0/year

This full year course will offer students to learn about different techniques and concepts in two different scientific fields. Forensic Science is the application of basic biological, chemical, and physics principles, and technological practices for the purpose of justice in the study of criminal and civic issues. Major themes of study in this course are crime scene investigation, fingerprints, hair, fibers, drugs, toxicology, and ballistics. Astronomy students will call on their science background to study the structure of planets and moons to the large-scale structure of galaxies and the Universe. We will study the Moon, the planets and the Milky Way galaxy, as well as talk about dark matter and energy, black holes, and the possibility of life in the universe. A background in science and math is helpful. MST will use this curriculum to make connections to Physics, Biology, Earth Science, and Chemistry by using technology and interactive software to collect and analyze data while keeping with the MSS Science Standards. The curriculum will integrate the concepts of PreCalc, Geometry, and Algebra 2 into Forensics and Astronomy.