

Lakeville  
AREA SCHOOLS

# PROGRAM OF STUDIES



link12  
LAKEVILLE





# Lakeville Area Schools

## 2023-2024 Program of Studies

Published by Lakeville Area Schools  
High School Principals and Assistant Principals/Dean of Students

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# Principals' Letter

January, 2023

Dear Students and Parents/Guardians,

As you begin to think of what classes to register for next school year, we hope that you use your MCIS experiences and interest survey results to drive your decision-making. As you look through the Program of Studies, carefully examine all of the wonderful opportunities. A new addition to the Program of Studies is a unique course code to define the classes at the high schools. The new course codes is divided into 6 parts- the department, the subject, the level, the credit, the semester and the instructional delivery method so that students can make accurate course selection.

Remember, course registration numbers drive what will be offered at each high school. Our staffing is determined by registration numbers so please choose your courses wisely. Here are some key things to consider:

- Challenge yourself. By taking courses that will test you, you will be able to overcome challenges you will face after high school such as the tougher workload of college courses or standing out in a competitive job market.
- Consider taking elective courses. They provide student opportunities to develop skills in critical thinking, creativity, collaboration and communication to ensure post-secondary and future readiness.
- We offer several career programs with a focus on specific career fields. Consider learning about the medical field in the LNHS Biomedical Science Program or by taking the LinK<sup>12</sup> Certified Nursing Assistant course, or become an expert in problem-solving through the LSHS STEM Academy or LNHS Engineering Innovation.
- A four-year degree is not the path for everyone. There are many innovative careers with good salaries that can be obtained with two or fewer years of training. Explore some of the courses that can lead to these careers.
- Most of all, think of high school as a stepping stone to the next stage of your life. Everyone, no matter how young or old, is always moving forward to a new step in life. You are about to take one of the most exciting steps by advancing past high school to master your interests and turn your craft into a successful career for life.

Students and parents/guardians should work together to select courses that pave the way for a successful future. Please contact your Dean of Students with any questions.

Sincerely,

Kim Budde  
Principal  
Lakeville North H.S.

Shaun Murphy  
Principal  
Lakeville South H.S.

Dana Kelly  
Administrator  
LinK<sup>12</sup> Lakeville

# Registration Planning Information

## Essential Planning and Registration Information

Each year the registration process begins with the posting of the revised “Program of Studies” and continues with student and parent meetings, followed by online registration. Students and parents are encouraged to review all information in each of the links under the Academics tab found on the homepage of each school’s website and to register online at home, using the registration instructions. The opening and closing days and times for the registration tab on the Infinite Campus portal and parent meeting dates and times are posted on the high school calendars and websites. Paper copies of all curriculum and registration information listed on the website are available upon request by contacting the Dean’s office, Student Services Office or LinK<sup>12</sup> Lakeville Administrator. Additionally, any student unable to register at home will be assisted in completing registration at school.

## Program of Studies

The curriculum guide for Lakeville high schools is entitled, “Program of Studies.” Included in this joint document for Lakeville North, Lakeville South and LinK<sup>12</sup> Lakeville is an overview of each curricular area and descriptions of all courses offered in each area. Parents and students are encouraged to review this document and all accompanying information to assist in planning an educational program and accounting for student’s completion of credits for graduation. While parents and students are primarily responsible for ensuring students meet all requirements for graduation, Deans and the LinK<sup>12</sup> Lakeville Administrator are available to assist, support, and provide guidance in the process.

## Instructional Delivery and Location

Each course in the Program of Studies lists instructional delivery method and location. Before choosing a course, students should be sure to review if the course is taught face-to-face, hybrid (part time face-to-face and part time online) or fully online. Additionally, because all students are able to take courses at Lakeville North, Lakeville South or through LinK<sup>12</sup> Lakeville, students should carefully check the location of the course offering.

## Credit Check

A document entitled, “Credit Check”, is a one-page summary of all requirements for each class designated by year of graduation. The credit check illustrates the forty-four semester credits needed by curricular area, the career portfolio activities to be completed in grades 9-12, and the standardized testing requirements for graduation. Students must meet all the essential components in order to earn a diploma and participate in graduation ceremonies.

## Course Selection Form

Another document created to assist in registration for classes is entitled, “Course Selection Form”. The course selection forms include a list of all courses available by grade level. For instance, the 9th grade course selection form lists all required courses and all electives available to freshmen. Please note, it is important to read each course description in the Program of Studies, as there are prerequisites for many courses. This form is distributed to all students and is available online during registration.

## Course Code Overview

In this guide, courses are listed by department. Each course has a unique course code to define the classes at the High Schools. Each course code can be divided into 6 parts: the department, subject, level, credit, semester and instructional delivery method. These course codes are what you will use to enroll in courses.

For example, below you see the course code LAE-100-11H for English 9, semester 1 taught in a hybrid setting.

Department		Subject		Level				Credit	Semester	Instructional Delivery
L	A	E	-	1	0	0	-	1	1	H

## Career/Postsecondary Planning

In addition to meeting the requirements for graduation, students are encouraged to register for classes that are academically appropriate for future education or entering the workforce after high school. Students wishing to go to four-year colleges are strongly recommended to register for Advanced Placement courses and core courses required for admission. Statistics clearly indicate students who take core classes (English, social studies, math and science) all four years will have improved test scores, which may be the difference in obtaining admission at the post-secondary school of choice. Students wishing to attend technical colleges or enter the workforce are encouraged to look at the many elective offerings in the area most closely associated with their career goals, and to review possible dual credit or articulated credit options.

## Course Requests

Students are required to register for a minimum of 12 semester long courses per year. All courses are offered on a semester-long basis. When students register, they are required to indicate alternate choices for electives. Due to space limitations and schedule conflicts, it is extremely important for students to list alternate choices. Courses will only be offered when warranted by enrollment and when appropriate staff is available.

## Other Considerations

Students who intend to participate in athletics at a Division I or Division II college as a freshman must meet the eligibility requirements established by the National Collegiate Athletic Association (NCAA). Eligibility requirements may be obtained through the Deans' office or Activities/Athletics website.

## Credit Attainment and Schedule Expectations

All courses are offered on a semester-long basis. Students receive .5 credit upon successful completion of a semester-long course. Transfer grades (from other high schools, college classes, University of Minnesota Talented Youth Math Program, home school, accelerated learning, online school, etc.) will be reviewed by the Dean of Students to determine credit placement. Transfer grades will be used to compute cumulative grade point average (GPA) and class rank. Any student choosing to take more than 50% of their courses online through Link12 Lakeville will be a Link12 Lakeville student.

Schedule corrections are based on need and availability of courses. Students have three days after the start of the semester to request schedule corrections. Exceptions may be made at the Dean's discretion if special needs or other factors exist. Students are expected to remain enrolled in six courses each semester. If a special circumstance occurs, a student has the first twenty school days of a semester to withdraw from a course. Beyond twenty days, any course withdrawal will be recorded as a "W" on the student's record and will negatively affect the student's GPA.

Any student failing a required course or withdrawing before the end of the semester must repeat the semester course to receive credit. Any student maintaining fewer than five courses per semester is subject to dismissal for the remainder of the semester. Students may not retake a course in an attempt to earn a better grade for any course in which they have earned a passing grade (D- or above).

## Graduation Requirements

Credit Requirements	Number of Semesters
Arts	2
Electives	13
English Language Arts	8
Math	6
Physical Education/Health	2
Science	6
Social Studies	7
Total	44

# Credit Path Chart

Grade 9			Grade 10	Grade 11	Grade 12
English Language Arts (8 semesters)	English 9 or Honors English 9		English 10 or Honors English 10	English 11 & one Speech: • Interpersonal Communication • Public Speaking	English 12 & one Media Studies: • Broadcast Media • Business Communication • Creative Writing • Film Analysis • Journalism • Yearbook Journalism
	Honors English 9		Honors English 10	AP Language & Composition	AP Literature & Composition or English 12 & Speech
			Optional: can also start taking Media Studies courses such as Journalism, Broadcast Media, Business Communication, Creative Writing, Film Analysis, Yearbook Journalism		*Students who successfully complete AP Lit. & AP Lang. meet the requirements for all 11th and 12th grade English Language Arts courses. AP Lit. & Comp. only counts as a Speech credit upon completion of AP Lang.
Math (6 semesters)	Intermediate Algebra		Geometry or Honors Geometry	Algebra 2 or Honors Algebra 2	Optional: • Pre-calculus • Honors Pre Calc • College Now Pre Calc • AP Stats • College Algebra & Trig.
	Geometry or Honors Geometry		Algebra 2 or Honors Algebra 2	Pre Calculus or Honors Pre Calc. or College Algebra & Trig. or AP Statistics or Personal Finance & Accounting	Optional: • AP Calc. • College Now Pre Calc. • AP Statistics • Personal Finance (one semester) • Accounting (one semester)
Science (6 semesters)	Physical Science		Biology or Honors Biology or AP Biology	Chmistry or Honors Chemistry or AP Chemistry or Physics or AP Physics	No Requirements
	Honors Biology or AP Biology		Chemistry or Honors Chemistry or AP Chemistry	Physics or AP Physics	No Requirements
Social Studies (7 semesters)	Geography (one semester) or AP Human Geography (full year, one semester counts as elective)		United States History or AP US History	World History or AP World History or AP European History or AP Art History	Economics or AP Macroeconomics or AP Microeconomics
	Civics 9 or AP Government & Politics or	OR	Civics (10-12) or AP Government & Politics		
Physical Education (1 semester)	Class of 2027: Physical Education 9	OR	Class of 2027: Physical Education 10-12		
			Class of 2024-2026: One of the following: Racquet Sports, Lifetime Activities, International Dance, Competitive Team Sports, Intro to Weight Training, Physical Education Online, Recreational Team Sports, or any advanced level of courses listed.		
Health (1 semester)	Health Issues				
Art (2 semesters)	All students must take 2 classes (1.0 credits) in the arts. This includes any art course, choir, band, Broadcast Media (LSHS only), Game & Web Development, Engineering your Future 1 & 2, Architecture 1 & 2				
Electives (13 Semesters)	Courses completed beyond the graduation requirements will count towards elective credit totals. All students must complete 13 classes (6.5 credits) in electives during grades 9-12.				
44 Total Semester Classes for Graduation					

## Career Portfolio Requirements

The Minnesota Department of Education requires all school districts to participate in Planning for Students Successful Transition to Postsecondary and Employment. Legislation requires all students, starting in grade nine to have a “plan” around several key elements: employability skills, career development, mindsets and social awareness, and transitional knowledge.

The Lakeville Area Public Schools Career Portfolio requires each student to complete specific career investigation activities in grades 9 – 12. The sequence of activities is intended to provide a comprehensive experience in career exploration enabling students to pursue a lifelong career which best matches their talents, abilities, and interests. Students create a portfolio on the Minnesota Career Information System (MCIS), an Internet-based system, which combines a wealth of career, education and labor market information into one comprehensive, easy-to-use exploration tool.

### Grade 9

Opportunities Day: MCIS Personal Learning Plan and interest inventory.

### Grade 10

Opportunities Day: MCIS activities for career investigation, college exploration and ACT practice.

### Grade 11

MCIS exploration of technical schools, colleges, academies, universities or business, service or industry

Junior Meeting: Post-secondary planning meeting.

### Grade 12

Senior job shadow designed for students to gain valuable information about chosen career area.

## Standardized Testing Requirements

The State of Minnesota currently requires students to take Minnesota Comprehensive Assessments (MCAs) in reading (grade 10) and math (grade 11) and science (one time in high school). Students are not required to achieve a specified score on an assessment in order to meet graduation assessment requirements. The Minnesota Department of Education requires each school district to develop a College and Career Readiness plan. Lakeville High Schools will continue to provide MCA assessments as directed by the Minnesota Department of Education. Per Minnesota Statutes, section 120B.31, subdivision 4a, a parent may exclude their child from MCAs. [Parent/Guardian Guide and Refusal to Statewide Testing Form](#) can be found here in multiple languages on the MN Dept. of Education website.

## Early Graduation

Students may be considered for early graduation if they have successfully met all requirements, including Lakeville High School credit requirements, State of Minnesota testing requirements, and Career Portfolio requirements. Students considering early graduation should meet with their Dean of Students or the Link12 Lakeville Administrator well in advance of their proposed semester of early graduation to discuss options and procedures.



## Commencement

Students who have not fulfilled all graduation requirements are not eligible to participate in the ISD 194 commencement ceremony.

Senior academic honors recognition is awarded according to the following criteria:

**Summa Cum Laude** = 4.0 and above GPA

**Magna Cum Laude** = 3.85 – 3.99 GPA

**Cum Laude** = 3.7 – 3.84 GPA

Honors recognition will be determined by using the cumulative GPA for each senior at the end of the first semester senior year.

## Lakeville Diploma

Students who choose to take more than 50% of their classes through Link12 Lakeville will earn a diploma from Lakeville North or Lakeville South High School. The school from which the diploma is earned is predetermined when a student enters the Link12 Lakeville program.

# Academic Credit Options

## Academic Credit Options at a Glance

Option	Explanation	Advantages	Considerations
AP Advanced Placement <a href="http://www.collegeboard.org">www.collegeboard.org</a>	<ul style="list-style-type: none"> <li>College-level course taught in high school</li> <li>More rigorous coursework</li> <li>Nationally based program offered through College Board</li> </ul>	<ul style="list-style-type: none"> <li>May earn college credit</li> <li>Challenges students</li> <li>Weighted grading</li> </ul>	<ul style="list-style-type: none"> <li>Post-secondary schools determine AP test score they will accept for credit</li> <li>Requires above average reading, writing, math skills</li> </ul>
Articulated Credit	<ul style="list-style-type: none"> <li>Students receive high school credit and certificates for the number of credits they successfully complete in certain business, family and consumer science, and STEM/industrial technology courses</li> </ul>	<ul style="list-style-type: none"> <li>Students pay only for the number of college credits not covered by the certificate at the cooperating college</li> <li>Gain experience &amp; knowledge for potential job/career</li> </ul>	<ul style="list-style-type: none"> <li>Verify that credits will transfer to college of choice</li> <li>Provide articulated credit certificate to accepting colleges during registration</li> </ul>
AVID	<ul style="list-style-type: none"> <li>College preparatory program for students who are in the academic middle</li> </ul>	<ul style="list-style-type: none"> <li>Develop college readiness skills</li> <li>Learn organizational &amp; study skills</li> <li>May earn college credit</li> </ul>	<ul style="list-style-type: none"> <li>4 years of high school elective credit</li> <li>Application &amp; interview required</li> </ul>
CLEP College Level Examination Program <a href="http://clep.collegeboard.org">clep.collegeboard.org</a>	<ul style="list-style-type: none"> <li>Demonstrate college-level achievement through exams in undergraduate coursework</li> </ul>	<ul style="list-style-type: none"> <li>May earn college credit</li> <li>Accelerate education by earning qualifying scores on any of the 34 introductory-level college subject examinations</li> </ul>	<ul style="list-style-type: none"> <li>Recommended for academically-strong students</li> <li>A letter grade of "P" for Pass will be assigned per credit</li> <li>90-minute exams, cost varies, cost incurred by the family</li> </ul>
Concurrent Enrollment	<ul style="list-style-type: none"> <li>Students earn "dual" high school credits and transcribed college credits simultaneously by demonstrating college level achievement in courses taught at the high school</li> </ul>	<ul style="list-style-type: none"> <li>College curriculum integrated into high school course</li> <li>There typically is no cost to the student</li> <li>Credits accepted at all Minnesota State Colleges and Universities and may be accepted by other institutions</li> </ul>	<ul style="list-style-type: none"> <li>Students must have a 3.0 GPA or be in top 50% of the class and must be in 11th or 12th grade to obtain college credit for the College Now Program</li> <li>Students may appeal requirements if there are extenuating circumstances</li> <li>Students must earn a B or better in the class, a score of 4 or higher on an end of course exam and then submit a \$100 registration fee to earn college credit for Project Lead the Way courses</li> </ul>

# Academic Credit Options at a Glance

Option	Explanation	Advantages	Considerations
Credit by Assessment	<ul style="list-style-type: none"> <li>Student may demonstrate outcomes for any course at high school and earn credit for the course</li> </ul>	<ul style="list-style-type: none"> <li>Transcript shows the credit earned and a course grade of A, A-, B+ or B</li> <li>Tests knowledge student already possesses</li> <li>Successful assessment gives student more schedule options</li> </ul>	<ul style="list-style-type: none"> <li>Assessment represents content included in subject coursework</li> <li>Application required</li> </ul>
Credit/No Credit	<ul style="list-style-type: none"> <li>Students may earn credit for a course without having the course affect their GPA or class rank if a passing mark is achieved</li> </ul>	<ul style="list-style-type: none"> <li>Students explore interests in subjects in which they may not be willing to risk getting a low grade</li> </ul>	<ul style="list-style-type: none"> <li>Application required</li> <li>Students take all tests, turn in all regular class work - only the final mark is a "P" (60% or higher) or "F" (below 60%)</li> </ul>
Credits Obtained from Other Institutions	<ul style="list-style-type: none"> <li>Students may transfer credits from colleges or online high schools as pre-approved by Dean/MN Dept of Education</li> <li>Course must be equivalent or beyond Lakeville Public Schools course sequence</li> </ul>	<ul style="list-style-type: none"> <li>Students may transfer credits from colleges or online high schools as pre-approved by Dean/MN Dept of Education</li> <li>Course must be equivalent or beyond Lakeville Public Schools course sequence</li> </ul>	<ul style="list-style-type: none"> <li>Appointment with the Dean should be made well in advance to review</li> <li>There may be a fee incurred by the family (from the other institution)</li> </ul>
Credit Recovery	<ul style="list-style-type: none"> <li>Designed for students who must recover credits to graduate</li> </ul>	<ul style="list-style-type: none"> <li>Allows students to maintain status and graduate with class</li> <li>Courses offered during the day and after regular school hours through the Lakeville Area Learning Center</li> </ul>	<ul style="list-style-type: none"> <li>Students must meet eligibility criteria</li> <li>Courses offered are English, social studies, science, math &amp; some electives</li> </ul>
Hybrid Courses	<ul style="list-style-type: none"> <li>Part time face to face instruction</li> <li>Part time independent online learning activities</li> <li>Main learning management system is Schoology with multiple digital tools utilized</li> </ul>	<ul style="list-style-type: none"> <li>21st Century skill development</li> <li>Preparation for possible online college courses</li> <li>Enhances technology skills</li> </ul>	<ul style="list-style-type: none"> <li>Recommended for students who are self-motivated and have good time management skills</li> <li>Students who do not have access to technology at home will be provided access to technology tools and be provided a time and space to complete work</li> </ul>

# Academic Credit Options at a Glance

Option	Explanation	Advantages	Considerations
High School Online Courses	<ul style="list-style-type: none"> <li>Students do not have face to face instruction</li> <li>Main learning management system is Schoology with multiple digital tools utilized</li> <li>Digital tools include email, chat, discussion boards, web pages, and multimedia technologies</li> </ul>	<ul style="list-style-type: none"> <li>21st Century skill development</li> <li>Preparation for possible online college courses</li> <li>Enhances technology skills</li> <li>Allows for flexible scheduling</li> </ul>	<ul style="list-style-type: none"> <li>Recommended for students who are self-motivated and have good time management skills</li> <li>Students who do not have access to technology at home will be provided access to technology tools and be provided a time and space to complete work</li> <li>It would be beneficial for students to have access to their own technology</li> </ul>
Independent Study	<ul style="list-style-type: none"> <li>Design a study project in an academic area of interest</li> <li>Study topic is student's responsibility and facilitated by a teacher</li> <li>Credit is offered on a pass/fail basis</li> </ul>	<ul style="list-style-type: none"> <li>Provides greater opportunities for highly motivated students to progress beyond the scope of standard course offerings</li> </ul>	<ul style="list-style-type: none"> <li>Recommended for highly motivated, academically strong students</li> <li>Application required</li> </ul>
Link <sup>12</sup> Lakeville	<ul style="list-style-type: none"> <li>Instructional delivery 100% online</li> <li>Learning management systems vary from course to course</li> <li>Part-time or Full-time enrollment</li> </ul>	<ul style="list-style-type: none"> <li>Individualized learning</li> <li>Allows for flexible scheduling</li> <li>21st Century skill development</li> </ul>	<ul style="list-style-type: none"> <li>Recommended for self-directed independent learners</li> <li>Application, registration and orientation session required</li> </ul>
Post-Secondary Enrollment Options (PSEO)	<ul style="list-style-type: none"> <li>Allows juniors/seniors to enroll at participating colleges with tuition, books, fees paid by state of Minnesota</li> <li>* Sophomores may participate on a limited basis</li> </ul>	<ul style="list-style-type: none"> <li>Earn high school and college credit at college at institution where PSEO coursework is taken</li> <li>PSEO credits may transfer to other postsecondary institutions</li> <li>Some PSEO courses are offered online</li> </ul>	<ul style="list-style-type: none"> <li>Must meet criteria established by post-secondary school</li> <li>Grades are not weighted</li> <li>Must provide own transportation</li> <li>Funds are available to pay transportation expenses for qualifying students</li> </ul>
Rigorous Course Waiver	<ul style="list-style-type: none"> <li>Basic state standards can be waived by taking courses with higher level of rigor</li> </ul>	<ul style="list-style-type: none"> <li>Allows students to take additional courses</li> <li>More rigorous course work</li> </ul>	<ul style="list-style-type: none"> <li>Students should consult with Dean about four-year plan</li> </ul>

## Academic Credit Options at a Glance

Option	Explanation	Advantages	Considerations
Technical Skills Assessments	<ul style="list-style-type: none"><li>• Performance-based assessment where students demonstrate the application of their knowledge and skills.</li><li>• Aligned to industry-recognized standards along with state or national industry or trade standards</li></ul>	<ul style="list-style-type: none"><li>• Students can earn a certificate in career and technical education programs such as family and consumer science, and STEM/ Industrial technology courses</li><li>• Assessment is paid for by Perkins grant funds</li></ul>	<ul style="list-style-type: none"><li>• Certification can provide advantages in obtaining employment</li></ul>

## Advanced Placement (AP)

Students may take Advanced Placement (AP) courses for an opportunity to receive college credit. Students must achieve a score of a 3, 4 or 5 on the AP test given in the spring to be considered for college credit. However, each college makes a determination whether or not they will accept the credits. These courses are designated throughout the Program of Studies. Generally, Minnesota state colleges accept the credit.

College Board, a non-profit organization dedicated to preparing, inspiring, and connecting students to college, sponsors the AP program. The College Board writes and administers advanced tests and studies in almost 40 subjects from Art to Statistics. These tests, representative of freshman level college knowledge on that subject, form the basis of what is studied in AP courses. Currently, Lakeville offers 23 AP courses with the intent of challenging students and better prepare them for college. Each May, students may choose to take a national test that measures their knowledge in the areas they studied during the year. If a student scores high enough, they will receive college credit at over multiple post-secondary institutions nationwide.

### Test Registration

Registration for the AP exams begins in the fall via an online registration and ordering system. Personalized registration labels will be supplied for each student included in the exam order, eliminating the need for pre-administration sessions. Students are able to take an AP exam even if they did not take the course. Each year the state pays part of the College Board exam fee, and the student pays the remainder. Due to the test-ordering deadline, late registrations will not be accepted. The registration payment is non-refundable after the deadline. College Board predetermines testing dates.

### Weighted Grades

Advanced Placement course GPA points equals standard grades points plus one. For example: Letter grade "A" = 5.0

## Articulated Credit

Articulated credit is a way of earning credit at the high school level and college level at the same time. Certain courses taken at the high school in the Business, Family and Consumer Science and STEM/Industrial Technology departments are eligible for articulated credit. Eligible courses are identified in the individual course descriptions. Students will receive credit certificates for the number of credits they successfully complete. Some certificates are for partial credit for a college course. When students enroll in the course at college, they will only need to pay for the number of credits not covered by the certificate. The college makes the determination on all credit allocations.

## AVID

AVID (Advancement Via Individual Determination) is a program to prepare students who are in the academic middle for four-year college eligibility. It has a proven track record in bringing out the best in students, and in closing the achievement gap.

The AVID program is offered at Lakeville North, Lakeville South, and Lakeville Area Learning Center all four years of high school. Students are admitted into this program by application only. There may be an opportunity to take PSEO classes from a college and earn college credit. Contact your Dean for more information.

The AVID Elective - Students are enrolled in rigorous classes, such as honors and Advanced Placement, and in the AVID elective. For one period a day, students learn organizational and study skills, work on critical thinking and asking probing questions, get academic help from peers and tutors, and participate in enrichment and motivational activities that make college seem attainable. The AVID curriculum is driven by the writing, inquiry, collaboration, organization and reading method (WICOR). The specialized curriculum is used in AVID elective classes and in content-area classes.

The AVID Student - AVID targets students in the academic middle who have the desire to go to college and the willingness to work hard. These students are capable of completing rigorous curriculum but need a little support to reach their potential.

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

CLEP is a College Board program that allows students to earn college credit by demonstrating their mastery of college-level material in introductory subjects. Students may transfer the credit ("P" letter grade) to the high school transcript. Costs for the exams vary and are incurred by the family. For additional information, go to [clep.collegeboard.org](http://clep.collegeboard.org).

## **Concurrent Enrollment**

Concurrent enrollment allows qualified high school students to earn college credit in their high school during the regular school day. Several programs are currently offered: College Now through Southwest Minnesota State University for AP Chemistry and Pre-Calculus at Lakeville South High School, and Project Lead the Way through St. Cloud State University for Honors Principles of Biomedical Science, Honors Human Body Systems, and Honors Medical Interventions at Lakeville North High School. Students must earn a B or better in the class, a score of 4 or higher on an end of course exam and then submit a \$100 registration fee to earn college credit for Project Lead the Way courses. Transferability of these credits to other post-secondary institutions is not guaranteed.

Classes are taught by qualified high school teachers and supervised by college faculty members. There is no cost to the student for these courses, providing an outstanding opportunity for students to earn college credit and high school credit at the same time and jump-starting their college careers without incurring additional debt. There are criteria established by each concurrent enrollment program such as earning a minimum grade in the course, or a certain score on an end of course exam, or paying a fee for application, that need to be met in order for the credit to be transcribed at the college level.

# Credit by Assessment

Students can receive credit for any course offered by the district in any subject area if the student is able to demonstrate the outcomes for the course. If the student completes the assessment process in a satisfactory manner, the student's transcript will show the credit earned and a course grade of A, A-, B+ or B. Depending on the course, students may earn a semester credit, a full year credit, or in the case of a full-year course, a student could be given credit for just one of the semesters.

## Credit by Assessment Procedure:

Student requests application from Dean's Office (or downloads from website), obtains a parent's signature and meets with Dean of Students

1. Student meets with the department chair to obtain materials and establish assessment plan
2. Student brings the form with assessment plan back to the Dean's Office to be copied and filed
3. Student independently studies and/or completes materials needed for assessment
4. Assessment is completed or materials presented for evaluation
5. Credit is awarded if assessment results in a grade of B or higher (83%)
6. A letter grade is awarded (not pass/fail)

## Notes:

Resources are provided. Tutoring, instruction or remediation is not provided.

Assessment procedures may include paper and pencil tests, portfolios, demonstration of skills, and production of materials or other such methods as agreed upon by the department chair or designated instructor and the student.

Students may not complete credit by assessment for any course in which they have received a passing grade

Upon completion of credit by assessment student has three choices:

1. Credit by Assessment grade for high school credit is placed on transcript (in accordance with State of Minnesota Statute)
2. Student may choose to take the course and have the grade earned in the class placed on the transcript
3. Student may reattempt the credit by assessment process with a plan in place for relearning

Credit by assessment is offered January, May, and August and needs to be completed prior to the start of a semester.



## Credit/No Credit

Students may take one credit per semester on a credit/no credit basis. This option is to encourage students to explore interests in subjects in which they may not be willing to risk getting a low grade. Any student who is interested in taking a course on a credit/no credit basis should discuss arrangements with his/her parents(s), Dean and teacher. Forms are available in the Dean's or Student Services Office. The deadline for submitting the request to the Dean's Office is prior to the end of 1st quarter for first semester requests and/or prior to the end of 3rd quarter for second semester requests.

- Students who are preparing for a career where this course is a prerequisite should take the course and be graded under the conventional system.
- Students must realize that once they sign up for this grading option, they cannot change grading systems (back to an "A" – "F" grading system) during the course.
- All students requesting the Credit/No Credit grading system in a course will continue to take all tests, turn in all regular class work, and receive grades along with other students. Only the final mark is a "P" or "F".
- Students should complete the form, obtain parent approval, teacher approval, and bring this form to the Deans' Office. For yearlong courses, the Credit/No Credit option must be requested each semester the student desires to take the Credit/No Credit option.
- If a student earns 60% or higher, the course will not be in computations determining the student's grade point average or class rank. If a student fails the class, (below 60%), the F grade will be calculated in the grade point average.
- If a student receives a D- or higher, they receive credit for the course. The credit will count toward meeting graduation requirements.
- Attention student-athletes: NCAA assigns a 1.0 or the equivalent of a "D" for any course taken under the Credit/No Credit (pass/fail) grading option.

## Credits Obtained from Other Institutions

The district must be notified prior to the student taking any course in order for it to be considered for future high school credit attainment. The course must be equivalent or beyond Lakeville Area Public Schools course sequence. The course description and syllabus may be requested for review. Students must meet with their Dean prior to registering for the course.

## Credit Recovery

The Lakeville Area Learning Center program is designed for students that need to recover credits in order to graduate. This allows students to maintain status and graduate with their class. Courses are offered during the day and after regular school hours. Students must meet eligibility criteria in order to enroll. Courses offered are English, social studies, science, math & some elective areas.

## Hybrid Courses

Hybrid courses include face-to-face instruction in the classroom part of the time and independent online learning activities the remainder of the time. These courses meet the same Minnesota State Standards and Lakeville Essential Learnings as traditional courses. Schoology is the educational platform used to host the courses. Hybrid courses allow students to experience an online course and develop digital learning skills. Courses that will be offered in the hybrid format are designated throughout the Program of Studies and on the Course Selection Form. Students taking hybrid courses are permitted to leave the building during their hybrid course on non-seminar days. Students staying in the building on a non-seminar day must remain in the assigned hybrid area. Students who do not have access to technology at home will be provided access to technology tools and be provided a time and space to complete work.

## High School Online Courses

Online courses are taught completely online with no face-to-face contact with the teacher. Learners access primary content and instruction from an online environment using a variety of tools including email, chat, discussion boards, web pages, and multimedia technologies. Specific technologies employed will vary by course and instructor. Students taking online courses are permitted to leave the building during the class period in which the course is scheduled, following the required sign out procedure. Students staying in the building must remain in the assigned online area. Students who do not have access to technology at home will be provided access to technology tools and be provided a time and space to complete work.

## Independent Study

Independent Study refers to a course conducted with an instructor as a mentor, enabling the student to explore a topic of interest. Independent Study provides students an opportunity to expand their expertise in a particular area, explore a topic in detail, or develop advanced skills. Independent Study is available to seniors to earn a semester credit in a course not offered by the high school. An application is required. Upon successful completion of the Independent Study course the student will be issued a "pass" for the semester credit.

## Link<sup>12</sup> Lakeville

Link<sup>12</sup> Lakeville is a comprehensive, statewide online school through which students can earn a Lakeville diploma. This academic option is for families and students looking for anytime, anywhere learning that includes individualized instruction, flexibility in pace and schedule, responsiveness to learning styles and self-selection of learning environment. Students who benefit from this option should be self-directed, independent learners. Even though students do their learning outside of a school building, they will receive a high-quality educational experience that meets the state and local standards. A student enrolled in more than 50% of their courses through Link<sup>12</sup> Lakeville, becomes a Link<sup>12</sup> Lakeville student, however, upon graduation will be issued a diploma from Lakeville North High School or Lakeville South High School.

## Post-Secondary Enrollment Option (PSEO)

Postsecondary Enrollment Options (PSEO) is a program that allows 10th-, 11th- and 12th-grade students to earn high school and college credit while still in high school, through enrollment in and successful completion of college-level courses. PSEO courses are generally offered on the campus of the postsecondary institution, however, some courses are offered online. Postsecondary institutions are not allowed to charge PSEO students for tuition, textbooks or support services. Students may be charged for equipment that becomes their property when the course or program is completed or for textbooks that are not returned to the Postsecondary institution according to their policies.

Most PSEO courses are only open to high school students during their 11th- and 12th-grade year, with each participating college and university setting their own requirements for enrollment into the PSEO courses and programs. Additionally, there may be opportunities at industrialization centers accredited by any accreditor recognized by the US Department of Education. Students may take PSEO courses on a full- or part-time basis.

Many two- and four-year colleges and universities in Minnesota offer online courses and some of them offer online degrees and certificates. Through the wide array of online courses offered in Minnesota higher education, it is possible for PSEO students in our state to complete the Minnesota Transfer Curriculum requirements and/or other courses that could result in an award in addition to their high school diploma. School districts must allow a PSEO student reasonable access to the high school building, computers and/or other technology resources during regular school hours to participate in PSEO courses, whether on-line or on campus.

By March 1 of each year, a district must provide up-to-date information on the district's website, and in materials that are distributed to parents and students, about the program--including information about enrollment requirements and the ability to earn postsecondary credit--to all pupils in grades 8, 9, 10, and 11.

Students must meet the PSEO eligibility requirements and abide by participation limits. However, if a school district determines a pupil is not on track to graduate, she/he may still continue to participate in PSEO.

### How to Enroll in PSEO

Interested and eligible 11th- and 12th-grade students should contact the postsecondary institution to find out their eligibility requirements, which courses are offered and what the application process is at that institution. [Access the list of Participating Postsecondary Institutions](#) for a list of schools and their contact information. Interested and eligible public 10th-grade students should contact the postsecondary institution to find out which Career and Technical (CTE) courses are offered and what the application process is at that institution.

To assist the district in planning, students are required to inform their district of their intent to enroll in PSEO courses during the following school year by May 30. Students should meet with their Dean to determine if PSEO is the right fit for them and their academic plan and to obtain more information. Interested students must complete the Postsecondary Enrollment Options Program Registration Form.

### PSEO State-Approved Early/Middle College Programs

PSEO State- Approved Early/Middle College Programs allow eligible students to earn a high school diploma while also earning postsecondary credits or conferring a degree or credential including a

certificate, diploma or an associate's degree. Students are considered eligible if they are enrolled in a core school day State-Approved Alternative Program (SAAP) under the graduation incentives program as defined by MDE. Access a list of currently approved PSEO State-Approved Early/Middle College Programs in Minnesota at the bottom of this page.

### **PSEO for 10th Graders to take Career and Technical Education (CTE) courses**

Legislation allows eligible 10<sup>th</sup> grade students, including 10<sup>th</sup> grade nonpublic and home school students, to enroll initially in one Career and Technical Education (CTE) course through PSEO. If the student earns a "C" or higher grade in this first course, she/he is eligible to take additional CTE courses while in 10<sup>th</sup> grade. In order to be eligible, a 10<sup>th</sup> grade student must have met the proficiency level of "meets or exceeds" on the 8<sup>th</sup> grade MCA reading test. If the student did not take the MCA, another reading assessment accepted by the enrolling postsecondary institution can be substituted.

The Minnesota Department of Education has developed a new Policy entitled: **Minnesota Department of Education Alternative Eligibility Options Policy for 10th Grade Students with a Disability who Wish to Participate in Career and Technical Education Classes through the Postsecondary Enrollment Options Program**. The policy and written procedures are effective December 8, 2015. Access the policy, procedures and the Modification Request Form on the [MN Dept. of Education website](#).

### **Transportation Reimbursement for Qualified Students**

Funds are available to help pay transportation expenses for PSEO students whose families are at or below the poverty level, as determined by the federal government, to participate in PSEO courses on college campuses. [Access the Postsecondary Enrollment Options Mileage Reimbursement Program Instructions](#).

### **Additional information to consider:**

- Students must meet the PSEO residency and eligibility requirements and abide by participation limits specified in the Minnesota Statutes, section 124D.09.
- PSEO credits will be awarded as 1/4 of the college credit amount (for example 4 college credits = 2 high school semester credits or 1 full year)
- Students may earn high school credits under PSEO and do not need to have completed all high school requirements before participating in PSEO
- PSEO grades are not weighted

For current information about the PSEO program, visit the [Minnesota Department of Education's Postsecondary Enrollment Options \(PSEO\) webpage](#)

## Rigorous Course Waiver

Students can waive basic state standards by taking courses with higher rigor. The chart below indicates which state standards specific courses can replace. The rigorous course waiver process provides students with opportunities to take additional courses while in high school.

Rigorous Course	Courses to be Waived
AP Art History	World History
AP Biology	Biology
AP Chemistry	Chemistry
AP European History	World History
AP U.S. Government & Politics	Civics
AP Human Geography	Geography
AP Language & AP Literature	English 11, Speech, English 12, & Media Studies Elective
AP Macroeconomics	Economics
AP Microeconomics	Economics
AP Physics 1	Physics
AP U.S. History	U.S. History
AP World History: Modern	World History

## Technical Skills Assessments

Students will have the opportunity to take a Technical Skills Assessment (TSA) upon the completion of some Career and Technical Education courses. Currently, upon completion of Foods 3, students may take a ServSafe certification exam and upon completion of Building Construction/Applied Architecture may take an OSHA 10 certification exam. If students earn a passing score on the ServSafe exam, they will earn a food handler certificate from foodservice experts, the National Restaurant Association. The OSHA 10 exam assesses an entry-level construction worker's general awareness on recognizing and preventing hazards on a construction site.



# Academic Information

## Common Grading Scale

Grade	Lower Cutoff	Upper Cutoff
A	94%	100%
A-	90%	93%
B+	87%	89%
B	83%	86%
B-	80%	82%
C+	77%	79%
C	73%	76%
C-	70%	72%
D+	67%	69%
D	63%	66%
D-	60%	62%
F	0%	59%
I	0.0	0.0
W	0.0	0.0

## GPA and Class Rank

Grade	Weighted AP Classes	Non-Weighted Classes
A	5.0	4.0
A-	4.7	3.7
B+	4.3	3.3
B	4.0	3.0
B-	3.7	2.7
C+	3.3	2.3
C	3.0	2.0
C-	2.7	1.7
D+	2.3	1.3
D	2.0	1.0
D-	1.7	0.7



## How to Figure GPA

1. Add point values for classes.
2. Divide by the number of classes marked

Class rank is determined by the numerical comparison of class members' cumulative GPA's. Class rank and grade point average are calculated on the basis of credits earned. PSEO and University of Minnesota Talented Youth Mathematics Program (UMTYMP) grades are reflected on the transcript. PSEO, UMTYMP and concurrent credit grades are not weighted but are calculated into GPA and class rank. Honors courses are not weighted. Only Advanced Placement courses are weighted.

Credits transferred (from another high school or any accredited institution) may be credited toward state and district graduation requirements. Disclosure of students' relevant high school academic records, wherever their credits have been earned, will be provided by Lakeville High Schools to post-secondary institutions to the extent permitted by Minnesota law.

All transferred classes/credits entered on the student's transcript will be counted in the cumulative grade point average and class rank, unless recorded as a grade of "P" which has no effect on GPA.

## Incomplete Grades

Students who, for acceptable reasons (e.g. illness, family emergency), receive an incomplete mark ("I") at the end of the quarter/semester will have two weeks to complete coursework and required assessments. Incomplete grades posted on a transcript count as a zero toward cumulative GPA. After the two-week period, the grade will be issued. Exceptions may be granted when special circumstances exist.

## Academic Lettering

Students must obtain a 3.7 or higher GPA during two consecutive semesters to be eligible for an Academic Letter. Subsequent awards can be attained with two additional semesters of a 3.7 or higher GPA.

### Post-Secondary Planning Considerations

The best way to academically prepare for a four-year college or university is for students to challenge themselves while in high school by taking rigorous courses in core subjects. Even if students have completed the high school's graduation requirements, it will increase chances for success in college by taking more advanced mathematics, science, English and social studies courses.

Most four-year colleges and universities require the following, at a minimum, for admission:

- Four years of English (including studies of writing and literature)
- Three and one-half years of social studies (including one year each of U.S. history and geography)
- Three years of mathematics (including two years of algebra and one year of geometry)
  - \*\*\*Some colleges are now requiring four years of math
- Three years of science (including one year each of a biological and physical science)
- Two years of a single world language
- One year of either world culture or fine arts

Public two-year colleges accept all high school graduates and GED holders. However, some programs offered at these schools are more selective and have higher admissions standards and waiting lists to get in. Some students find they must spend a semester or even two just getting ready to enter a two-year career program by taking basic required courses they could have taken in high school. That is why high school preparation is so important. Students who master core subjects while in high school save money and time in college.

\*\*\*Four years of math is required for admission to the University of Minnesota's Twin Cities, Duluth, Morris, and Rochester campuses.\*\*\*

## Associate Degrees

Associate degree programs require the equivalent of two years of full-time study. They are designed to either prepare individuals for an occupation, or to provide a foundation for the completion of a bachelor's degree. Some general education courses are included in associate degree programs such as English and mathematics.

## Bachelor's Degrees

All baccalaureate or bachelor's degrees require the equivalent of at least four years of full-time study. The degree includes both general courses and advanced course work in a defined area of study, typically called a major. There are hundreds of programs of study that lead to a Bachelor of Arts (B.A.), Bachelor of Science (B.S.), or discipline-specific bachelor's degrees such as the Bachelor of Music or the Bachelor of Fine Arts.

## College Entrance Exams

Four-year colleges and universities in Minnesota require that students perform satisfactorily on an entrance test such as the American College Test (ACT) or Scholastic Aptitude Test (SAT). The ACT tests four areas including English, math, science, and reading. There is also an optional 30-minute writing test that students may request when registering for the ACT. It is not possible to register for a separate ACT Writing Test; it must be taken in addition to and at the same time as four subject area tests. More information about the ACT Assessment and the Writing Test is available at ACT.org. Students should check if the writing portion is required for admission to their potential college. The SAT contains three sections: critical reading, math, and writing. An optional essay section is based on reading a passage, analyzing it and composing an essay in a 50-minute time period. Students should check if the essay portion is required for admission to their potential college. More information about the SAT is available at College Board.org.

**Lakeville North High School's testing code is 241-325**

**Lakeville South High School's testing code is 241-326**

**Lakeville Link<sup>12</sup> School's testing code is 241-327**



# ART

Art is a subject that can be learned by all students. Students are exceptionally attuned to what they see around them, and in art classes students will look for the meaning within images, discuss ideas, discover artists, use their own experiences and develop an understanding of what is happening within the student, the community, and the world as a source of content for their artwork. Art foundations and skill development are strong components of the curriculum. It is the philosophy of the art department to teach students to prepare work for display and provide opportunities and encourage their best work.

**Student Contributions:** Art courses are hands-on, so attendance is crucial. Each student is expected to spend at least two hours per week preparing for class. Projects will be assigned with specific criteria and deadlines. Field trips will be offered to students during the semester whenever appropriate exhibitions enhance the curriculum.

All art courses meet the requirements for the academic standards in the arts.

## Minnesota Academic Standards in the Arts

### Strand I: Artistic Foundations

Standard 1: Demonstrate knowledge of the foundations of the art area.

Standard 2: Demonstrate knowledge and use of the technical skills of the art form integrating technology when applicable.

Standard 3: Demonstrate understanding of the personal, social, cultural, historical contexts that influence the art areas.

### Strand II: Artistic Process: Create/Make

Standard 1: Create/make in a variety of contexts in the art area using the artistic foundations.

### Strand III: Artistic Process: Perform/Present

Standard 1: Perform/Present in a variety of contexts in the art area using the artistic foundations.

### Strand IV: Artistic Process:

Respond/Critique Respond to and critique a variety of creations or performances using the artistic foundations.

## Advanced Placement (AP) Studio Art

**FAA-A00-11 / FAA-A00-12** ► In-Person

Grades: 11-12	Course Duration: Year-long
Fulfills Arts or Elective Requirement for Graduation	
Prerequisite: Drawing, Painting and Advanced 2D Art; or Photography 1 and 2; or Graphic Art and Design 1 and 2 and instructor approval	

### Course Description:

This course is the study of the practical experience of art.

The primary units of study include those determined by student interest. Students have the option of creating a portfolio in one of the following areas: drawing, 2-D design, or 3-D design.

The students will demonstrate learning through a portfolio, which shows a fundamental competence and range of understanding in visual concerns and methods.

### Course Recommendation:

AP Studio Art is recommended for students who are seriously interested in the practical experience of art.

### Board Approved Primary Resource:

Responding to Art  
Robert Berrson - McGraw-Hill – 2004 – Print  
ISBN: 9780072829396

### Additional Registration Information:

A fee will be assessed for any projects taken home. Students may purchase higher quality materials than offered as part of the course. There is no written exam for AP Studio Art.

## Art Lab

**FAA-100-00** ► In-Person

Grades: 9-12	Course Duration: Semester-long
Fulfills Arts or Elective Requirement for Graduation	
Prerequisite: None	

### Course Description:

This course is the study of drawing, painting, 2-D design, computer design, ceramics, painting, printmaking, and art history. The assignments for Art Lab reflect a sampling of all Art courses taught at the high school level.

The primary units of study include technical skills, expression, and artistic styles that will give students a better understanding of the mediums listed above.

The students will demonstrate learning through daily work, craftsmanship, application of design, and procedure. Projects are based on the principles of design and elements of art.

### Course Recommendation:

This course is recommended for students who want to experience of wide variety of artistic techniques including drawing, painting, ceramics, design and mixed media.

### Board Approved Primary Resource:

ArtTalk  
Rosalind Ragans - Glencoe/McGraw-Hill – 2005 – Print  
ISBN: 9780078305993

### Additional Registration Information:

A fee will be assessed for any projects taken home. Students may purchase higher quality materials than offered as part of the course.

## Ceramics 1: Hand Building

**FAA-120-00** ► In-Person

Grades: 9-12	Course Duration: Semester-long
Fulfills Arts or Elective Requirement for Graduation	
Prerequisite: None	

### Course Description:

Ceramics 1 is the study of techniques and processes of developing the three-dimensional form, using three different hand building techniques.

The primary units of study include the three hand building techniques (pinch, coil and slab), the glazing process, and additive and subtractive hand building.

The students will demonstrate learning through creating works of visual art representing their knowledge of the Elements of Art and the Principles of Design. Students will demonstrate knowledge of technique and process and will be tested in these areas.

### Course Recommendation:

This course is recommended for students who aspire to be creative in the three-dimensional form.

### Board Approved Primary Resource:

Claywork

Leon I. Nigrosh - Davis Publications – 1995 – Print

ISBN: 9780871922854

Experience Clay

Maureen Mackey - Davis Pub. – 2003 – Print  
ISBN: 9780871925985

Sculpting Clay

Leon I. Nigrosh - Davis Publications – 1992 – Print

ISBN: 9780871922366

### Additional Registration Information:

A fee will be assessed for any projects taken home. Students may purchase higher quality materials than offered as part of the course.

## Ceramics 2: Pottery Wheel

**FAA-220-00** ► In-Person

Grades: 9-12	Course Duration: Semester-long
Fulfills Arts or Elective Requirement for Graduation	
Prerequisite: Ceramics 1	

### Course Description:

Ceramics 2 is the study of advanced hand-building techniques as well as the introduction to the potter's wheel.

The primary units of study include advanced hand building, use of the potter's wheel, advanced understanding of the glazing process, functional and decorative ceramics and drawing as a form of preparing/brainstorming for upcoming projects.

The students will demonstrate learning through creating works of visual art representing their knowledge of the Elements of Art and the Principles of Design. Students will demonstrate knowledge of technique and process, and will be tested in these areas.

### Course Recommendation:

This course is recommended for students who aspire to be creative in the three-dimensional form.

### Board Approved Primary Resource:

Claywork

Leon I. Nigrosh - Davis Publications – 1995 – Print

ISBN: 978087192228

Experience Clay  
Maureen Mackey - Davis Pub. – 2003 – Print  
ISBN: 9780871925985

Sculpting Clay  
Leon I. Nigrosh - Davis Publications – 1992 – Print  
ISBN: 9780871922366

### Additional Registration Information:

A fee will be assessed for any projects taken home. Students may purchase higher quality materials than offered as part of the course.

## Drawing

**FAA-130-00** ► In-Person

Grades: 9-12	Course Duration: Semester-long
Fulfills Arts or Elective Requirement for Graduation	
Prerequisite: None	

### Course Description:

This course is the study of perceiving and interpreting visual ideas with the Elements of Art and the Principles of Design.

The primary units of study include proportion, shading, perspective, drawing from life and compositional arrangement, use of drawing materials, and techniques in perceiving and interpreting visual ideas.

The students will demonstrate learning through daily work, discussion, various exercises, and major drawing assignments.

### Course Recommendation:

This course is recommended for students who are interested in drawing or want to explore a means of perceiving and interpreting visual ideas.

### Board Approved Primary Resource:

ArtTalk

Rosalind Ragans - Glencoe/McGraw-Hill – 2005 – Print  
ISBN: 9780078305993

Discovering Drawing  
Ted Rose - Davis Publications – 1995 – Print  
ISBN: 9780871922816

Drawing as Expression: Techniques and Concepts  
Sandy Brooke - Prentice Hall – 2002 – Print  
ISBN: 9780130893130

### Additional Registration Information:

A fee will be assessed for any projects taken home. Students may purchase higher quality materials than offered as part of the course.

## Drawing and Painting 2

**FAA-230-00** ► In-Person

Grades: 10-12	Course Duration: Semester-long
Fulfills Arts or Elective Requirement for Graduation	
Prerequisite: Drawing or Painting	

### Course Description:

This course is the study of perceiving and interpreting visual ideas using the Elements of Art and the Principles of Design, advancing the skills, techniques and mediums learned in Drawing and Painting. Students will experiment with multiple mediums not limited to pencil, charcoal, pastels, watercolor and acrylic paint on a variety of surfaces and sizes to create personal images.

Primary units of study will include a combination of drawing and painting assignments that will push the creativity of students to new heights. Projects will include studio assignments, landscapes, color theory, canvas painting, as well as still lifes, drawing from life, and artistic interpretations.



Students will demonstrate learning through daily work, critiques and discussions, various exercises, and major drawings and/or paintings.

### Course Recommendation:

This course is recommended for students who enjoy drawing and painting and are interested in advanced topics in drawing and painting. This course may be taken for credit more than once with increased rigor and expectations for technique, skill and depth of creativity in subsequent semesters.

### Board Approved Primary Resources:

ArtTalk

Rosalind Ragans – Glencoe/McGraw-Hill – 2005 – Print  
ISBN: 9780078305993

Discovering Drawing

Ted Rose – Davis Publications – 1995 – Print  
ISBN: 9780871922816

Drawing as Expression: Techniques and Concepts

Sandy Brooke – Prentice Hall – 2002 – Print  
ISBN: 9780130893130

Discovering Art History

Gerald F Brommer – Davis Publications – 1997  
Print  
ISBN: 9780871922991

Exploring Art History

Gerald F Brommer – Davis Publications – 1997 – Print  
ISBN: 9780871926005

Responding to Art

Robert Bersson – McGraw-Hill – 2004 – Print  
ISBN: 9780072829396

### Additional Registration Information:

A fee will be assessed for any projects taken home. Students may purchase higher quality materials than offered as part of the course.

## Graphic Art & Design 1

FAA-140-00 ► In-Person

Grades: 9-12	Course Duration: Semester-long
Fulfills Arts or Elective Requirement for Graduation	
Prerequisite: None	

### Course Description:

This course is the study and application of drawing and photo manipulation utilizing computer software.

The primary units of study include the exploration of creative design, drawing techniques, and typography lessons using Adobe Illustrator. Photo manipulation and design projects are taught using Adobe Photoshop.

The students will demonstrate learning through projects focusing on knowledge and use of basic tools. Student work will be assessed through evaluation with the Elements of Art and the Principles of Design.

### Course Recommendation:

This course is recommended for students who enjoy working with the creative aspects of computers.

### Board Approved Primary Resource:

Adobe Illustrator CS6

Adobe Press – 2007 – Print and CD ROM  
ISBN: 9780321492005

Adobe Photoshop CS6

Adobe – 2007 – Print and CD ROM  
ISBN: 9780321492029

Graphic Design Solutions

Robin Landa - OnWord Press – 2001 – Print  
ISBN: 9780766813601

### Additional Registration Information:

None



## Graphic Art & Design 2

FAA-240-00 ► In-Person

Grades: 9-12	Course Duration: Semester-long
Fulfills Arts or Elective Requirement for Graduation	
Prerequisite: Graphic Design 1	

### Course Description:

This course is the advanced study of visual communication utilizing computer software.

The primary units of study include designing logos, posters, magazine covers and company advertisements. Graphic Art units of study include creating illustrations and designing elaborate, artistic collages using Photoshop.

The students will demonstrate learning through a variety of creative design projects and an array of photo manipulation assignments. Student work will be assessed through evaluation with the Elements of Art and the Principles of Design.

### Course Recommendation:

This course is recommended for students who thrive on creative thinking in a computer-based class.

### Board Approved Primary Resource:

Adobe Illustrator CS6  
Adobe Press – 2007 – Print and CD ROM  
ISBN: 9780321492005

Adobe Photoshop CS6  
Adobe – 2007 – Print and CD ROM  
ISBN: 9780321492029

Graphic Design Solutions  
Robin Landa - OnWord Press – 2001 – Print  
ISBN: 9780766813601

### Additional Registration Information:

None

## Graphic Art & Design 3

FAA-340-00 ► In-Person

Grades: 10-12	Course Duration: Semester-long
Fulfills Arts or Elective Requirement for Graduation	
Prerequisite: Graphic Art and Design 1 & 2	

### Course Description:

This course is a highly advanced study of visual communication utilizing computer software. Students work directly with local businesses designing an array of unique, stylized artworks tailored to the new styles of printing, and personalized in-depth artwork.

The primary units of study include typography and visual communication through school-specific social media advertising.

The students will demonstrate learning while in a variety of real world situations in this high level and fast-paced program where their work will be viewed by hundreds of people on a daily basis. Student work will be assessed through evaluation with the Elements of Art and the Principles of Design.

### Course Recommendation:

This course is recommended for students who thrive on creative thinking in a computer-based class.

### Board Approved Primary Resource:

Adobe Illustrator CS6  
Adobe Press – 2007 – Print and CD ROM  
ISBN: 9780321492005

Adobe Photoshop CS6  
Adobe – 2007 – Print and CD ROM  
ISBN: 9780321492029

### Additional Registration Information:

None

## Painting

**FAA-150-00** ► In-Person

Grades: 9-12	Course Duration: Semester-long
Fulfills Arts or Elective Requirement for Graduation	
Prerequisite: None	

### Course Description:

This course is the study of fine art painting using tempera, watercolor, oil pastel, and acrylic paints on various painting surfaces.

The primary units of study include studio painting, landscapes, still life, pictorial composition, and color theory.

The students will demonstrate learning through critiques, discussions, and a variety of painting exercises that demonstrate an exploration of painting techniques, art appreciation, aesthetics, representing their knowledge of the Elements of Art and the Principles of Design and color studies.

### Course Recommendation:

This course is recommended for students who are interested in painting.

### Board Approved Primary Resource:

Discovering Art History  
Gerald F.Brommer - Davis Publications – 1997  
– Print  
ISBN: 9780871922991

Exploring Painting  
Gerald F.Brommer - Nancy K.Kinne - Davis Publications – 2003 – Print  
ISBN: 9780871926005

Responding to Art  
Robert Bersson - McGraw-Hill – 2004 – Print  
ISBN: 9780072829396

### Additional Registration Information:

A fee will be assessed for any projects taken home. Students may purchase higher quality

materials than offered as part of the course. Each student will be encouraged to develop a profile of paintings through personal expression as well as painting techniques.

## Photography 1 (Digital Only)

**FAA-160-00** ► In-Person (South)

Grades: 9-12	Course Duration: Semester-long
Fulfills Arts or Elective Requirement for Graduation	
Prerequisite: None	

### Course Description:

This course is the study and creation of photographic composition and use of the elements and principles of art in photography.

The primary units of study include the elements and principles of art in photographs, using a DSLR digital camera with a working shutter speed and aperture, composition, lighting, and editing digital photos using Adobe Photoshop Lightroom Classic.

The students will demonstrate learning through quizzes, projects and photo shoots.

### Board Approved Primary Resource:

The Photographic Eye: Learning to See With a Camera  
Michael O'Brien - Norman Sibley - Davis Publications – 1995 – Print  
ISBN: 9780871922830

Photography 2nd Edition  
Bruce Warren - Delmar Publishers – 2002 – Print  
ISBN: 9780766817777

Photography 8th Edition  
Barbara London - Prentice Hall – 2005 - Print  
ISBN: 9780131896093

Understanding Digital Photography  
Joseph A. Ippolito - Thomson/Delmar  
Learning – 2003 – Print  
ISBN: 9780766820791

### Additional Registration Information:

Operating a digital camera is an integral part of this course. Students will need a digital camera with a working shutter speed and aperture controls for this course in order to take photos outside of school. A limited number of cameras will be available for students to check out for the semester. The course is offered at LSHS only. LNHS students provide their own transportation.

## Photography 1 (Digital and Film)

**FAA-170-00** ► In-Person (North)

Grades: 9-12	Course Duration: Semester-long
Fulfills Arts or Elective Requirement for Graduation	
Prerequisite: None	

### Course Description:

This course is the study of black and white film using a 35mm SLR camera, and digital photography using a DSLR camera.

The primary units of study include camera functions, film exposure and development, composition, darkroom procedures, print finishing, critiques, evaluations, and digital editing techniques.

The students will demonstrate learning through a variety of photo shoots focusing on different types of composition, hand coloring, portraiture, print presentation and an opportunity to concentrate on subject matter of personal choice as well as editing techniques using Photoshop and Lightroom Classic.

### Course Recommendation:

This course is recommended for students interested in taking and developing photos in a darkroom or on a computer.

### Board Approved Primary Resource:

The Photographic Eye: Learning to See With a Camera

Michael O'Brien - Norman Sibley - Davis  
Publications – 1995 – Print  
ISBN: 9780871922830

Photography 2nd Edition

Bruce Warren - Delmar Publishers – 2002 – Print  
ISBN: 9780766817777

Photography 8th Edition

Barbara London - Prentice Hall – 2005 - Print  
ISBN: 9780131896093

Understanding Digital Photography  
Joseph A. Ippolito - Thomson/Delmar  
Learning – 2003 – Print  
ISBN: 9780766820791

### Additional Registration Information:

Operating a manual SLR 35mm camera is an integral part of this course. Students will need a manual SLR 35mm camera for this course to take photos outside of school. A limited number of cameras will be available for students to check out for the semester. A fee will be assessed for any projects taken home. Students may purchase higher quality materials than offered as part of the course. The course is offered at LNHS only. LSHS students provide their own transportation.

# Photography 2 Hybrid (Digital and Film)

**FAA-270-00H** ► Hybrid (North)

Grades: 10-12	Course Duration: Semester-long
Fulfills Arts or Elective Requirement for Graduation	
Prerequisite: Photography 1	

## Course Description:

This course is the advanced study of digital photography, film photography, camera exposures, lighting, darkroom techniques, motion, light painting and compositional styles. Students will also explore a variety of matting and printing options for their photos.

The primary units of study include advanced camera functions, film exposure and development, composition, darkroom procedures, print finishing, critiques, evaluations, and digital editing techniques. The standard method of editing digital photos will be through Adobe Lightroom Classic.

The students will demonstrate learning through a variety of assignments that will focus on film and digital photography, historical aspects of photography, darkroom manipulation and camera exposure settings.

## Course Recommendation:

This course is recommended for students who want to expand on their learning from Photography 1.

## Board Approved Primary Resource:

The Photographic Eye: Learning to See With a Camera  
Michael O'Brien - Norman Sibley - Davis Publications – 1995 – Print  
ISBN: 9780871922830

Photography 2nd Edition  
Bruce Warren - Delmar Publishers – 2002 – Print  
ISBN: 9780766817777

Photography 8th Edition  
Barbara London - Prentice Hall – 2005 - Print  
ISBN: 9780131896093

Understanding Digital Photography  
Joseph A. Ippolito - Thomson/Delmar Learning – 2003 – Print  
ISBN: 9780766820791

## Additional Registration Information:

Operating a manual SLR 35mm camera and a DSLR camera is an integral part of this course. Students will need a DSLR Camera with a working Shutter speed dial and Aperture controls to manually control the light entering their cameras when taking photos outside of school. A limited number of cameras will be available for students to check out for the semester. A fee will be assessed for any projects taken home. Students may purchase higher quality materials than offered as part of the course. The course is offered at LNHS only. LSHS students provide their own transportation. The hybrid method will allow for students to spend part of the week getting off campus to take their photos while in class time will be spent editing photos and having class critiques on photos submitted.



## Advancement Via Individual Determination (AVID)

AVID is a college-preparatory program for those students who are academically in the middle and lack college preparedness. The students are enrolled in rigorous classes, such as honors and Advanced Placement, and in the AVID elective. For one period a day, students learn organizational and study skills, work on critical thinking and asking probing questions, get academic help from peers and tutors, and participate in enrichment and motivational activities that make college seem attainable. The AVID curriculum is driven by the writing, inquiry, collaboration, organization, and reading (WICOR) method. The specialized curriculum is used in AVID elective classes and in content-area classes. An application and interview are required for admission.

## AVID 9

**SIA-109-11 / SIA-109-12** ► In-Person

Grades: 9	Course Duration: Year-long
Fulfills Elective Requirement for Graduation	
Prerequisite: Application Process	

### Course Description:

Advancement Via Individual Determination (AVID) is the study of college-readiness, which prepares students for entrance into a four-year college.

The primary units of study include analytical writing, preparation for college entrance and placement exams, study skills and test taking, note taking, and research. The focus of the ninth grade year is organization and study skills.

The students will demonstrate learning through a portfolio containing Focus notes, tutor-led study sessions, and academic survival skills.

### Course Recommendation:

This course is recommended for students who have a desire to go to college and would like support in achieving that goal.

### Board Approved Primary Resource:

None

### Additional Registration Information:

An application and interview are required for admission. Enrollment in the course also encourages participation in extracurricular activities, enrollment in a rigorous class schedule, and commitment to volunteering.

## AVID 10

**SIA-110-11 / SIA-110-12** ► In-Person

Grades: 10	Course Duration: Year-long
Fulfills Elective Requirement for Graduation	
Prerequisite: AVID 9 or Application Process	

### Course Description:

Advancement Via Individual Determination (AVID) is the study of college-readiness, which prepares students for entrance into a four-year college.

The primary units of study include analytical writing, preparation for college entrance and placement exams, study skills and test taking, note taking, and research. The focus of the tenth-grade year is writing and test-taking skills.

The students will demonstrate learning through a portfolio containing Focus notes, tutor-led study sessions, and academic survival skills.

### Course Recommendation:

This course is recommended for students who have a desire to go to college and would like support in achieving that goal.

### Board Approved Primary Resource:

None

### Additional Registration Information:

An application and interview are required for admission. Enrollment in the course also encourages participation in extracurricular activities, enrollment in a rigorous class schedule, and commitment to volunteering.

## AVID 11

**SIA-111-11 / SIA-111-12 ► In-Person**

Grades: 11	Course Duration: Year-long
Fulfills Elective Requirement for Graduation	
Prerequisite: AVID 10 or Application Process	

### Course Description:

Advancement Via Individual Determination (AVID) is the study of college-readiness, which prepares students for entrance into a four-year college.

The primary units of study include analytical writing, preparation for college entrance and placement exams, study skills and test taking, note taking, and research. The focus of the eleventh-grade year is college and career planning.

The students will demonstrate learning through a portfolio containing Focus notes, tutor-led study sessions, and academic survival skills.

### Course Recommendation:

This course is recommended for students who have a desire to go to college and would like support in achieving that goal.

### Board Approved Primary Resource:

None

### Additional Registration Information:

An application and interview are required for admission. Enrollment in the course also encourages participation in extracurricular activities, enrollment in a rigorous class schedule, and commitment to volunteering. Completion of both AVID 11 and AVID 12 will fulfill the Career Portfolio Job Shadow and Senior Interview requirement.

## AVID 12

**SIA-112-11 / SIA-112-12 ► In-Person**

Grades: 12	Course Duration: Year-long
Fulfills Elective Requirement for Graduation	
Prerequisite: AVID 11 or Application Process	

### Course Description:

Advancement Via Individual Determination (AVID) is the study of college-readiness, which prepares students for entrance into a four-year college.

The primary units of study include analytical writing, preparation for college entrance and placement exams, study skills and test taking, note taking, and research. The focus of the twelfth-grade year is completing college applications and scholarships.

The students will demonstrate learning through a portfolio containing Focus notes, tutor-led study sessions, and academic survival skills.

### Course Recommendation:

This course is recommended for students who have a desire to go to college and would like support in achieving that goal.

### Board Approved Primary Resource:

None

### Additional Registration Information:

An application and interview are required for admission. Enrollment in the course also encourages participation in extracurricular activities, enrollment in a rigorous class schedule, and commitment to volunteering. Completion of both AVID 11 and AVID 12 will fulfill the Career Portfolio Job Shadow and Senior Interview requirement.





# BUSINESS

Did you know that business is the #1 self-selected college major on the ACT test? Are you interested in a career in business, marketing, or technology? Courses in the Business, Marketing, and Technology department will help prepare you for this career. In addition, courses are mostly offered in a hybrid or online instructional delivery. This reflects the trend in education and the business world to instill independent thinking, organizational and problem-solving skills. With a changing work environment follows a changing educational environment. This delivery method will prepare students for the real world beyond high school.

The Business, Marketing and Technology department will help you acquire the skills needed to be successful in the world of work and/or ready for college. Advertising, accounting, sales, personal finance, sports marketing, employability, keyboarding, office applications, entrepreneurship, public relations, and market research are just a sampling of the skills and areas that you will learn about in the Business, Marketing and Technology department.

Some of our courses offer college credit through articulated credits. Also, all students in business, marketing, and technology courses are invited to join the DECA club and have the potential to compete at the local, state, and national career development conferences.

## Accounting 1

**BEF-100-00** ► In-Person (North)

**BEF-100-00H** ► Hybrid (South)

**BEF-100-00V** ► Virtual (South)

**BEF-100-00L** ► Online (Link<sup>12</sup>)

Grades: 10-12	Course Duration: Semester-long
Fulfills Math Elective or Elective Requirement for Graduation	
Prerequisite: None	

### Course Description:

This course is the study of accounting procedures for starting a business and creating financial statements for a service and merchandising business. Students will experience the accounting cycle using computers to simulate accounting transactions.

The primary units of study include the accounting cycle for a proprietorship and corporation including payroll and cash controls.

The students will demonstrate learning through projects, daily work, tests, and participation in class.

### Course Recommendation:

This course is designed for those students interested in majoring in business or owning their own business.

### Board Approved Primary Resource:

Century 21 Accounting: Multicolumn Journal  
Claudia Bienias Gilbertson - Mark W. Lehman  
- South-Western Cengage Learning – 2009 –  
Print  
ISBN: 9780538447058

### Additional Registration Information:

Students in this course have the opportunity to earn high school credit as well as college credit(s) through Articulated Credit.

## Accounting 2

**BEF-200-00** ► In-Person (North)

**BEF-200-00H** ► Hybrid

**BEF-200-00V** ► Virtual (South)

Grades: 10-12	Course Duration: Semester-long
Fulfills Math Elective or Elective Requirement for Graduation	
Prerequisite: Accounting 1	

### Course Description:

This course is the in-depth study of accounting theory, including procedures for starting a business and creating financial statements for merchandising business. Students will experience the accounting cycle using computers to simulate accounting transactions.

The primary units of study include the accounting cycle for a manufacturing business organized as a corporation including uncollectible accounts, plant assets, depreciation, inventory, notes payable and receivable, accruals, and internet sales.

The students will demonstrate learning through projects, daily work, tests, and participation in class.

### Course Recommendation:

This course is designed for those students interested in majoring in business or owning their own business.

### Board Approved Primary Resource:

Century 21 Accounting: Multicolumn Journal  
Claudia Bienias Gilbertson - Mark W. Lehman  
- South-Western Cengage Learning – 2009 –  
Print  
ISBN: 9780538447058

### Additional Registration Information:

Students in this course have the opportunity to earn high school credit as well as college credit(s) through Articulated Credit.

## Business Communication

**BEZ-170-00** ► In-Person (North)

**BEZ-170-00H** ► Hybrid

**BEZ-170-00V** ► Virtual (South)

Grades: 9-12	Course Duration: Semester-long
Fulfills English Language Arts Media Studies Elective or Elective Requirement for Graduation	
Prerequisite: None	

### Course Description:

This course is the study of the role of communication in organizations and the various skills needed to become more effective as individuals in organizational settings.

The primary units of study include the communication contexts of correspondence, proposals, interviews, meetings, teamwork, and presentations. Additional topics will include organizational culture and change, cultural and ethical issues, interpersonal relations, and conflict and negotiation.

The students will demonstrate learning through the creation of business correspondence using various print and digital media.

### Course Recommendation:

This course is recommended for students who have a business focus.

### Board Approved Primary Resource:

Business Communication 2nd Edition  
Thomas L Means - Dianne S Rankin - South-  
Western Cengage Learning – 2010 – Print  
ISBN: 9780538449472

### Additional Registration Information:

Students in this course have the opportunity to earn high school credit as well as college credit(s) through Articulated Credit. This course does not meet the requirements for NCAA approved core courses. See your Dean for more information.

## Business Economics

**BEE-100-00H** ► Hybrid (North)

**BEE-100-00V** ► Virtual (North)

Grades: 11-12	Course Duration: Semester-long
Fulfills Economics or Elective Requirement for Graduation	
Prerequisite: None	

### Course Description:

This course is the study of the principles of economics that apply to the functions of individual decision makers, both consumers and producers, within the economic system.

The primary units of study include the nature and functions of product markets including the study of factor markets and of the role of government in promoting greater efficiency and equity in the economy.

The students will demonstrate learning through class participation, written assignments, written and oral projects, as well as written tests and quizzes.

### Course Recommendation:

This course is recommended for students highly interested in business to expand their knowledge to economic concepts.

### Board Approved Primary Resource:

TBD

### Additional Registration Information:

The course is offered at LNHS only. LSHS students provide their own transportation.

## Career Investigations

**BEZ-100-00** ► In-Person (North)

**BEZ-100-00H** ► Hybrid

**BEZ-100-00V** ► Virtual (South)

Grades: 9-12	Course Duration: Semester-long
Fulfills Senior Interview and Job Shadow Requirement and the Elective Requirement for Graduation	
Prerequisite: None	

### Course Description:

This course is the study of evaluating postsecondary educational options and careers while developing career skills such as job searching and interviewing.

The primary units of study include eMentoring, post-secondary options, job searching and interviewing skills.

Students will demonstrate learning through assignments, presentations, participation, and a career portfolio. This class will provide an opportunity to connect (eMentor) with professionals in the workplace.

### Course Recommendation:

This course is recommended for students interested in exploring their college and career options.

### Board Approved Primary Resource:

Investigating Your Career  
Ann Jordan – Lynne Whaley – South-Western  
Cengage Learning – 2003 – Print  
ISBN: 9780538436694

### Additional Registration Information:

Students in this course have the opportunity to earn high school credit as well as college credit(s) through Articulated Credit. It is a computer-based class and requires the student to be organized and self-motivated. Completion of this course satisfies the Job Shadow and Senior Interview components of the Career Portfolio.

## Digital Media: Game and Web Development

**BEZ-120-00** ► In-Person (South)

**BEZ-120-00H** ► Hybrid (South)

**BEZ-120-00V** ► Virtual (South)

Grades: 10-12	Course Duration: Semester-long
Fulfills Arts or Elective Requirement for Graduation	
Prerequisite: None	

### Course Description:

This course is the study of developing interactive media. Students learn introductory skills using industry standard software to create, edit, and process digital media content for use in specific applications such as an interactive game and website.

The primary units of study include the fundamentals of programming and graphic development with respect to game and web development.

The students will demonstrate learning through creating projects and presenting media-based websites.

### Course Recommendation:

This course is recommended for students who are interested in exploring game development and web design.

### Board Approved Primary Resource:

Industry Software

### Additional Registration Information:

Students in this course have the opportunity to earn high school credit as well as college credit(s) through Articulated Credit. This course is offered at LSHS only. LNHS students provide their own transportation. Colleges and universities may or may not accept this course as an Arts credit for admission purposes.

## Introduction to Business, Marketing & Technology

**BEZ-130-00** ► In-Person (North)

Grades: 9-12	Course Duration: Semester-long
Fulfills Elective Requirement for Graduation	
Prerequisite: None	

### Course Description:

This is an introductory course designed to help students discover the business, marketing, management, entrepreneurship and information technology career clusters.

The primary units of study include the basics of business operations, management, international business, the fundamentals of marketing, and the use of technology in business.

The students will demonstrate learning through assignments, presentations, and participation.

### Course Recommendation:

This course is recommended for students interested in exploring all aspects of business.

### Board Approved Primary Resource:

Business Principles and Management  
Jim Burrow - Brad Alan Kleindl - Kenneth E. Everard - Thomson Learning – 2008 – Print  
ISBN: 9780538444682

### Additional Registration Information:

Students in this course have the opportunity to earn high school credit as well as college credit(s) through Articulated Credit. The course is offered at LNHS only. LSHS students provide their own transportation.

## Marketing 1

**BEM-100-00** ► In-Person (North)

**BEM-100-00H** ► Hybrid

**BEM-100-00V** ► Virtual (South)

**BEM-100-00L** ► Online (LinK<sup>12</sup>)

Grades: 9-12	Course Duration: Semester-long
Fulfills Elective Requirement for Graduation	
Prerequisite: None	

### Course Description:

This course is the study of developing skills and competencies needed for careers in marketing, merchandising, and management.

The primary units of study include marketing plans, sales, public speaking, management, promotions, distribution, pricing, market research, branding, packaging, and entrepreneurship.

The students will demonstrate learning through in class activities, projects, presentations and unit tests.

### Course Recommendation:

This course is recommended for students who are interested in DECA, "hands-on" learners who plan on continuing their education in business & marketing at the college level, as well as those who wish to enter the job market upon completion of high school.

### Board Approved Primary Resource:

Marketing Essentials  
Lois Farese - Grady Kimbrell - Carl A. Woloszyk - Glencoe/McGraw-Hill – 2009 – Print  
ISBN: 9780078769047

### Additional Registration Information:

Students in this course have the opportunity to earn high school credit as well as college credit(s) through Articulated Credit. Colleges and universities may or may not accept this course as an Arts credit for admission purposes.

## Marketing 2

**BEM-200-00H** ► Hybrid

**BEM-200-00V** ► Virtual (South)

Grades: 9-12	Course Duration: Semester-long
Fulfills Elective Requirement for Graduation	
Prerequisite: Marketing 1	

### Course Description:

This course is the study of National DECA's Public Relations, Free Enterprise, Civic Consciousness, Creative Marketing, and Learn and Earn Chapter Projects, as well as skills and competencies needed for success in DECA's competitive events program at the district, state, and national levels.

The primary units of study include advanced marketing concepts, merchandising, management and leadership skills as they run and/or help campaign for local, district, and state DECA office positions.

The students will demonstrate learning through participation and completion of the DECA projects.

### Course Recommendation:

This course is recommended for students who are "hands-on" learners in DECA, who plan on continuing their education in business and marketing at the college level, as well as those who wish to enter the job market upon completion of high school.

### Board Approved Primary Resource:

Marketing Essentials  
Lois Farese - Grady Kimbrell - Carl A. Woloszyk  
- Glencoe/McGraw-Hill – 2009 – Print  
ISBN: 9780078769047

### Additional Registration Information:

Students in this course have the opportunity to earn high school credit as well as college credit(s) through Articulated Credit.

## Personal Financial Management

**BEF-110-00** ► In-Person (North)

**BEF-110-00H** ► Hybrid

**BEF-110-00V** ► Virtual

**BEF-110-00L** ► Online (LinK<sup>12</sup>)

Grades: 9-12	Course Duration: Semester-long
Fulfills Math Elective or Elective Requirement for Graduation	
Prerequisite: None	

### Course Description:

This course is the study of the financial world and how to become rational, competent decision makers; informed, effective consumers; wise savers and investors; and responsible citizens.

Primary units of study include banking creation and implementation, budget development and usage, comparison shop for a major purchase, credit (advantages and disadvantages), tax returns, loan and mortgage applications.

The students will demonstrate learning through various hands-on learning opportunities, projects, simulations, daily work, tests, and participation in class.

### Course Recommendation:

This course is recommended for students who desire life-long financial skills.

### Board Approved Primary Resource:

Managing Your Personal Finances  
Joan S. Ryan - South-Western Cengage Learning – 2010 – Print  
ISBN: 97805384449373

### Additional Registration Information:

Students in this course have the opportunity to earn high school credit as well as college credit(s) through Articulated Credit.



# Word Processing/ Keyboarding

**BEZ-140-00** ► In-Person (North)

**BEZ-140-00H** ► Hybrid (South)

**BEZ-140-00V** ► Virtual (South)

Grades: 9-12	Course Duration: Semester-long
Fulfills Elective Requirement for Graduation	
Prerequisite: None	

## Course Description:

This course is the study of efficient keyboarding and the effective use of word processing software (Microsoft Word).

The primary units of study include computer operations; alphabetic, numeric and keypad keyboarding; and document production including outlines, tables, email, personal and business letters, reports, composition and English skill usage.

Students will demonstrate learning through daily work, timings and projects.

## Course Recommendation:

This course is strongly recommended for all students because of the frequent daily use of computers.

## Board Approved Primary Resource:

Century 21 Computer Applications and Keyboarding  
Jack Hoggatt - Jon A Shank - South-Western  
Cengage Learning – 2010- Print  
ISBN: 978058449069

## Additional Registration Information:

Students in this course have the opportunity to earn high school credit as well as college credit(s) through Articulated Credit.

# Retail Merchandising: School Store Operations

**BEB-100-00H** ► Hybrid (South)

Grades: 11-12	Course Duration: Semester-long
Fulfills Elective Requirement for Graduation	
Prerequisite: DECA Experience and/or Instructor Approval	

## Course Description:

This course is the study of planning, marketing, management, and accounting activities for the school store. Students will have the opportunity to work on leadership skills as they operate the school store.

Primary units of study include daily operations of the school store.

Students will demonstrate learning through active participation and individual projects.

## Course Recommendation:

This course is recommended for students interested in retail, marketing, merchandising, and management.

## Board Approved Primary Resource:

Marketing Essentials  
Lois Farese - Grady Kimbrell - Carl A.Woloszyk  
- Glencoe/McGraw-Hill – 2009 – Print  
ISBN: 9780078769047

## Additional Registration Information:

The course is offered at LSHS only. LNHS students provide their own transportation.



## Capstone: Global Leadership Online

**BEB-112-00V** ► Virtual (North)

Grades: 12	Course Duration: Semester-long
Fulfills Elective Requirement for Graduation	
Prerequisite: None	

### Course Description:

This course is the study of employability, career exploration, leadership and entrepreneurship. This capstone course for the Business Pathway, is a culmination of the student's business and marketing education throughout high school.

The primary units of study include developing a business plan, business ownership, global leadership and career readiness.

Students will demonstrate learning through daily work activities evaluated by their supervisor at work and by the teacher/coordinator. Students must complete a minimum of 30 hours in an internship and complete an internship manual. Students will complete a project, choosing an applied learning problem-solving standard like designing a product or service, improving a system, or planning and organizing an event or activity at school or in the community.

### Course Recommendation:

This course is recommended for students who want to obtain work experience in a specific field and apply standards learned in previous Business Pathways courses.

### Board Approved Primary Resource:

None

### Additional Registration Information:

Successful completion of this course satisfies the Senior Job Shadow and Senior Interview component of the Career Portfolio. The course is offered at LNHS only. LSHS students provide their own transportation.

# ENGLISH LANGUAGE ARTS

The mission of the Lakeville Area Schools secondary English Language Arts Department is to develop critical thinkers who effectively communicate with a diverse and changing world. Students will engage in a variety of learning experiences in the following areas: reading, writing, speaking and listening.

Students are required to take eight (8) semester classes in English Language Arts during grades 9-12.

## Requirements include the following:

- 1 year long English 9 course
- 1 year long English 10 course
- 1 semester English 11 (Reading/Writing Non-fiction) course
- 1 semester Speech course
- 1 semester English 12 (Reading/Writing Fiction) course
- 1 semester Media Studies course

## Recommended Junior Year:

- English 11
- Public Speaking or Interpersonal Communication
- AP English Language & Composition\*

## Recommended Senior Year:

- English 12
- Media Studies Elective: Broadcast Media, Business Communication, Creative Writing, Film Analysis/Production, Journalism, and Yearbook Journalism
- AP English Literature & Composition\*

## General Electives

- Advanced Broadcast (or fulfills Arts Credit at LSHS only)
- Advanced Journalism

\*\*Students who successfully complete AP Literature and Composition and AP Language and Composition meet the Rigorous Course Waiver for all required 11th and 12th grade English Language Arts courses.

If a student completes AP Language and Composition only, the student is required to take English 12 and a Speech course.

# English 9

LAE-109-11 / LAE-109-12 ▶ In-Person  
 LAE-109-11L / LAE-109-12L ▶ Online (LinK<sup>12</sup>)

Grades: 9	Course Duration: Year-long
Fulfills 9th Grade English Course Requirement for Graduation	
Prerequisite: None	

## Course Description:

This course is the study of language arts: reading, writing, speaking, listening, viewing, and media literacy.

The primary units of study include: reading, understanding, and responding to a variety of fiction, non-fiction and poetic texts; writing in narrative, analytical, descriptive and expository modes; learning research skills and producing formal research writing; communicating through class discussion and speeches; analyzing, evaluating, and producing different types of print, digital and multimodal media; and utilizing grammar and vocabulary skills.

Students will demonstrate learning in various ways, including writing assignments, speeches and multimedia presentations, tests, quizzes, and discussions.

## Board Approved Primary Resource:

Holt McDougal Literature Grade 9  
 2012 – Print - ISBN: 978-0-547-61839-5

This course uses a variety of novels, texts, and excerpts from various resources. A full list of reading materials can be made available upon request.

## Additional Registration Information:

None

# Honors English 9

LAE-H09-11 / LAE-H09-12 ▶ In-Person

Grades: 9	Course Duration: Year-long
Fulfills 9th Grade English Course Requirement for Graduation	
Prerequisite: None	

## Course Description:

This course is an advanced study of language arts: reading, writing, speaking, listening, viewing, and media literacy.

The primary units of study include: reading, understanding, and responding to a variety of fiction, non-fiction and poetic texts; writing in narrative, analytical, descriptive and expository modes; learning research skills and producing formal research writing; communicating through class discussion and speeches; analyzing, evaluating, and producing different types of print, digital and multimodal media; and utilizing grammar and vocabulary skills.

Students will demonstrate learning in various ways, including writing assignments, speeches and multimedia presentations, tests, quizzes, and discussions.

## Course Recommendation:

As an Honors course, the level of study is more rigorous than English 9, with greater emphasis on critical thinking, in-depth literary analysis, expository writing, and vocabulary expansion. This will prepare students for upper level Honors and Advanced Placement English classes.

## Board Approved Primary Resource:

Holt McDougal Literature Grade 9  
 2012 – Print - ISBN: 978-0-547-61839-5

This course uses a variety of novels, texts, and excerpts from various resources. A full list of reading materials can be made available upon request.

**Additional Registration Information:**

Students currently in English 8 should consult with their current English 8 teacher before registration.

**English 10**

**LAE-110-11 / LAE-110-12** ► In-Person  
**LAE-110-11E / LAE-110-12E** ► Early Bird (North)  
**LAE-110-11L / LAE-110-12L** ► Online (LinK<sup>12</sup>)

Grades: 10	Course Duration: Year-long
Fulfills 10th Grade English Course Requirement for Graduation	
Prerequisite: None	

**Course Description:**

This course is the study of language arts - reading, writing, speaking, listening, viewing, and media literacy through an in-depth study of American literature. Teachers will use the Minnesota Department of Education's Common Core standards as well as the ACT college admission exam standards to guide and assess student learning.

The primary units of study include: reading, understanding, and responding to a variety of fiction, non-fiction and poetic texts; writing in expository and argumentative modes; practicing research skills and producing formal research writing; communicating through class discussion and speeches; analyzing, evaluating, and producing different types of print, digital and multimodal media; and utilizing grammar and vocabulary skills.

Students will demonstrate learning in various ways, including writing assignments, speeches and multimedia presentations, tests, quizzes, and discussions.

**Board Approved Primary Resource:**

Holt McDougal Literature Grade 10  
 2012 - Print - ISBN: 978-0-547-61841-8

This course uses a variety of novels, texts, and excerpts from various resources. A full list of reading materials can be made available upon request.

**Additional Registration Information:**

This course includes preparation for the MCA Reading test.

**Honors English 10**

**LAE-110-11 / LAE-H10-12** ► In-Person

Grades: 10	Course Duration: Year-long
Fulfills 10th Grade English Course Requirement for Graduation	
Prerequisite: None	

**Course Description:**

This course is an in-depth, chronological study of American literature and includes the advanced study of language arts: reading, writing, speaking, listening, viewing, and media literacy. Teachers will use the Minnesota Department of Education's Common Core standards as well as the ACT college admission exam standards to guide and assess student learning.

The primary units of study include: reading, understanding, and responding to a variety of fiction, non-fiction and poetic texts; writing in expository and argumentative modes; practicing research skills and producing formal research writing; communicating through class discussion and speeches; analyzing, evaluating, and producing different types of print, digital and multimodal media; and utilizing grammar and vocabulary skills.

Students will demonstrate learning in various ways, including writing assignments, speeches and multimedia presentations, tests and quizzes, and discussions.

### Course Recommendation:

As an honors course, the level of study is more rigorous than English 10, with greater emphasis on critical thinking, in-depth literary analysis, expository writing, and vocabulary expansion.

### Board Approved Primary Resource:

Holt McDougal Literature Grade 10  
2012 - Print - ISBN: 978-0-547-61841-8

This course uses a variety of novels, texts, and excerpts from various resources. A full list of reading materials can be made available upon request.

### Additional Registration Information:

This course includes preparation for the MCA reading test and AP English classes in the junior and senior years.

## English 11

**LAE-111-00** ▶ In-Person

**LAE-111-00H** ▶ Hybrid

**LEA-111-00L** ▶ Online (LinK<sup>12</sup>)

Grades: 11	Course Duration: Semester-long
Fulfills 11th Grade English Reading/Writing Non-Fiction Course Requirement for Graduation	
Prerequisite: None	

### Course Description:

This course is the study of nonfiction works and academic writing.

The primary units of study include writing researched-based argumentative and/or narrative essays, analyzing a variety of informational texts, vocabulary development, and grammar/mechanics,

Students will demonstrate their learning through various writing assignments, presentations, quizzes, and discussions.

### Course Recommendation:

This course is required for those students not taking AP Language and Composition.

### Board Approved Primary Resource:

This course uses a variety of novels, texts, and excerpts from various resources. A full list of reading materials can be made available upon request

### Additional Registration Information:

None

## Advanced Placement (AP) English Language and Composition

**LAE-A11-11 / LAE-A11-12** ► In-Person  
**LAE-A11-11H / LAE-A11-12H** ► Hybrid (South)  
**LAE-A11-11L / LAE-A11-12L** ► Online (LinK<sup>12</sup>)

Grades: 11	Course Duration: Year-long
Fulfills 11th Grade English Reading/Writing Non-Fiction Course Requirement for Graduation	
Prerequisite: None	

### Course Description:

This course examines the rhetorical situation, a series of factors that influence the choices that skilled writers make to effectively convey complex ideas.

Students will analyze the writing of skillful authors and speakers. Students also craft their own sophisticated written works for a variety of purposes and intended audiences. Essays range from college-level research papers to creative expressions of personal values. In addition, students study advance vocabulary, grammar, and syntax so that they can enhance the messaging and artistry of their own writing.

Learning will be demonstrated through written assignments, discussions, presentations, quizzes, and tests.

### Course Recommendation:

Strong performance in English 10 or Honors 10 is recommended.

### Board Approved Primary Resource:

The Norton Field Guide to Writing with Readings  
2013 - Print - ISBN 978-0-393-91957-8

This course uses a variety of novels, texts, and excerpts from various resources. A full list of reading materials can be made available upon request.

### Additional Registration Information:

Students who successfully complete AP Language and Composition and AP Literature and Composition meet the Rigorous Course Waiver for all required 11th and 12th grade courses. Summer homework may be required.

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# Public Speaking

- LAS-100-00 ▶ In-Person
- LAS-100-00H ▶ Hybrid (South)
- LAS-100-00L ▶ Online (LinK<sup>12</sup>)

Grades: 10-12	Course Duration: Semester-long
Fulfills Speech Requirement for Graduation	
Prerequisite: None	

## Course Description:

This course is a semester course in speech and communication skills, emphasizing formal public speaking.

The primary units of study include the communication process, audience analysis, listening skills, discussion skills, and public speaking.

Students will demonstrate learning through speeches, written assignments, presentations, tests and quizzes, and discussion.

## Course Recommendation:

This class is recommended for any student who wants to gain confidence as a public speaker or hopes to improve oral presentation and general communication skills.

## Board Approved Primary Resource:

This course uses a variety of novels, texts, and excerpts from various resources. A full list of reading materials can be made available upon request.

## Additional Registration Information:

It is recommended students take the speech requirement in their junior year.

# Interpersonal Communication

- LAC-100-00 ▶ In-Person
- LAC-100-00H ▶ Hybrid (South)

Grades: 10-12	Course Duration: Semester-long
Fulfills Speech Requirement for Graduation	
Prerequisite: None	

## Course Description:

This course is a semester course in speech and communication skills, emphasizing effective interaction with others.

The primary units of study include the communication process, audience analysis, listening skills, discussion skills, and public speaking.

Students will demonstrate learning through speeches, written assignments, presentations, tests and quizzes, and discussion.

## Course Recommendation:

This class is recommended for students who want to improve their communication skills, including speaking in public, working in groups, and improving relationships.

## Board Approved Primary Resource:

This course uses a variety of novels, texts, and excerpts from various resources. A full list of reading materials can be made available upon request.

## Additional Registration Information:

It is recommended students take the speech requirement in their junior year.



## English 12

**LAE-112-00** ► In-Person  
**LAE-112-00H** ► Hybrid  
**LAE-112-00V** ► Virtual (North)  
**LAE-112-00L** ► Online (LinK<sup>12</sup>)

Grades: 12	Course Duration: Semester-long
Fulfills 12th Grade English Reading/Writing Fiction Course Requirement for Graduation	
Prerequisite: None	

### Course Description:

This course is the study of literature, literary analysis, and analytical writing.

The primary units of study include: reading, understanding, and responding to a variety of fiction; writing in persuasive, expository, and narrative modes; communicating through class discussion and presentations; and utilizing grammar and vocabulary skills.

Students will demonstrate learning through writing assignments, literary analysis, various projects and presentations, tests and quizzes, and discussions.

### Course Recommendation:

This course is required for those students not taking AP Literature and Composition.

### Board Approved Primary Resource:

This course uses a variety of novels, texts, and excerpts from various resources. A full list of reading materials can be made available upon request.

### Additional Registration Information:

None

## Advanced Placement (AP) English Literature & Composition

**LAL-A12-11 / LAL-A12-12** ► In-Person  
**LAL-A12-11H / LAL-A12-12H** ► Hybrid  
**LAL-A12-11L / LAL-A12-12L** ► Online (LinK<sup>12</sup>)

Grades: 12	Course Duration: Year-long
Fulfills the Reading/Writing Fiction and Media Studies Requirement for Graduation	
Prerequisite: None	

### Course Description:

This course is the study of literature, literary analysis and analytical writing comparable to a college/university course.

The primary units of study include several representative works of literary merit from various genres and periods. In addition, the course will include study in language structure and the writer's craft in fiction and poetry.

The students will demonstrate learning through a variety of analytical writing assignments, discussions, quizzes, tests and presentations.

### Course Recommendation:

Prior completion of Advanced Placement Language & Composition recommended but not required, or strong performance in English 11 recommended.

### Board Approved Primary Resource:

This course uses a variety of novels, texts, and excerpts from various resources. A full list of reading materials can be made available upon request.

### Additional Registration Information:

Students who successfully complete AP Literature and Composition and AP Language and Composition meet the Rigorous Course Waiver for all required 11th and 12th grade English Language Arts courses. Summer homework may be required.



## Broadcast Media

**LAJ-100-00** ► In-Person

Grades: 10-12	Course Duration: Semester-long
Lakeville North: Fulfills Media Studies or Elective Requirement for Graduation	
Lakeville South: Fulfills the Arts and Elective Requirement for Graduation	
Prerequisite: None	

### Course Description:

This course is the study and creation of print, digital, and multimodal media with a focus on broadcast journalism and narrative.

The primary units of study include analysis and evaluation of written, oral, and visual communication; research skills; effective interviewing skills; writing for broadcast news and narrative; camera composition and video editing; media law and ethics.

The students will demonstrate learning through a variety of assignments, quizzes, tests, projects, and video productions.

### Course Recommendation:

This course is recommended for students who have an interest in video production, news, sports and creative broadcasting, and technology.

### Board Approved Primary Resource:

This course uses a variety of novels, texts, and excerpts from various resources. A full list of reading materials can be made available upon request.

### Additional Registration Information:

This course does not meet the requirements for NCAA approved core courses. See your dean for more information. Colleges and universities may or may not accept this course as an Arts credit.

## Advanced Broadcast

**LAJ-200-00** ► In-Person

Grades: 10-12	Course Duration: Semester-long
Lakeville North: Fulfills Elective Requirement for Graduation	
Lakeville South: Fulfills the Arts and Elective Requirement for Graduation	
Prerequisite: Broadcast Media	

### Course Description:

This course is the further study and creation of digital media with a focus on broadcast production. Students will continue to analyze and evaluate written, oral, and visual communication; demonstrate research skills; use effective interviewing skills; write scripts for broadcast news as well as creative narrative projects; utilize camera composition and edit video; apply media law and ethics.

The students will demonstrate learning by developing, writing, filming, and editing digital projects, which they publish.

### Course Recommendation:

This course is recommended for students who have an interest in video production and film as well as news, sports and creative broadcasting. Students also might have an interest in sharing their digital projects with a larger audience.

### Board Approved Primary Resource:

This course uses a variety of novels, texts, and excerpts from various resources. A full list of reading materials can be made available upon request.

### Additional Registration Information:

Students may register for this course more than once. This course does not meet the requirements for NCAA approved core courses. See your dean for more information. Colleges and universities may or may not accept this course as an Arts credit.

## Creative Writing

**LAW-100-00** ► In-Person  
**LAW-100-00H** ► Hybrid  
**LAW-100-00L** ► Online (LinK<sup>12</sup>)

Grades: 10-12	Course Duration: Semester-long
Fulfills the English Language Arts Media Studies Elective or Elective Requirement for Graduation	
Prerequisite: None	

### Course Description:

This course is the study of creative writing and its processes.

The primary units of study include writing creatively for different genres, audiences, and purposes, including digital and print publication, as well as media law and ethics.

The students will demonstrate learning through tests and quizzes, compositions, the execution of projects, the creation of a digital portfolio, and a publication.

### Board Approved Primary Resource:

This course uses a variety of novels, texts, and excerpts from various resources. A full list of reading materials can be made available upon request.

### Additional Registration Information:

This course meets the requirements for NCAA approved core courses.

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## Film Analysis & Production

**LAM-100-00** ► In-Person  
**LAM-100-00H** ► Hybrid (North)

Grades: 10-12	Course Duration: Semester-long
Fulfills the English Language Arts Media Studies Elective or Elective Requirement for Graduation	
Prerequisite: None	

### Course Description:

This course is the study and creation of print, digital, and multimodal media with a focus on cinema arts.

The primary units of study include the development of film techniques; critical analysis of films from a range of historical periods and genres; camera usage; editing techniques; production of a film; media law and ethics.

The students will demonstrate learning through tests and quizzes, essays, discussions, the execution of projects and the creation of a film.

### Course Recommendation:

This course is recommended for students who enjoy analysis and/or production of film.

### Board Approved Primary Resource:

This course uses a variety of novels, texts, and excerpts from various resources. A full list of reading materials can be made available upon request

### Additional Registration Information:

This course does not meet the requirements for NCAA approved core courses. See your dean for more information. Colleges and universities may or may not accept this course as an Arts credit.

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## Journalism

**LAJ-120-00** ► In-Person

**LAJ-110-00H** ► Hybrid (South)

**LAJ-120-00L** ► Online (Link<sup>12</sup>)

Grades: 9-12	Course Duration: Semester-long
Fulfills the English Language Arts Media Studies Elective or Elective Requirement for Graduation	
Prerequisite: None	

### Course Description:

This course is the study and creation of print, digital, and multimodal media with a focus on scholastic journalism.

The primary units of study include interviewing, story writing and editing, photography and layout principles, design software, production, and media law and ethics.

The students will demonstrate learning through tests, quizzes, projects, various types of written stories, and production of a newspaper.

### Course Recommendation:

This course is recommended for students who are interested in journalism, page layout, and design of a publication, both digitally and in print.

### Board Approved Primary Resource:

This course uses a variety of novels, texts, and excerpts from various resources. A full list of reading materials can be made available upon request.

### Additional Registration Information:

This course does not meet the requirements for NCAA approved core courses. See your dean for more information.

## Advanced Journalism

**LAJ-220-00** ► In-Person (North)

**LAJ-220-00H** ► Hybrid

Grades: 9-12	Course Duration: Semester-long
Fulfills the English Language Arts Media Studies Elective or Elective Requirement for Graduation	
Prerequisite: Journalism or Teacher Approval	

### Course Description:

This course is the further study & creation of print, digital, and multimodal media with a focus on the production of the student newspaper.

The primary units of study include reporting on the various activities and opinions of the student body and developing the principles of teamwork through cooperative learning and problem-solving situations encountered during production.

Students will demonstrate learning through meeting deadlines, the editing and revision process and production of the newspaper.

### Course Recommendation:

This course is recommended for students who are interested in journalism, both print and digital, working in a team environment, a production-based class, and want to be a member of the newspaper staff.

### Board Approved Primary Resource:

The Radical Write  
Bobby Hawthorne - Jostens – 2003 – Print  
ISBN: 978096557003

### Additional Registration Information:

Students may register for this course more than once. This course does not meet the requirements for NCAA approved core courses. See your dean for more information. The hybrid course is offered at LSHS only. LNHS students provide their own transportation.

## Yearbook Journalism

**LAJ-130-00** ► In-Person (North)

**LAJ-130-00H** ► Hybrid (South)

Grades: 10-12	Course Duration: Semester-long
Fulfills the English Language Arts Media Studies Elective or Elective Requirement for Graduation	
Prerequisite: Instructor Approval	

### Course Description:

This course is the study and creation of print, digital, and multimodal media with a focus on producing the school's yearbook.

The primary units of study include interviewing, story writing and editing, photography and layout principles, design software, and production.

The primary units of study include researching, interviewing, and writing for journalistic publications; photojournalism; digital photo editing; principles of information design and layouts; and desktop publishing; editing and preparing publications for production; marketing, advertising, and distribution of media products; media law and ethics.

Students will demonstrate learning through written assignments, photography and production assignments, and by completing the school yearbook.

### Course Recommendation:

This course is recommended for students who love writing, photography, or graphic design and who are interested in contributing to an important piece of the school's history.

### Board Approved Primary Resource:

This course uses a variety of novels, texts, and excerpts from various resources. A full list of reading materials can be made available upon request.

### Additional Registration Information:

Students may register for this course more than once. This course does not meet the requirements for NCAA approved core courses. See your dean for more information.



# FAMILY & CONSUMER SCIENCE

Family and Consumer Science education empowers individuals and families throughout their life to manage the challenges of living and working in a diverse, global society. The challenges individuals face throughout their lives include balancing personal, home, family and work lives; acquiring marketable skills to be successful in life management, employment, and career development; promoting optimal nutrition and wellness; and managing resources to meet the material needs of individuals and families.

Family and Consumer Science education provides avenues for hands-on learning and skill development in the areas of child development, family studies, foods and nutrition, consumerism, housing, textiles, and education. Family and Consumer Science courses are ideal for students who are seeking professional careers that help to improve the lives of individuals, families, and communities.

## Child Development 1

**FCC-100-00** ► In-Person

Grades: 9-12	Course Duration: Semester-long
Fulfills Elective Requirement for Graduation	
Prerequisite: None	

### Course Description:

This course is the study of the development of the child in the areas of physical, emotional, intellectual, and social growth.

The primary units of study include child development theories, pregnancy with the use of the Empathy Belly, growth and development from conception to adolescence, planning age appropriate activities, developing curriculum for Playschool, and exploring child related careers.

The students will demonstrate learning through daily work, quizzes, exams, and Playschool curriculum planning and teaching.

### Course Recommendation:

This course is recommended for students who are interested in career fields related to working with children.

### Board Approved Primary Resource:

Children: the Early Years  
Celia Anita Decker - Goodheart-Willcox Co. – 2004 – Print  
ISBN: 9781566379458

Working with Young Children  
Judy Herr - Goodheart-Wilcox – 2004 – Print  
ISBN: 9871590701287

The Developing child: Building Brighter Futures  
Holly E. Brisbane - McGraw-Hill/Glencoe – 2010 – Print  
ISBN: 9780078883606

### Additional Registration Information:

Students in this course have the opportunity to earn high school credit as well as college credit(s) through Articulated Credit.

## Child Development 2

**FCC-200-00** ► In-Person

Grades: 9-12	Course Duration: Semester-long
Fulfills Elective Requirement for Graduation	
Prerequisite: Child Development 1	

### Course Description:

This course is the advanced study of the developmental areas of physical, emotional, intellectual, and social growth.

The primary units of study include developmental theories, history of education, safety and care with the use of Real Care Babies, providing a caring and safe environment for learning, developing curriculum for Playschool, and exploring child related career choices.

The students will demonstrate learning through daily work, quizzes, exams, elementary tutoring, and playschool curriculum planning and teaching.

### Course Recommendation:

This course is recommended for students who are interested in the education career pathway.

### Board Approved Primary Resource:

The Developing child: Building Brighter Futures  
Holly E. Brisbane - McGraw-Hill/Glencoe – 2010 – Print  
ISBN: 9780078883606

### Additional Registration Information:

Students in this course have the opportunity to earn high school credit as well as college credit(s) through Articulated Credit.

## Fashion Design

**FCD-100-00** ► In-Person

Grades: 9-12	Course Duration: Semester-long
Fulfills Elective Requirement for Graduation	
Prerequisite: None	

### Course Description:

This course is the study of history of fashion through current trends including sewing techniques.

The primary units of study include: history of fashion, basic elements of arts, design sketches, operating sewing equipment, reading a pattern and exploring fashion related career choices.

The students will demonstrate learning through daily work, quizzes, exams, sewing projects and samples, individually selected projects, and a final project.

### Course Recommendation:

This course is recommended for students who want to learn more about clothing trends, the fashion industry, and garment and accessory production.

### Board Approved Primary Resource:

Fashion!  
Mary Gorgen Wolfe - Goodheart-Willcox Co. –  
2002 – Print  
ISBN: 9781566378314

### Additional Registration Information:

A fee will be assessed for any projects taken home. Students may purchase higher quality materials than offered as part of the course.

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## Introduction to Foods

**FCF-100-00** ► In-Person

Grades: 9-12	Course Duration: Semester-long
Fulfills Elective Requirement for Graduation	
Prerequisite: None	

### Course Description:

This course is the study of introductory fundamental concepts, skills and techniques in basic cooking.

The primary units of studies include recipe conversion, measurements, terminology, classical knife cuts, safe food/ equipment handling, breakfast, sandwiches, and American Cuisine.

The students will demonstrate learning through daily activities, cooking labs, projects, presentations, quizzes, and exams.

### Course Recommendation:

This course is recommended for students who want to develop and practice basic culinary skills and food preparation techniques or who are interested in pursuing a culinary career.

### Board Approved Primary Resource:

Foundations of Restaurant Management &  
Culinary Arts: Level 1  
Published by Pearson, Copyright 2011  
ISBN: 9780138019389

Foundations of Restaurant Management &  
Culinary Arts: Level 2  
Published by Pearson, Copyright 2011  
ISBN: 9780131380226

### Additional Registration Information:

None

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## Baking & Pastries

**FCF-120-00** ► In-Person

Grades: 9-12	Course Duration: Semester-long
Fulfills Elective Requirement for Graduation	
Prerequisite: None	

### Course Description:

This course is the study of the fundamentals of baking and pastries.

The primary units of study include: baking terminology, tools and equipment, formula conversion, food science, and baking applications in a variety of pastries.

The students will demonstrate learning through daily activities, cooking labs, projects, presentations, quizzes, and exams.

### Course Recommendation:

This course is recommended for students who want to develop and practice basic baking and pastry techniques or who are interested in pursuing a baking specific culinary career.

### Board Approved Primary Resource:

Foundations of Restaurant Management & Culinary Arts: Level 1  
Published by Pearson, Copyright 2011  
ISBN: 9780138019389

Foundations of Restaurant Management & Culinary Arts: Level 2  
Published by Pearson, Copyright 2011  
ISBN: 9780131380226

### Additional Registration Information:

None

## Advanced Foods

**FCF-200-00** ► In-Person

**FCF-200-00H** ► Hybrid

Grades: 9-12	Course Duration: Semester-long
Fulfills Elective Requirement for Graduation	
Prerequisite: Intro to Foods or Baking & Pastries	

### Course Description:

This course is the study of advanced culinary skills building on prior knowledge obtained in Foods 1 and 2.

The primary units of study include food safety (ServeSafe), global foods, sustainability and cooking methods.

The students will demonstrate learning through daily activities, cooking labs, projects, presentations, quizzes, and exams.

### Course Recommendation:

This course is recommended for all students regardless of their career cluster or pathway, in order to build basic culinary arts knowledge and skills. It is especially appropriate for students with interest in career clusters related to culinary arts and food and nutrition.

### Board Approved Primary Resource:

Foundations of Restaurant Management & Culinary Arts: Level 1  
Published by Pearson, Copyright 2011  
ISBN: 9780138019389

Foundations of Restaurant Management & Culinary Arts: Level 2  
Published by Pearson, Copyright 2011  
ISBN: 9780131380226

### Additional Registration Information:

If students successfully complete Introduction to Foods, Baking and Pastries and Advance Foods, they will have the opportunity to take the ServSafe exam. Students in this course have the opportunity to earn high school credit as well as college credit(s) through Articulated Credit.

## Independent Living

**FCZ-100-00H** ► Hybrid

Grades: 12	Course Duration: Semester-long
Fulfills Elective Requirement for Graduation	
Prerequisite: None	

### Course Description:

This course is the study of the skills necessary for successfully navigating life after high school.

The primary units of study include character building, goal setting, decision-making, college and career exploration, personal financial management and consumerism.

The students will demonstrate learning through daily activities, unit projects, unit exams, and a final written exam.

### Course Recommendation:

This course is recommended for students who want to develop and practice the skills necessary for living, working, and succeeding on their own after graduation.

### Board Approved Primary Resource:

Applying Life Skills  
Joan Kelly-Plate - Eddy Eubanks - Glencoe  
McGraw Hill – 2010 – Print  
ISBN: 9780078883583

Confident Consumer  
Sally R Campbell - Goodheart-Wilcox – 2004 –  
Print  
ISBN: 9781590701461

Applying Life Skills  
Joan Kelly-Plate - Eddy Eubanks - Glencoe  
McGraw Hill – 2010 – Print  
ISBN: 9780078883583

### Additional Registration Information:

None



# MATHEMATICS

The Mathematics Department offers courses designed as foundations for college, vocational, and everyday use. Emphasis is on development of logical thinking, mathematical skills, and applications. To fulfill graduation requirements, all students will be required to pass six semesters of Mathematics through Algebra 2 in grades 9-12.

# Intermediate Algebra

MAA-100-11 / MAA-100-12 ▶ In-Person  
MAA-100-11L / MAA-100-12L ▶ Online (Link<sup>12</sup>)

Grades: 9-12	Course Duration: Year-long
Fulfills Math Requirement for Graduation	
Prerequisite: Algebra 1 (8th Grade)	

## Course Description:

This course is the study of linear and nonlinear functions, probability, and statistics.

The primary units of study include solving and graphing linear equations and systems of linear equations, quadratics, exponents and exponential functions, polynomials and factoring, radicals, and rational functions.

Students will demonstrate learning through unit assessments and other summative assessments.

## Board Approved Primary Resource:

McDougal Littell Algebra 1  
Ron Larson - McDougal Littell – 2007 – Print  
ISBN: 9780618594023

## Additional Registration Information:

Operating a calculator is an integral part of this course. The recommended calculator is a TI-30XII or higher. A limited number of calculators will available for students to check out for the entire year.

# Geometry

MAG-100-11 / MAG-100-12 ▶ In-Person  
MAG-100-11L / MAG-100-12L ▶ Online (Link<sup>12</sup>)

Grades: 9-12	Course Duration: Year-long
Fulfills Math Requirement for Graduation	
Prerequisite: Algebra 1 (8th Grade) and Intermediate Algebra	

## Course Description:

This course is the study of the analysis of plane, solid, and coordinate geometry as they relate to both abstract mathematical concepts as well as real-world problem situations.

The primary units of study include congruence and similarity, properties of lines, triangles, quadrilaterals, circles, length, perimeter, area, circumference, surface area, and volume.

Students will demonstrate learning through unit assessments and other summative assessments.

## Board Approved Primary Resource:

Geometry  
Ron Larson - McDougal Littell – 2007 – Print  
ISBN: 9780618595402

## Additional Registration Information:

Operating a calculator is an integral part of this course. The recommended calculator is a TI-30XII or higher. A limited number of calculators will available for students to check out for the entire year.

# Honors Geometry

**MAG-H00-11 / MAG-H00-12** ▶ In-Person  
**MAG-H00-11L / MAG-H00-12L** ▶ Online (LinK<sup>12</sup>)

Grades: 9-12	Course Duration: Year-long
Fulfills Math Requirement for Graduation	
Prerequisite: Honors Algebra 1 (8th Grade) or Intermediate Algebra & Instructor Recommendation	

## Course Description:

This course is the study of the analysis of plane, solid, and coordinate geometry as they relate to both abstract mathematical concepts as well as real-world problem situations.

The primary units of study include congruence and similarity, properties of lines, triangles, quadrilaterals, circles, length, perimeter, area, circumference, surface area, and volume.

Students will demonstrate learning through unit assessments and other summative assessments.

## Board Approved Primary Resource:

Geometry  
Ron Larson - McDougal Littell – 2007 – Print  
ISBN: 9780618595402

## Additional Registration Information:

Operating a calculator is an integral part of this course. The recommended calculator is a TI-30XI or higher. A limited number of calculators will available for students to check out for the entire year.

# Algebra 2

**MAA-220-11 / MAA-220-12** ▶ In-Person  
**MAA-220-11L / MAA-220-12L** ▶ Online (LinK<sup>12</sup>)

Grades: 9-12	Course Duration: Year-long
Fulfills Math Requirement for Graduation	
Prerequisite: Geometry	

## Course Description:

This course is the study of families of functions including linear and nonlinear functions, and data analysis.

The primary units of study include linear functions, inequalities, systems, quadratic functions, cubic functions, rational functions, radical functions, logarithmic functions, trigonometric functions, polynomial functions, sequences, series, measures of central tendency and dispersion, probability, and statistics.

Students will demonstrate learning through unit assessments and other summative assessments.

## Board Approved Primary Resource:

Algebra 2  
Ron Larson - McDougal Littell – 2007 – Print  
ISBN: 9780618595419

## Additional Registration Information:

Operating a calculator is an integral part of this course. The recommended calculator is a TI-83+ or TI-84. A limited number of calculators will available for students to check out for the entire year.

# Honors Algebra 2

MAA-H20-11 / MAA-H20-12 ► In-Person  
MAA-H20-11L / MAA-H20-12L ► Online (Link<sup>12</sup>)

Grades: 9-12	Course Duration: Year-long
Fulfills Math Requirement for Graduation	
Prerequisite: Geometry and Honors Algebra 1 (8th Grade) or Instructor Recommendation	

## Course Description:

This course is the study of families of functions including linear and nonlinear functions, and data analysis.

The primary units of study include linear functions, inequalities, systems, quadratic functions, cubic functions, rational functions, radical functions, logarithmic functions, trigonometric functions, polynomial functions, sequences, series, measures of central tendency and dispersion, probability and statistics.

Students will demonstrate learning through unit assessments and other summative assessments.

## Board Approved Primary Resource:

Algebra 2  
Ron Larson - McDougal Littell – 2007 – Print  
ISBN: 9780618595419

## Additional Registration Information:

Operating a calculator is an integral part of this course. The recommended calculator is a TI-83+ or TI-84. A limited number of calculators will be available for students to check out for the entire year.

# College Algebra & Trigonometry

MAA-300-11 / MAA-300-12 ► In-Person

Grades: 11-12	Course Duration: Year-long
Fulfills Math Requirement or Elective Requirement for Graduation	
Prerequisite: Algebra 2	

## Course Description:

This course is designed for students who have completed Algebra 2 but require another year of mathematics to prepare for pre-calculus or college level math courses. This class will contain an overview of the fundamental concepts in algebra and trigonometry as well as some statistics.

The primary units of study include: analyzing linear, quadratic, polynomial, logarithmic, rational, piecewise, absolute value, exponential, radical and trigonometric functions; transformations and inverses of functions; solving systems of equations; applying counting principles to calculate probabilities and interpret outcomes; analyze arithmetic and geometric sequences and series.

Students will demonstrate learning through unit assessments and other summative assessments.

## Course Recommendation:

This course is recommended for students who are interested in continuing beyond Algebra 2 to prepare them for college. This course will help students when taking math placement tests for post-secondary and may eliminate the need for remedial courses in college.

## Board Approved Primary Resource:

Algebra and Trigonometry for College Readiness  
Lial and Hornsby- Pearson Education 2011-  
Addison Wesley Print and online  
ISBN: 9780131369030

## Additional Registration Information:

Operating a calculator is an integral part of this course. The recommended calculator is a TI-30XI or higher. A limited number of calculators will be available for students to check out for the entire year.

## Pre-Calculus

**MAC-100-11 / MAC-100-12** ► In-Person  
**MAC-100-11L / MAC-100-12L** ► Online (Link<sup>12</sup>)

Grades: 10-12	Course Duration: Year-long
Fulfills Math Requirement or Elective Requirement for Graduation	
Prerequisite: Algebra 2	

## Course Description:

This course is the study of functions, series, limits and other concepts as an introduction to calculus.

The primary units of study include trigonometric, exponential, logarithmic, quadratic, rational and linear functions, series, sequences, limits, vectors and an introduction to differential and integral calculus.

Students will demonstrate learning through unit assessments and other summative assessments.

## Course Recommendation:

This course is recommended for students who are interested in continuing their study of mathematics, those who may be interested in taking calculus, and as preparation for college level mathematics courses.

## Board Approved Primary Resource:

Pre-calculus with Limits: A Graphing Approach  
Ron Larson - Robert P. Hostetler - Bruce H. Edwards - David C. Falvo - Houghton Mifflin – 2005 – Print  
ISBN: 9780618394784

## Additional Registration Information:

Operating a calculator is an integral part of this course. The recommended calculator is a TI-83+ or TI-84. A limited number of calculators will be available for students to check out for the entire year.



## College Now Pre-Calculus

MAC-112-11 / MAC-112-12 ► In-Person (South)

Grades: 12	Course Duration: Year-long
Fulfills Elective Requirement for Graduation	
Prerequisite: Algebra 2 & 3.0 Cumulative GPA	

### Course Description:

This course is the study of functions, series, limits and other concepts as an introduction to calculus.

The primary units of study include trigonometric, exponential, logarithmic, quadratic, rational and linear functions, series, sequences, limits, vectors and an introduction to differential and integral calculus.

The students will demonstrate learning through formative and summative exams, including unit tests and semester final exams.

### Course Recommendations:

This course is recommended for students who are interested in continuing their study of mathematics, those who may be interested in taking calculus, and as preparation for college level mathematics courses. Students who earn a B- or better in Algebra 2 are generally successful.

### Board Approved Primary Resource:

Pre-calculus with Limits: A Graphing Approach  
Ron Larson - Robert P. Hostetler - Bruce H. Edwards - David C. Falvo - Houghton Mifflin – 2005 – Print  
ISBN: 9780618394784

### Additional Registration Information:

Operating a calculator is an integral part of this course. The recommended calculator is a TI-83+ or TI-84. A limited number of calculators will be available for students to check out for the entire year.

## Honors Pre-Calculus

MAC-H00-11 / MAC-H00-12 ► In-Person

Grades: 9-12	Course Duration: Year-long
Fulfills Math Requirement or Elective Requirement for Graduation	
Prerequisite: Honors Algebra 2 or Algebra 2 & Instructor Recommendation	

### Course Description:

This course is the study of functions, series, limits and other concepts as an introduction to calculus.

The primary units of study include trigonometric, exponential, logarithmic, quadratic, rational and linear functions, series, sequences, limits, vectors and an introduction to differential and integral calculus.

Students will demonstrate learning through unit assessments and other summative assessments.

### Course Recommendation:

This course is recommended for accelerated students (in grades 9-11) who are interested in continuing their study of mathematics, those who may be interested in taking calculus, and as preparation for college level mathematics courses. In this honors course, topics are covered at an accelerated pace and in greater depth than Pre-calculus.

### Board Approved Primary Resource:

Pre-calculus with Limits: A Graphing Approach  
Ron Larson - Robert P. Hostetler - Bruce H. Edwards - David C. Falvo - Houghton Mifflin – 2005 – Print  
ISBN: 9780618394784

### Additional Registration Information:

Operating a calculator is an integral part of this course. The recommended calculator is a TI-83+ or TI-84. A limited number of calculators will be available for students to check out for the entire year.

## Advanced Placement (AP) Calculus AB

**MAC-A00-11 / MAC-A00-12** ► In-Person  
**MAC-A00-11L / MAC-A00-12L** ► Online (LinK<sup>12</sup>)

Grades: 9-12	Course Duration: Year-long
Fulfills Math Requirement or Elective Requirement for Graduation	
Prerequisite: Pre-Calculus	

### Course Description:

This course is the study of how things change and accumulate while providing a framework which scientists, engineers and economists use for modeling dynamic systems in order to make predictions and calculate summations within those systems.

The primary units of study include limits and their properties, differentiation, integration, The Fundamental Theorem of Calculus, differential equations, and slope fields.

The students will demonstrate learning through quizzes, tests and voluntary participation in the AP Calculus AB test in May.

### Board Approved Primary Resource:

Calculus of a Single Variable  
Ron Larson - Robert P. Hostetler - Bruce H. Edwards - Houghton Mifflin Co. – 2006 – Print  
ISBN: 9780618503049

### Additional Registration Information:

Operating a graphing calculator is an integral part of this course. Students benefit from having a calculator equivalent to a TI-83+ or TI-84. A limited number of calculators will be available for students to check out for the entire year.

## Advanced Placement (AP) Statistics

**MAS-A00-11 / MAS-A00-12** ► In-Person  
**MAS-A00-11L / MAS-A00-12L** ► Online (LinK<sup>12</sup>)

Grades: 9-12	Course Duration: Year-long
Fulfills Math Requirement or Elective Requirement for Graduation	
Prerequisite: Algebra 2	

### Course Description:

This course is the study of collecting, analyzing, and drawing conclusions from data.

The primary units of study include exploring data by observing patterns and departures from patterns, planning a study by deciding what and how to measure, anticipating patterns by producing models using probability and simulations, and using statistical inference by confirming models.

The students will demonstrate learning through quizzes, labs, tests and the AP Statistics test in May.

### Board Approved Primary Resource:

The Practice of Statistics, 3rd edition  
Daniel S. Yates - David S. Moore - Daren S. Starnes - W.H. Freeman – 2008 – Print  
ISBN: 9780716773092

### Additional Registration Information:

Operating a graphing calculator is an integral part of this course. Students benefit from having a calculator equivalent to a TI-83+ or TI-84. A limited number of calculators will be available for students to check out for the entire year. Calculators are allowed on the entire AP exam. Summer homework may be required.

## Advanced Placement (AP) Calculus BC & Advanced Topics

**MAC-A20-11 / MAC-A20-12** ► In-Person  
**MAC-A20-11L / MAC-A20-12L** ► Online (Link<sup>12</sup>)

Grades: 9-12	Course Duration: Year-long
Fulfills Math Requirement or Elective Requirement for Graduation	
Prerequisite: Advanced Placement Calculus AB	

### Course Description:

This course is the continued study of calculus concepts including those found on the AP Calculus BC exam and an introduction to multivariable calculus.

The primary units of study include advanced applications and techniques of integration, convergence and divergence of infinite sequences and series, extending properties of calculus such as differentiation and integration to a broader variety of functions and relations including conic sections, parametric equations, vector-valued functions, the polar coordinate system, and functions with multiple variables.

The students will demonstrate learning through quizzes, tests and voluntary participation in the AP Calculus BC test in May.

### Board Approved Primary Resource:

Calculus of a Single Variable  
Ron Larson - Robert P. Hostetler - Bruce H. Edwards - Houghton Mifflin Co. – 2006 – Print  
ISBN: 9780618503049

### Additional Registration Information:

Operating a graphing calculator is an integral part of this course. Students benefit from having a calculator equivalent to a TI-83+ or TI-84. A limited number of calculators will be available for students to check out for the entire year.

## Computer Programming 1

**MAZ-120-00** ► In-Person

Grades: 10-12	Course Duration: Semester-long
Fulfills Elective Requirement for Graduation & STEM Pathway Requirement at Lakeville South	
Prerequisite: Intermediate Algebra	

### Course Description:

This course is the study of programming languages used to program PC's.

The primary units of study include understanding the computer system, history of programming languages, numeric and string variables, if-else statements, while loops, and arrays.

The students will demonstrate learning through written programs, homework assignments, tests and projects.

### Course Recommendation:

This course is recommended for students who have an interest in understanding how computer programs work and the desire to write simple programs.

### Board Approved Primary Resource:

None

### Additional Registration Information:

The specific computer language used may vary. This course does not meet the requirements for NCAA approved core courses. See your Dean for more information.

## Computer Programming 2

**MAZ-220-00** ► In-Person

Grades: 10-12	Course Duration: Semester-long
Fulfills Elective Requirement for Graduation	
Prerequisite: Computer Programming 1	

### Course Description:

This course is the study of advanced topics of computer programming.

The primary units of study include editing, compiling, and executing classes and methods; graphics and Graphical User Interface's working with numeric and string variables, if-else statements, while loops, and arrays. The students will demonstrate learning through written programs, homework assignments, tests and projects.

### Course Recommendation:

This course is recommended for students who have an interest in understanding how computer programs work and the desire to create programs.

### Board Approved Primary Resource:

None

### Additional Registration Information:

The specific computer language used may vary. This course does not meet the requirements for NCAA approved core courses. See your Dean for more information.

## Advanced Placement (AP) Computer Science A

**MAZ-A00-11 / MAZ-A00-12** ► In-Person

Grades: 10-12	Course Duration: Year-long
Fulfills Elective Requirement for Graduation & STEM Pathway Requirement at Lakeville South	
Prerequisite: Intermediate Algebra and Geometry	

### Course Description:

This course is the study of object-oriented programming methodology with an emphasis on problem solving and algorithm development. It also includes the study of data structures and abstraction. This course will be taught using the JAVA language.

The primary units of study include computer systems, variables, expressions, input/output, conditionals, loops, object-oriented programming, arrays, parameters, simple recursion, searching, sorting, and strings.

The students will demonstrate learning through written programs, handwritten assignments, tests and projects.

### Course Recommendation:

This course is recommended as course for future computer science majors and people who will major in other disciplines that require significant involvement with computing.

### Board Approved Primary Resource:

Java Methods, Third AP Edition.  
Litvin and Litvin. - Skylight Publishing – 2015 – Print  
ISBN: 978-0-9824775-6-4

### Additional Registration Information:

AP Computer Science A is designed to be the equivalent of an introductory college-programming course. It is highly recommended that students be concurrently enrolled in or have completed Algebra 2. This course does not meet the requirements for NCAA approved core courses. See your Dean for more information.



# MUSIC

The major objective of the Music Department is to cultivate, educate and nurture the musical talent and creativity of students. We will accomplish this through performance excellence, music literacy, history and exposure to a variety of musical styles and genres. Our goal is to make music a lifelong passion in each of our students' lives.

## Concert Band

**FAB-100-11 / FAB-100-12** ► In-Person

Grades: 9-12	Course Duration: Year-long
Fulfills Arts or Elective Requirement for Graduation	
Prerequisite: Previous Instrumental Experience	

### Course Description:

This course is the study of instrumental music in a concert band setting.

The primary units of study include the preparation of wind band repertoire from diverse style periods and representing a variety of genres.

The students will demonstrate learning through written work, individual assessments and public performance.

### Course Recommendation:

This course is recommended for students with prior playing experience on brass, woodwind or percussion instruments.

### Board Approved Primary Resource:

None

### Additional Registration Information:

A rental fee will be charged for the use of district-owned instruments. Students are expected to adhere to the concert band performance schedule and fulfill band activities as set forth in the total high school program. The number and nature of the first semester Concert Band will be determined by enrollment and instrumentation. Students may enroll and receive credit for this course more than once. Students should be sure to register for semester 1 and semester 2 of this course.

## Jazz Band

**FAB-120-11 / FAB-120-12** ► In-Person

Grades: 9-12	Course Duration: Year-long
Fulfills Arts or Elective Requirement for Graduation	
Prerequisite: Audition	

### Course Description:

This course is the study of jazz music in a big band setting.

The primary units of study include the preparation of jazz band repertoire from diverse style periods and representing a variety of genres.

The students will demonstrate learning through written work, individual assessments and public performance.

### Course Recommendation:

This course is recommended for students with prior playing experience on saxophone, trumpet, trombone, and rhythm section (drum set, piano, guitar and bass).

### Board Approved Primary Resource:

None

### Additional Registration Information:

A rental fee will be charged for the use of district-owned instruments. Jazz Band is an auditioned ensemble. Those interested must set up an audition through the band director. The number and nature of the Jazz Band will be determined by enrollment and instrumentation. Students are expected to adhere to the jazz band schedule and fulfill band activities as set forth in the total high school program. Students may enroll and receive credit for this course more than once. All students accepted into Jazz Band must also be enrolled in one of the concert ensembles. Students should register for semester 1 and semester 2 of this course.

## INSTRUMENTAL

### Symphonic Band

**FAB-130-11 / FAB-130-12** ► In-Person

Grades: 9-12	Course Duration: Year-long
Fulfills Arts or Elective Requirement for Graduation	
Prerequisite: Previous Instrumental Experience	

#### Course Description:

This course is the study of instrumental music in a symphonic band setting.

The primary units of study include the preparation of wind band repertoire from diverse style periods and representing a variety of genres.

The students will demonstrate learning through written work, individual assessments and public performance.

#### Course Recommendation:

This course is recommended for students with prior playing experience on brass, woodwind or percussion instruments.

#### Board Approved Primary Resource:

None

#### Additional Registration Information:

A rental fee will be charged for the use of district-owned instruments. Students are expected to adhere to the concert band schedule and fulfill band activities as set forth in the total high school program. Students in Symphonic Band must be in grades 10-12; there is no audition requirement. Students may enroll and receive credit for this course more than once. Students should be sure to register for semester 1 and semester 2 of this course.

### Wind Ensemble

**FAB-140-11 / FAB-140-12** ► In-Person (South)

Grades: 9-12	Course Duration: Year-long
Fulfills Arts or Elective Requirement for Graduation	
Prerequisite: Audition	

#### Course Description:

This course is the study of instrumental music in a wind ensemble setting.

The primary units of study include the preparation of wind band repertoire from diverse style periods and representing a variety of genres.

The students will demonstrate learning through written work, individual assessments and public performance.

#### Course Recommendation:

This course is recommended for students with prior playing experience on brass, woodwind or percussion instruments, audition required.

#### Board Approved Primary Resource:

None

#### Additional Registration Information:

A rental fee will be charged for the use of district-owned instruments. Students are expected to adhere to the concert band schedule and fulfill band activities as set forth in the total high school program. Students in Wind Ensemble must be in grades 10-12; an audition is required in the spring of the previous year to determine placement in this ensemble. Students may enroll and receive credit for this course more than once. Students should be sure to register for semester 1 and semester 2 of this course.



## Cantabile / Bel Canto

**FAC-100-11 / FAC-100-12** ► In-Person (North)  
**FAC-120-11 / FAC-120-12** ► In-Person (South)

Grades: 9-12 Treble Voices	Course Duration: Year-long (unless instructor approved)
Fulfills Arts or Elective Requirement for Graduation	
Prerequisite: Audition	

### Course Description:

This course is the study of a variety of styles of choral music as well as a study in vocal technique. This is done in the setting of daily choral rehearsals.

The primary units of study include choral music from the following genres: sacred, multicultural, gospel, secular, pop, Broadway, folk. A variety of languages will also be used in the performance music.

The students will demonstrate learning through public performances, individual voice tests and written evaluations.

### Course Recommendation:

Cantabile/Bel Canto is recommended for any student interested in participating in a beginning choir with treble voices.

### Board Approved Primary Resource:

None

### Additional Registration Information:

Students may enroll and receive credit for this course more than once. Student audition is required. All Choir students are expected to participate in the concerts. Students are expected to adhere to the concert schedule, and fulfill choral activities as set forth in the total high school program. Students should be sure to register for semester 1 and semester 2 of this course.

## Canto Fiero / Cambiata

**FAC-130-11 / FAC-130-12** ► In-Person (North)  
**FAC-150-11 / FAC-150-12** ► In-Person (South)

Grades: 9-12 Tenor/Bass Voices	Course Duration: Year-long (Unless approved by instructor)
Fulfills Arts or Elective Requirement for Graduation	
Prerequisite: None	

### Course Description:

This course is the study of a variety of styles of choral music as well as a study in vocal technique. This is done in the setting of daily choral rehearsals.

The primary units of study include choral music from the following genres: sacred, multicultural, gospel, secular, pop, Broadway, folk. A variety of languages will also be used in the performance music.

The students will demonstrate learning through public performances, individual voice tests and written evaluations.

### Course Recommendation:

Canto Fiero / Cambiata is recommended for any student interested in participating in a beginning choir with tenor/bass voices.

### Board Approved Primary Resource:

None

### Additional Registration Information:

Students may enroll and receive credit for this course more than once. All Choir students are expected to participate in the concerts. Students are expected to adhere to the concert schedule, and fulfill choral activities as set forth in the total high school program. Students should be sure to register for semester 1 and semester 2 of this course.

## VOCAL

**Chorale / Concert Chorale**

**FAC-140-11 / FAC-140-12** ► In-Person (North)  
**FAC-190-11 / FAC-190-12** ► In-Person (South)

Grades: 10-12	Course Duration: Year-long
Fulfills Arts or Elective Requirement for Graduation	
Prerequisite: Audition	

**Course Description:**

This course is the study of a variety of styles of choral music as well as a study in vocal technique. This is done in the setting of daily choral rehearsals.

The primary units of study include choral music from the following genres: sacred, multicultural, gospel, secular, pop, Broadway, folk. A variety of languages will also be used in the performance music.

The students will demonstrate learning through public performances, individual voice tests and written evaluations.

**Course Recommendation:**

Chorale is recommended for students who have previous choral experience.

**Board Approved Primary Resource:**

None

**Additional Registration Information:**

Students may enroll and receive credit for this course more than once. Student audition is required. All Choir students are expected to participate in the concerts. Students are expected to adhere to the concert schedule, and fulfill choral activities as set forth in the total high school program. Students should be sure to register for semester 1 and semester 2 of this course.

**Kapella / Harmony**

**FAC-160-11 / FAC-160-12** ► In-Person (North)  
**FAC-180-11 / FAC-180-12** ► In-Person (South)

Grades: 10-12 Treble Voices	Course Duration: Year-long
Fulfills Arts or Elective Requirement for Graduation	
Prerequisite: Audition	

**Course Description:**

This course is the study of a variety of styles of acapella choral music as well as a study in vocal technique. This is done in the setting of daily choral rehearsals.

The primary units of study include primarily acapella choral music from the following genres: sacred, multicultural, gospel, secular, pop, Broadway, folk. A variety of languages will also be used in the performance music.

The students will demonstrate learning through public performances, individual voice tests and written evaluations.

**Course Recommendation:**

Kapella is recommended for any student interested in participating in an advanced women's choir.

**Board Approved Primary Resource:**

None

**Additional Registration Information:**

Students may enroll and receive credit for this course more than once. Student audition is required. All Choir students are expected to participate in the concerts. Students are expected to adhere to the concert schedule, and fulfill choral activities as set forth in the total high school program. Students should make every effort to register for semester 1 and semester 2 of this course.

## Now & Then Singers / Encore

**FAC-110-11 / FAC-110-12** ► In-Person (North)

**FAC-170-11 / FAC-170-12** ► In-Person (South)

Grades: 10-12	Course Duration: Year-long
Location: North (Now & Then Singers) / South (Encore)	
Fulfills Arts or Elective Requirement for Graduation	
Prerequisite: Audition	

### Course Description:

This course provides musically talented students with the opportunity to participate in a select ensemble.

The primary units of study include specializing in the areas of quality performance of pop, jazz and madrigal literature. Members will also receive experience in the area of vocal improvisation, and ear training.

The students will demonstrate learning through public performances, written evaluations, and individual voice tests.

### Course Recommendation:

Encore/Now and Then Singers is a select choir and is recommended for students who have previous choral experience.

### Board Approved Primary Resource:

None

### Additional Registration Information:

Students may enroll and receive credit for this course more than once. Student audition is required. All choir students are expected to participate in the concerts. Students are expected to adhere to the concert schedule, and fulfill choral activities as set forth in the total high school program. Students should be sure to register for semester 1 and semester 2 of this course.

## FINE ART ELECTIVES

## Advanced Placement (AP) Music Theory

**FAT-A00-11 / FAT-A00-12** ► In-Person

Grades: 11-12	Course Duration: Year-long
Fulfills Arts or Elective Requirement for Graduation	
Prerequisite: None	

### Course Description:

AP Music Theory is a year-long course which roughly parallels the content of a college freshman theory course and prepares the student to take the national AP Music Theory Exam in May. Material is covered at a rapid pace to fit into the school year. Significant critical/analytical/creative thinking skills are fostered in most parts of the course while broadening the students' understanding of the courses' overarching big ideas of pitch, rhythm, form, and musical design. AP Examination questions emphasize the understanding and application of musical knowledge into usable musical competency; the ability to analyze performed music, analyze notated music, convert between performed and notated music and complete music based on cues. Upon completion of this course, students' understanding of the language of music will have advanced leading to lifelong musical engagement and practice.

### Course Recommendation:

This course is recommended for those considering a career in music.

### Board Approved Primary Resource:

Musician's Guide to Theory and Analysis,  
Fourth AP Edition  
Jane Piper Clendinning & Elizabeth West  
Marvin  
ISBN (ebook): 978-0-393-44238-0

### Additional Registration Information:

This course will be offered each year at LSHS and LNHS. See your Dean for more information. Summer homework is required.

## Music Theory Fundamentals

**FAT-100-00** ► In-Person (North)

Grades: 10-12	Course Duration: Semester-long
Fulfills Arts or Elective Requirement for Graduation	
Prerequisite: None	

### Course Description:

This course is the study of the basic materials of music that are heard or presented in a musical score.

The primary units of study include notation, intervals, scales and keys, chords, metric organization, rhythmic patterns, sight singing, and analysis and construction of musical compositions.

The students will demonstrate learning through written and aural tests, and written and aural assignments.

### Course Recommendation:

This course is recommended for those interested in knowing more about how music is constructed and functions.

### Board Approved Primary Resource:

Music in Theory and Practice, Volume 1  
Bruce Benward - Marilyn Nadine Saker -  
McGraw-Hill – 2009 – Print  
ISBN: 9780073101873

Music in Theory and Practice, Volume 1  
Bruce Benward - Marilyn Nadine Saker -  
McGraw-Hill – 2009 – Workbook  
ISBN: 9780077294236

### Additional Registration Information:

This course will be offered every other year at LNHS. It will not be offered during the 2023-2024 school year but will be offered in 2024-2025 school year. This course is offered at LNHS. LSHS students need to provide their own transportation.

## Guitar

**FAZ-100-00** ► In-Person

Grades: 9-12	Course Duration: Semester-long
Fulfills Arts or Elective Requirement for Graduation	
Prerequisite: None	

### Course Description:

This course is the study of beginning guitar. The primary units of study include chord progressions, tuning the instrument, note reading, playing bass, barre chords and small ensemble playing.

The students will demonstrate learning through written worksheets, solo and small ensemble recitals, weekly proficiencies, and written and playing tests.

### Course Recommendation:

This course is recommended for students who have no prior guitar experience.

### Board Approved Primary Resource:

H.O.T. Hands-on Training First Year Guitar  
Nancy Lee Marster - Class Guitar Resources, Inc. – 2007 - Print.  
ISBN: 9780977443352

### Additional Registration Information:

A rental fee will be charged for the use of a district-owned acoustical guitar. Students may bring their own instrument.

## Piano

**FAZ-120-00** ► In-Person

Grades: 9-12	Course Duration: Semester-long
Fulfills Arts or Elective Requirement for Graduation	
Prerequisite: None	

### Course Description:

This course is the study of beginning piano.

The primary units of study include playing within 4 hand positions, basic rhythms, note reading, and scales and chords for the keys of C, D, F, G and A.

The students will demonstrate learning through written worksheets, weekly proficiencies, and written and performance tests.

### Course Recommendation:

This course is recommended for students who have no prior piano experience although previous experience is allowed.

### Board Approved Primary Resource:

Alfred's Basic Adult Piano Course  
Morton Manus – Alfred Publishing Co. – 1999  
– Print  
ISBN: 9780739002810

### Additional Registration Information:

None

## FINE ART ELECTIVES

## World Drumming

FAZ-130-00 ► In-Person (South)

Grades: 9-12	Course Duration: Semester-long
Fulfills Arts or Elective Requirement for Graduation	
Prerequisite: None	

**Course Description:**

This semester-long course is designed for students with an interest in exploring multiple genres of music through the medium of drumming.

The course will emphasize styles and history of music from many cultures, not just published music. Music will be taught in a variety of styles including rote, notation, improvisation and composition.

Successful completion of this course, World Drumming, satisfies one of the two arts credits needed for graduation.

**Course Recommendation:**

None

**Board Approved Primary Resource:**

The Bucket Book: A Junkyard Percussion Manual by David Birrow

Steel Pan in Education: A history of the Northern Illinois University Steelband

The Essence of Afro-Cuban Percussion & Drum Set by Ed Uribe

The Essence of Brazilian Drumming and Drum Set by Ed Uribe

The Samba School by Dana Monteiro

**Additional Registration Information:**

None

## Music Production

FAZ-140-00 ► In-Person

Grades: 9-12	Course Duration: Semester-long
Fulfills Arts or Elective Requirement for Graduation	
Prerequisite: None	

**Course Description:**

This semester-long course is designed for the student who wants to explore music production. Through class work, independent projects, and solo or ensemble rehearsal, students will learn the basic skills, theory, and techniques of music production.

Students can have some previous training in music—either vocal or instrumental, but it is not necessary. Using today's music studio technology and techniques, students will create recorded works in many different styles.

Successful completion of this course, Intro to Music Production, satisfies one of the two arts credits needed for graduation.

**Course Recommendation:**

None

**Board Approved Primary Resource:**

Electronic Music School, A Contemporary Approach to Teaching Musical Creativity; Authors: Will Kuhn and Ethan Hein

Teaching Music Through Composition, A Curriculum Using Technology; Authors: Barbara Freedman

**Additional Registration Information:**

None

## Music Lab

FAZ-150-00 ► In-Person

Grades: 9-12	Course Duration: Semester-long
Fulfills Arts or Elective Requirement for Graduation	
Prerequisite: None	

### Course Description:

This semester-long and repeatable course is designed for students with an interest in exploring their desired genre of music through a varied medium of music making instruments and electronic tools. Upon registration, the teacher will survey all students to gather information as to which genres and instruments should be the primary focus of instruction. Genre examples could be, but are not limited to, rock bands with vocalists, mariachi ensembles, horn bands, electronic music and small acoustic ensembles. Students will study song form together and have the opportunity to rehearse in their desired musical ensemble or as a soloist on music of their choosing with instructor guidance.

### Course Recommendation:

None

### Board Approved Primary Resource:

The resources used will be guided by the musical genres the students are studying.

### Additional Registration Information:

None

# PHYSICAL ED. & HEALTH

The Physical Education Department provides each student with an opportunity to develop into a physically-educated person; one who learns skills necessary to perform a variety of physical activities, is physically fit, participates regularly in physical activity, and knows the benefits from involvement in regular physical activity and its contributions to a healthy lifestyle. The department offers a wide variety of activities to best meet the interests of all students to accomplish these goals.

Health education is the process by which people learn about their health and more specifically how to improve their health. The goal of the health department is to provide learning experiences that enable students to acquire knowledge and skills needed to make quality health decisions. When people are healthy they can make good decisions and lead productive lives.

Lakeville High Schools require the following for physical education and health for graduation:

- 1 semester course of Physical Education

- 1 semester course of Health Issues

*Note: For the Class of 2027, the only classes that will Fulfill the PE requirement are:*

*PE 9, PE 10-12, Online PE*



## Competitive Team Sports

PEP-100-00 ► In-Person

Grades: 10-12	Course Duration: Semester-long
Fulfills Physical Education Elective or Elective Requirement for Graduation	
*Does not fulfill PE Requirement for Class of 2027	
Prerequisite: Physical Education 9 or 10-12 and participation in a sport or activity at the high school level	

### Course Description:

This course is the study of team sports in a competitive setting. The primary units of study include softball, basketball, lacrosse, team handball, volleyball, floor hockey, flag football, and personal fitness assessment.

The students will demonstrate learning through participation and tests at the completion of each unit.

### Course Recommendation:

This course is recommended for students who enjoy being part of a team in sports with a higher level of intensity and fitness.

### Board Approved Primary Resources:

None

### Additional Registration Information:

None

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## Physical Education 9

PEP-109-00 ► In-Person

Grades: 9	Course Duration: Semester-long
Fulfills Physical Education Credit	
Prerequisite: None	

### Course Description:

This physical education course for 9th grade students satisfies state/local academic standards & graduation requirements and will expand and build upon the concepts and skills learned in previous physical education courses. Students will continue to enhance their quality of movement by understanding, developing, and transferring fitness and sports-based concepts and skills to various movement activities and will understand the fundamentals of Meaningful Physical Education. This course is designed to help move students toward confidently and competently caring for their physical and mental wellness by finding meaningful and enjoyable activities they can do for their lifetime.

### Course Recommendation:

This course is recommended for 9th grade students who enjoy competitively participating in a variety of physical activities.

### Board Approved Primary Resource:

None

### Additional Registration Information:

None

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## Physical Education 10-12

**PEP-150-00** ▶ In-Person  
**PEP-150-00E** ▶ Early Bird

Grades: 10-12	Course Duration: Semester-long
Fulfills Physical Education Elective or Elective Requirement for Graduation	
Prerequisite: None	

### Course Description:

This physical education course for 10th-12th grade students satisfies state/local academic standards & graduation requirements and will expand and build upon the concepts and skills learned in previous physical education courses. Students will continue to enhance their quality of movement by understanding, developing, and transferring fitness and sports-based concepts and skills to various movement activities and will understand the fundamentals of Meaningful Physical Education. This course is designed to help move students toward confidently and competently caring for their physical and mental wellness by finding meaningful and enjoyable activities they can do for their lifetime.

### Course Recommendation:

This course is recommended for 10-12th grade students who enjoy competitively participating in a variety of physical activities.

### Board Approved Primary Resource:

None

### Additional Registration Information:

None

## Health Issues

**PEH-100-00** ▶ In-Person  
**PEH-100-00H** ▶ Hybrid  
**PEH-100-00V** ▶ Virtual  
**PEP-109-00** ▶ PEH-100-00L(LinK<sup>12</sup>)

Grades: 10-12	Course Duration: Semester-long
Fulfills Health Requirement for Graduation	
Prerequisite: None	

### Course Description:

The students will be expected to understand the concepts related to food and nutrients in order to plan a healthy meal and become a healthier individual.

Students will examine characteristics of mental health including mental illnesses and healthy coping strategies. The Family Life unit involves healthy relationships, reasons to postpone sexual activity and prevention of pregnancy and sexually transmitted infections. Students will examine the risks of commonly abused drugs; Students will demonstrate proper CPR and AED techniques.

### Board approved Primary Resource:

Lifetime Health  
 David P Friedman - Curtis C Stine - Shannon Whalen - Holt, Rinehart and Winston – 2004 – Print  
 ISBN: 9780030646140

American Red Cross participants manual  
 Stay Well 2016  
 ISBN: 978-1-58480-665-3

### Additional Registration Information:

This course requires an additional fee for CPR materials and certification. The hybrid course is offered at LNHS & LSHS. Only the Link12 Lakeville online course does not meet the requirements for NCAA approved core courses. See your dean for more information.

## Dance

**PEP-120-00** ► In-Person

Grades: 10-12	Course Duration: Semester-long
Fulfills Physical Education Elective or Elective Requirement for Graduation	
*Does not fulfill PE Requirement for Class of 2027	
Prerequisite: None	

### Course Description:

This course provides an introduction to a variety of social dance styles. Students are familiarized with social dance vocabulary, fundamentals, and movement approaches designed to give students a positive dance experience. Students will demonstrate learning through performing and choreographing dances.

### Course Recommendation:

This course is recommended for students who wish to develop an appreciation of dance as a method of cultural expression.

### Board Approved Primary Resource:

None

### Additional Registration Information:

Colleges and universities may or may not accept this course as an Arts credit.

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## Introduction to Sports Medicine

**PEZ-100-00** ► In-Person (South)

Grades: 10-12	Course Duration: Semester-long
Fulfills Elective or Elective Requirement for Graduation	
Prerequisite: None	

### Course Description:

This course is the study of anatomy and kinesiology and key injuries as they relate to sports. The primary units of study include medical terminology, lower leg, ankle and foot, knee, thigh and hip, low back, shoulder, elbow, wrist, hand, fingers and thumb. The students will demonstrate learning through tests at the completion of each unit.

### Course Recommendation:

This course is recommended for students who may be interested in some field of medicine as a career or for students who may be interested in athletics with medicine as a comparable area of interest.

### Board Approved Primary Resource:

Introduction to Health Science Technology  
Louise Simmers - Thomson/Delmar Learning –  
2004 – Print  
ISBN: 9781401811280

### Additional Registration Information:

The course is offered at LSHS only. LNHS students provide their own transportation.

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## Introduction to Weight Training

PEP-130-00 ► In-Person

Grades: 9-12	Course Duration: Semester-long
Fulfills Physical Education Elective or Elective Requirement for Graduation	
*Does not fulfill PE Requirement for Class of 2027	
Prerequisite: None	

### Course Description:

This course is the study of basic resistance weight training.

The primary units of study include learning basic terminology, names and uses of equipment, safety techniques, how to organize and log basic workouts, how to assess fitness levels and to establish semester goals.

The students will demonstrate learning through the performing and logging of workouts, classroom worksheets and written tests.

### Course Recommendation:

This course is recommended for 10th-12th grade students with little or no weight training experience who are interested in weight training.

### Board Approved Primary Resource:

None

### Additional Registration Information:

None

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## Intermediate Weight Training

PEP-230-00 ► In-Person

Grades: 10-12	Course Duration: Semester-long
Fulfills Physical Education Elective or Elective Requirement for Graduation	
*Does not fulfill PE Requirement for Class of 2027	
Prerequisite: Intro to Weight Training or Instructor/Strength Coach Approval	

### Course Description:

This course is the study of resistance strength training.

The primary units of study include learning muscle groups associated with exercise movements, an increased use and level of weight training terminology, assessing fitness levels, establishing semester goals and organizing basic workouts centered on personal goals.

The students will demonstrate learning through the performing and logging of workouts, classroom worksheets and tests.

### Course Recommendation:

This course is recommended for 10th-12th grade students who have experience in the Fitness Center but little or no experience in basic weight training terminology and developing personal fitness programs.

### Board Approved Primary Resource:

None

### Additional Registration Information:

None

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## Advanced Weight Training

PEP-330-00 ► In-Person

Grades: 11-12	Course Duration: Semester-long
Fulfills Physical Education Elective or Elective Requirement for Graduation	
*Does not fulfill PE Requirement for Class of 2027	
Prerequisite: Intermediate Weight Training or Instructor/Strength Coach Approval	

### Course Description:

This course is an advanced study of resistance weight training.

The primary units of study include the assessment of fitness levels, establishing semester goals and long-term goals, developing personal fitness programs based on goals, flexibility, nutrition and self-care as they relate to strength training as well as additional information regarding training techniques and nutritional supplements.

The students will demonstrate learning through the performing and logging of workouts, classroom worksheets and tests.

### Course Recommendation:

This course is recommended for students with a thorough knowledge of the Fitness Center and a strong desire for self-improvement through established personal goals.

### Board Approved Primary Resource:

None

### Additional Registration Information:

None

## Mega Weight Training

PEP-430-00 ► In-Person

Grades: 11-12	Course Duration: Semester-long
Fulfills Physical Education Elective or Elective Requirement for Graduation	
*Does not fulfill PE Requirement for Class of 2027	
Prerequisite: Advanced Weight Training or Instructor/Strength Coach Approval	

### Course Description:

This course is the advanced study of resistance weight training.

The primary units of study include the assessment of fitness levels, establishing short and long-term goals, assist others in establishing short and long-term goals, developing personal fitness programs based on goals, developing personal fitness programs for others as well as providing information to other students as it relates to supplements and training techniques.

The students will demonstrate learning through the performing and logging of workouts, classroom worksheets and tests.

### Course Recommendation:

This course is recommended for students who have thorough knowledge and understanding of the Fitness Center and have experience in establishing personal fitness programs.

### Board Approved Primary Resource:

None

### Additional Registration Information:

None

## Lifetime and Recreation Activities

**PEP-140-00** ► In-Person

Grades: 10-12	Course Duration: Semester-long
Fulfills Physical Education Elective or Elective Requirement for Graduation	
*Does not fulfill PE Requirement for Class of 2027	
Prerequisite: None	

### Course Description:

This course is the study of a wide variety of Lifetime Activities. The primary units of study include bocce ball, horseshoes, darts, croquet, disc golf, washers, juggling, dominoes, table tennis, shuffleboard, and personal fitness assessment. The students will demonstrate learning through participation and written tests at the completion of each unit.

### Course Recommendation:

This course is recommended for students who are interested in non-traditional physical education activities they can play and teach others, as they get older.

### Board Approved Primary Resources:

None

### Additional Registration Information:

None

## Physical Education Online

**PEP-150-00V** ► Virtual

**PEP-150-00L** ► Online (LinK<sup>12</sup>)

Grades: 10-12 (North and South) 9-12 (LinK <sup>12</sup> )	Course Duration: Semester-long
Fulfills Physical Education Elective or Elective Requirement for Graduation	
Prerequisite: None	

### Course Description:

This course is the study of the fundamental components and principles of fitness, skills to various movement activities and the understanding of the fundamentals of Meaningful Physical Education.. The primary units of study include: safety guidelines, proper technique, various forms of dance, components of fitness and exercise principles such as finding your Target Heart Rate and FITT (frequency, intensity, time and type). The students will demonstrate learning through assignments, quizzes, projects and discussions, as well as weekly documentation of heart rate monitored physical exercise. This course is designed to help move students toward confidently and competently caring for their physical and mental wellness by finding meaningful and enjoyable activities they can do for their lifetime.

### Board Approved Primary Resource:

There is no additional text for this course.

### Additional Registration Information:

This course has an exercise component included. Each student is required to complete a minimum of 5 hours of exercise each week. Exercise will be recorded on a fitness log and documented using a Heart Rate Monitor that will be provided. Data will be downloaded and submitted to the instructor on a weekly basis.

## Racquet Sports

**PEP-160-00** ► In-Person

Grades: 9-12	Course Duration: Semester-long
Fulfills Physical Education Elective or Elective Requirement for Graduation	
*Does not fulfill PE Requirement for Class of 2027	
Prerequisite: None	

### Course Description:

This course is the study of a wide variety of racquet/paddle sports.

The primary units of study include tennis, badminton, table tennis, spaceball, pickleball, paddle tennis and personal fitness assessment.

The students will demonstrate learning through participation and tests.

### Course Recommendation:

This course is recommended for students who enjoy racquet and paddle sports in a moderately competitive setting.

### Board Approved Primary Resource:

None

### Additional Registration Information:

None

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## Advanced Racquet Sports

**PEP-260-00** ► In-Person

Grades: 10-12	Course Duration: Semester-long
Fulfills Physical Education Elective or Elective Requirement for Graduation	
*Does not fulfill PE Requirement for Class of 2027	
Prerequisite: None	

### Course Description:

This course is the study of racquet and paddle sports for students who have basic knowledge and fundamentals.

The primary units of study include tennis, badminton, table tennis, speedminton, pickleball, paddle tennis and personal fitness assessment.

The students will demonstrate learning through participation, projects and tests.

### Course Recommendation:

This course is recommended for students who are familiar with racquet/paddle sports game rules and fundamentals.

### Board Approved Primary Resource:

None

### Additional Registration Information:

None

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## Coaching and Officiating

**PEP-170-00** ► In-Person

Grades: 11-12	Course Duration: Semester-long
Fulfills Physical Education Elective or Elective Requirement for Graduation	
*Does not fulfill PE Requirement for Class of 2027	
Prerequisite: None	

### Course Description:

Coaching and Officiating is an elective course designed for students in grades 11 and 12. Students will learn rules, regulations, mechanics, professionalism, and conflict resolution skills. Students will be given the opportunity to demonstrate coaching and officiating skills in the following sports: basketball, soccer, baseball, softball, football, and volleyball. Students will have the opportunity to achieve both youth and officiating certification(s). Students will also participate in physical performance and fitness activities.

### Course Recommendation:

This course is recommended for students who are interested in coaching and officiating.

### Board Approved Primary Resource:

None

### Additional Registration Information:

This course does NOT fulfill the PE requirement for students with graduation years of 2024, 2025 and 2026.

## Stress Management / First Aid

**PEZ-120-00H** ► Hybrid

Grades: 9-12	Course Duration: Semester-long
Fulfills Elective Requirement for Graduation	
Prerequisite: None	

### Course Description:

This course is the study of managing stress and learning how to care for illnesses and injuries.

The primary units of study include understanding stress, coping strategies, relaxation training, communication, personality traits, time management, sleep disorders, common illnesses & basic first aid.

### Course Recommendation:

This course is recommended for students who want to learn how to manage their stress better and have an interest in learning basic first aid techniques.

### Board Approved Primary Resource:

American Red Cross participants manual  
Stay Well 2016  
ISBN: 978-1-58480-665-3

### Additional Registration Information:

None



## Unified Physical Education

**PEA-100-00** ► In-Person

Grades: 11-12	Course Duration: Semester-long
Fulfills Physical Education Elective or Elective Requirement for Graduation	
*Does not fulfill PE Requirement for Class of 2027	
Prerequisite: None	

### Course Description:

This course is the study of sports, recreation, wellness and leadership. Students with and without intellectual disabilities participate in the course activities together. Students will support one another with increasing physical fitness and improving daily health habits. Through ongoing leadership opportunities, members of this class will be empowered to help create a more inclusive and accepting school environment for all students.

Students will learn through demonstrating competency in a variety of motor skills and movement patterns, applying the knowledge of concepts, principles and strategies related to movement and performance, demonstrating the knowledge and skills to maintain a health-enhancing level of physical activity and fitness, exhibiting responsible personal and social behavior that respects self and others, and recognizing the value of physical activity for health, enjoyment, challenge and social interaction.

### Course Recommendation:

This course is recommended for students who want to increase their physical fitness and sport-specific skills while fostering new friendships and social inclusion for students with intellectual disabilities.

### Board Approved Primary Resource:

Unified Physical Education, Special Olympics Minnesota

### Additional Registration Information:

Students in this class may have the opportunity to participate in Special Olympics Unified Sports competitions outside of regularly scheduled class time.

# SCIENCE

We live in a world increasingly dominated by science and technology. As the cornerstone of STEM, the ISD194 science department is training the next generation of scientists and developing responsible citizens through inquiry experiences and opportunities to embrace powerful subject matter. All students need the ability to understand the nature of the world around them to make informed choices and decisions through firsthand experience.

Students looking to pursue post-secondary education are strongly encouraged to consider a minimum of 8 semesters of science coursework throughout their 9th-12th grade academic career.

## Science requirements for all students

Students need 3 years or 6 semesters for graduation. The following science classes are required:

- 1 year of Physical Science

- 1 year of Biology or Honors Biology or Honors Principles of Biomedical Science (or AP Biology)

- 1 year of Chemistry (or Honors Chemistry or AP Chemistry) or 1 year of Physics (or AP Physics 1)

OR students may choose the Rigorous Course Waiver Sequence below:

Students need 3 years or 6 semesters for graduation. The following science classes are required:

- 1 year of Honors Biology or Honors Principles of Biomedical Science (or AP Biology)

- 1 year of Chemistry (or Honors Chemistry or AP Chemistry)

- 1 year of Physics (or AP Physics 1)

## Physical Science

**SCZ-109-11 / SCZ-109-12** ► In-Person  
**SCZ-109-11L / SCZ-109-12L** ► Online (Link<sup>12</sup>)

Grades: 9	Course Duration: Year-long
Fulfills Physical Science Requirement for Graduation	
Prerequisite: None	

### Course Description:

This course is the study of chemical concepts and the fundamental laws of physics that govern both our interactions with the physical world and outer space.

The units that pertain to Chemistry include the introduction to scientific methods, matter, thermodynamics, atomic structure, chemical bonds, the periodic table, chemical and nuclear reactions. The units that pertain to Physics include motion, forces, energy, waves, and electricity & magnetism. Earth science standards will be emphasized where appropriate with connections to geology, climatology and astronomy.

Students will be assessed by their performance on tests, quizzes, activities and homework.

### Board Approved Primary Source:

Holt Science Spectrum Physical Science  
 Ken Dobson - John Holman - Michael Roberts  
 – Holt-McDougall – 2006 – Print  
 ISBN: 9780030393937

Prentice Hall Earth Science  
 Edward J Tarbuck - Frederick K Lutgens -  
 Pearson/Prentice Hall – 2006 – Print  
 ISBN: 978013258525

### Additional Registration Information:

None.

## Biology

**SCB-100-11 / SCB-100-12** ► In-Person  
**SCB-100-11L / SCB-100-12L** ► Online (Link<sup>12</sup>)

Grades: 10-12	Course Duration: Year-long
Fulfills Biology Requirement for Graduation	
Prerequisite: None	

### Course Description:

This course is the study of the living organisms in this world.

The primary units of study include: Science of Biology, Chemistry of Life, Structure and Function of Cells, Structure and Function of DNA, Cell Division, Genetics, Biotechnology, Evolution, Microbiology, Homeostasis of Living Systems, Ecology, Engineering.

The students will demonstrate learning through cooperative learning within experimental lab investigations; formative and summative assessments; and project-based learning that utilizes problem solving and complex thinking skills.

### Board Approved Primary Resource:

Prentice Hall Biology  
 Kenneth R. Miller - Joseph S. Levine - Pearson  
 Prentice Hall – 2006 – Print  
 ISBN: 9780131662551

### Additional Registration Information:

None

## Honors Biology

**SCB-H00-11 / SCB-H00-12** ► In-Person  
**SCB-H00-11L / SCB-H00-12L** ► Online (Link<sup>12</sup>)

Grades: 9-12	Course Duration: Year-long
Fulfills Biology Requirement for Graduation	
Prerequisite: None	

### Course Description:

This course is the study of living organisms in the world.

The primary units of study include: Science of Biology, Chemistry of Life, Structure and Function of Cells, Structure and Function of DNA, Cell Division, Genetics, Biotechnology, Evolution, Microbiology, Homeostasis of Living Systems, Ecology, Engineering.

The students will demonstrate learning through cooperative learning within experimental lab investigation; formative and summative assessments; and project-based learning that utilizes problem solving and complex thinking skills.

### Course Recommendation:

This course is designed for the highly motivated Science student. The faster pace and increased rigor prepares students for more advanced science classes. Students best suited for this class should have excelled in previous science classes.

### Board Approved Primary Resource:

Campbell Essential Biology with Physiology  
3rd edition

Eric J. Simon – Jane B. Reece – Jean L. Dickey  
Pearson Prentice Hall – 2010 – Print  
ISBN: 9780131375055

### Additional Registration Information:

None

## Honors Principles of Biomedical Science

**SCB-H20-11 / SCB-H20-12** ► In-Person (North)

Grades: 9-11	Course Duration: Year-long
Fulfills Biology Requirement for Graduation	
Prerequisite: None	

### Course Description:

This course is the study of biomedical science. Students investigate concepts of biology and medicine as they explore health conditions including heart disease, diabetes, sickle-cell disease, hypercholesterolemia, and infectious diseases. Students determine the factors that led to the death of a fictional woman as they sequentially piece together evidence found in her medical history and her autopsy report. Students will investigate lifestyle choices and medical treatments that might have prolonged the woman's life and demonstrate how the development of disease is related to changes in human body systems.

The units of study include: Medical Investigation (Investigating the Scene, Master the Morgue, Open Investigation), Ecology (Populations, food webs/chains, ecological pyramid, energy transfer...), Clinical Care (Talk to Your Doc, Decoding a Diagnosis, New to the Practice), Outbreaks & Emergencies (Nosocomial Nightmare, Emergency Response, Information Sharing), Innovation (Designing the Future, New Frontier, Invitation to Innovation)

Students will demonstrate learning through use of research and design techniques on experiments, activities, hands-on projects, and problem solving. A variety of assessment tools such as performance rubrics, reflective questioning and End-of-Course (EoC) assessments will be utilized.

### Course Recommendation:

This course is recommended for highly motivated, self-directed learners who have a strong interest in a medical profession.

### Additional Registration Information:

Students enrolled in this Project Lead the Way course can earn concurrent credit (transcripted credits) through the Minnesota State system at St. Cloud State University. Students earning a B or better in the class and a score of 4 or higher on an end of course exam may submit a \$100 registration fee to earn college credit for the course. The course is offered at LNHS only. LSHS students provide their own transportation.

## Honors Human Body Systems

SCN-H00-11 / SCN-H00-12 ► In-Person (North)

Grades: 10-11	Course Duration: Year-long
Fulfills Elective Requirement for Graduation	
Prerequisite: Honors Principles of Biomedical Science or Honors Biology	

### Course Description:

This course is the study of human body systems. Students will examine the interactions of body systems as they explore identity, communication, power, movement, protection, and homeostasis.

The primary units of study include: Identity (human tissues, molecules and cells), communication (brain, electrical communication, chemical communication, communication with the outside world), power (food, oxygen, and water), movement (joints, muscles, blood flow, exercise physiology), protection (skin, bones, lymph and blood cells), and homeostasis (health and wellness). In each of these units, research and design techniques will be utilized on experiments and projects.

Students will demonstrate learning by completing activities, projects and problems using a variety of assessment tools such as performance rubrics, reflective questioning and End-of-Course (EoC) assessments, to deepen and expand their knowledge. Students will design experiments, investigate the structures and functions of the human body, and use data acquisition software to monitor body functions such as muscle movement, reflex and voluntary action, and respiration. Exploring science in action, students will build organs and tissues on a skeleton manikin, work through interesting real world cases, and often play the role of biomedical professionals to solve medical mysteries. Students will practice problem solving with structured activities and progress to open-ended projects and problems that require them to develop planning, documentation, communication, and other professional skills.

### Course Recommendation:

This course is recommended for highly motivated, self-directed learners who have a strong interest in a medical profession.

### Additional Registration Information:

Students enrolled in this Project Lead the Way course can earn concurrent credit (transcripted credits) through the Minnesota State system at St. Cloud State University. Students earning a B or better in the class and a score of 4 or higher on an end of course exam may submit a \$100 registration fee to earn college credit for the course. The course is offered at LNHS only. LSHS students provide their own transportation.

## Honors Medical Interventions

SCN-H20-11 / SCN-H20-12 ► In-Person (North)

Grades: 11-12	Course Duration: Year-long
Fulfills Elective Requirement for Graduation	
Prerequisite: Honors Human Body Systems	

### Course Description:

This course is the study of a variety of medical interventions involved in the prevention, diagnosis, and treatment of disease as they follow the lives of a fictitious family. A “How-To” manual for maintaining overall health and homeostasis in the body, the course will explore how to prevent and fight infection, how to screen and evaluate the code in our DNA, how to prevent, diagnose, and treat cancer, and how to prevail when the organs of the body begin to fail. Through these scenarios students will be exposed to the wide range of interventions related to immunology, surgery, genetics, pharmacology, medical devices, and diagnostics. Each family case scenario will introduce multiple types of interventions; reinforce concepts learned in the previous two Project Lead the Way courses, and present new content. Interventions may range from simple diagnostic tests to treatment of complex diseases and disorders. These interventions will be showcased across the generations of the family and will provide a look at the past, present, and future of biomedical science. Lifestyle choices and preventive measures are emphasized throughout the course as well as the important role that scientific thinking and engineering design play in the development of interventions of the future.

The primary units of study include: How to fight infection, how to screen what is in your genes, how to conquer cancer, and how to prevail when organs fail.

Students will demonstrate learning by completing activities, projects, and problems

using a variety of assessment tools such as performance rubrics, reflective questioning and End-of-Course (EoC) assessments, to deepen and expand their knowledge. Students will practice problem solving with structured activities and progress to open-ended projects and problems that require them to develop planning, documentation, communication, and other professional skills.

### Course Recommendation:

This course is recommended for highly motivated, self-directed learners who have a strong interest in a medical profession.

### Additional Registration Information:

Students enrolled in this Project Lead the Way course can earn concurrent credit (transcripted credits) through the Minnesota State system at St. Cloud State University. Students earning a B or better in the class and a score of 4 or higher on an end of course exam may submit a \$100 registration fee to earn college credit for the course. The course is offered at LNHS only. LSHS students provide their own transportation.

## Honors Biomedical Innovations

SCN-H12-11 / SCN-H12-12 ► In-Person (North)

Grades: 12	Course Duration: Year-long
Fulfills Elective Requirement for Graduation	
Prerequisite: Honors Medical Interventions and Honors Human Body Systems	

### Course Description:

This course is the study of biomedical sciences. In this capstone course, students apply their knowledge and skills to answer questions or solve problems related to the biomedical sciences. Students design innovative solutions for the health challenges of the 21st century as they work through progressively challenging open-ended



problems, addressing topics such as clinical medicine, physiology, biomedical engineering, and public health. They have the opportunity to work on an independent project and may work with a mentor or advisor from a university, hospital, physician's office, or industry.

Throughout the course, students are expected to present their work to an adult audience that may include representatives from the local business and healthcare community.

The primary units of study include: Designing an effective Emergency Room, Exploring Human Physiology, Designing a Medical Innovation, Investigating Environmental Health, and Combating a Public Health Issue.

Students will demonstrate learning by applying what they have learned in the previous three courses to solve unique problems in science, medicine, and healthcare using research and design techniques on experiments and projects. Students will work systematically through required problems before completing optional directed problems or independent work. Each problem is staged as a mission – a unique set of tasks the students must work through to achieve their desired objective. Students are presented with each problem in a Mission File – a document that includes a case brief, a list of completion tasks, links to available resources, as well as a reflection section. Working through the missions not only exposes students to current issues in biomedical science, but it also provides skills-based instruction in research and experimentation – tools students will use to design innovative solutions to real-world problems. Students will use what they learn in these missions as they develop and implement their independent project at the end of the year. A teacher may use additional resources in the community – the guidance of other teachers in the school, the advice of scientists or biomedical professionals, or the knowledge presented in scientific literature to help students achieve each goal. Students practice problem solving with structured activities and progress to open-ended projects and problems that require them to develop planning, documentation, communication, and other professional skills.

### Course Recommendation:

This course is recommended for highly motivated, self-directed learners who have a strong interest in a medical profession.

### Additional Registration Information:

The course is offered at LNHS only. LSHS students provide their own transportation.

## Advanced Placement (AP) Biology

**SCB-A00-11 / SCB-A00-12** ► In-Person  
**SCB-A00-11L / SCB-A00-12L** ► Online (Link<sup>12</sup>)

Grades: 9-12	Course Duration: Year-long
Fulfills Biology Requirement for Graduation	
Prerequisite: None	

### Course Description:

This course guides students to a deeper understanding of biological concepts including the "4 Big Ideas": Evolution, Energetics, Information Storage & Transmission and Systems Interactions.

The primary units of study include: Chemistry of Life, Cell Structure & Function, Cellular Energetics, Cell Communication & Cell Cycle, Heredity, Gene Expression & Regulation, Natural Selection and Ecology.

The students will demonstrate learning through class participation, group projects, individual projects, labs, homework, quizzes and tests.

### Course Recommendation:

This course is designed to be the equivalent of a college introductory biology course usually taken by Biology majors during their first year.

**Board Approved Primary Resource:**

Principles of Life 1st edition  
 By: Hillis, Sadava, Heller and Price  
 Copyright 2012 by Sinauer Associates  
 ISBN: 1-492-9117-6

**Additional Registration Information:**

This course meets the rigorous course waiver for the Biology requirement. Summer homework may be required. In addition to the units of study, the AP Biology curriculum has "Six Science Practices" that will be covered over the course of the year. There is a SIGNIFICANT emphasis on quantitative skills and application of mathematical methods during the course and on the AP exam in May.

## Chemistry

**SCC-100-11 / SCC-100-12** ► In-Person  
**SCC-100-11L / SCC-100-12L** ► Online (Link<sup>12</sup>)

Grades: 9-12	Course Duration: Year-long
Fulfills Chemistry Option for Graduation	
Prerequisite: Geometry	

**Course Description:**

Chemistry is the study of the elements that make-up our world and how they can be combined, arranged and rearranged to modify a substance or create something new. Students will develop skills to answer many types of scientific questions.

The primary units of study include states of matter, bonding, the periodic table, atomic structure, chemical reactions and stoichiometry.

Students will demonstrate learning through laboratory work, worksheets, quizzes, and tests.

**Course Recommendation:**

This course is recommended for students who need to fulfill the Chemistry requirement for graduation.

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**Board Approved Primary Resource:**

Holt Chemistry  
 R. Thomas Myers - Keith B Oldham - Salvatore Tocci - Holt, Rinehart and Winston – 2006 – Print  
 ISBN: 9780030391071

**Additional Registration Information:**

This course, in conjunction with Physics/AP Physics, meets the rigorous course waiver for the Physical Science requirement.

## Honors Chemistry

**SCC-H00-11 / SCC-H00-12** ► In-Person  
**SCC-H00-11L / SCC-H00-12L** ► Online (Link<sup>12</sup>)

Grades: 9-12	Course Duration: Year-long
Fulfills Chemistry Option for Graduation	
Prerequisite: Geometry	

**Course Description:**

Honors Chemistry is the study of the elements that make-up our world and how they can be combined, arranged and rearranged to modify a substance or create something new. Students will develop skills to answer many types of scientific questions.

The primary units of study include states of matter, bonding, the periodic table, atomic structure, chemical reactions and stoichiometry.

Students will demonstrate learning through laboratory work, worksheets, quizzes, and tests.

**Course Recommendation:**

This course is recommended for the highly motivated Science student. The faster pace and increased rigor prepares students for more advanced science classes. Students best suited for this class should have excelled in previous science classes.



**Board Approved Primary Resource:**

Holt Chemistry

R. Thomas Myers - Keith B Oldham - Salvatore Tocci - Holt, Rinehart and Winston – 2006 – Print

ISBN: 9780030391071

**Additional Registration Information:**

This course, in conjunction with Physics/AP Physics, meets the rigorous course waiver for the Physical Science requirement. The hybrid course is offered at LSHS only. LNHS students provide their own transportation.

## College Now Advanced Placement (AP) Chemistry 1, 2, 3 (LSHS)

**SCC-A10-00** ► In-Person (South: AP Chem 1)

**SCC-A20-00** ► In-Person (South: AP Chem 2)

**SCC-A30-00** ► In-Person (South: AP Chem 3)

Grades: 9-12	Course Duration: Three semester-long
Fulfills Chemistry Option for Graduation	
Prerequisite: Concurrent Enrollment in Algebra 2 or higher during semester two of the course	

**Course Description:**

The course College Now AP Chemistry (CN AP Chemistry) is the study of the elements that make-up our world and how they can be combined, arranged and rearranged to modify a substance or create something new. Students will develop skills to answer many types of scientific questions.

The primary units of study are the College Board's Advanced Placement (AP) Chemistry curriculum which include structure of matter, states of matter, chemical reactions, kinetics, equilibria, thermodynamics and electrochemistry. Furthermore, the course sequence contains an additional significant

laboratory component.

Students will demonstrate learning through tests, quizzes, daily assignments, laboratory exercises and laboratory assessments.

**Course Recommendation:**

This course is a college chemistry course usually completed by students in a STEM field of study.

**Board Approved Primary Resource:**

Chemistry: the Central Science AP Edition  
13th Ed

Theodore Brown – Pearson Prentice Hall – 2014 – Print

ISBN: 97801319357412

**Additional Registration Information:**

This course, in conjunction with Physics/AP Physics, meets the rigorous course waiver for the Physical Science requirement.

At LSHS, students have the following scheduling options:

- After successful completion of 2 semesters of general or honors chemistry, students may take CN AP Chemistry 2 and CN AP Chemistry 3.

A student earning a passing grade in CN AP Chemistry 2 & 3 of the course earns 9 Southwest Minnesota State University Credits from the College Now concurrent enrollment program. CN AP Chemistry 2 earns 3 lecture credits and 1 lab credit and CN AP Chemistry 3 earns 3 lecture credits and 2 lab credits.

The College Now concurrent enrollment credit is offered at LSHS only. LNHS students provide their own transportation.

## Advanced Placement (AP) Chemistry (LNHS)

SCC-A00-11 / SCC-A00-12 ► In-Person (North)

Grades: 9-12	Course Duration: Year-long
Fulfills Chemistry Option for Graduation	
Prerequisite: Concurrent Enrollment in Algebra 2 or higher	

### Course Description:

Advanced Placement Chemistry is the study of the elements that make-up our world and how they can be combined, arranged and rearranged to modify a substance or create something new. Students will develop skills to answer many types of scientific questions.

The primary units of study include structure of matter, states of matter, chemical reactions, kinetics, equilibria, thermodynamics and electrochemistry.

The students will demonstrate learning through tests, quizzes, daily assignments and laboratory exercises.

### Course Recommendation:

This course is the equivalent of a college introductory chemistry course usually completed by students in a STEM field of study. This course is designed to be a continuation of chemistry knowledge course and requires prior knowledge that is gained when 2 semesters of general or honors chemistry is taken. The College Board indicates, "Students should have successfully completed a general high school chemistry course and Algebra 2" as prerequisites to the AP Chemistry course.

### Board Approved Primary Resource:

Chemistry: The Central Science  
Theodore Brown – Pearson Prentice Hall –  
2006 – Print  
ISBN: 9780131937192

### Additional Registration Information:

This course, in conjunction with physics/AP physics, meets the rigorous course waiver for the Physical Science requirement. Summer homework may be required. The course is offered at LNHS only. LSHS students provide their own transportation.

## Physics

SCP-100-11 / SCP-100-12 ► In-Person  
SCP-100-11L / SCP-100-12L ► Online (LinK<sup>12</sup>)

Grades: 11-12	Course Duration: Year-long
Fulfills Physics Option for Graduation	
Prerequisite: Algebra 2	

### Course Description:

This course is the study of matter, energy and the fundamental laws that govern our physical world.

The primary units of study include motion, forces, momentum, energy, electricity, magnetism, waves, sound, and optics.

The students will demonstrate learning through unit tests, quizzes, projects, labs, and homework problems.

### Course Recommendation:

This course is recommended for students who excel in Science and have strong problem-solving skills.

### Board Approved Primary Resource:

Physics: Principles and Problems  
Paul W Zitzewitz - Todd George Elliott - David G Haase - Kathleen A Harper - Glencoe/  
McGraw-Hill – 2005 – Print  
ISBN: 9780078458132

### Additional Registration Information:

This course, in conjunction with Chemistry/H. Chemistry/AP Chemistry, meets the rigorous course waiver for the Physical Science requirement.

## Advanced Placement (AP) Physics 1

SCP-A00-11 / SCP-A00-12 ► In-Person  
SCP-A00-11L / SCP-A00-12L ► Online (Link<sup>12</sup>)

Grades: 9-12	Course Duration: Year-long
Fulfills Physics Option for Graduation	
Prerequisite: Algebra 2	

### Course Description:

This course provides a systematic introduction to the main principles of college physics and emphasizes the development of conceptual understanding and problem-solving ability using high-level math skills.

The primary units of study include Newtonian Mechanics (including rotational dynamics and angular momentum), Work, Energy, Power, Mechanical Waves and Sound, Circuits, and Magnetism.

The students demonstrate learning through tests, quizzes, homework, and hands-on labs.

### Course Recommendation:

It is recommended that students have a strong mathematics background and have taken Algebra 2. Students will need a quad-ruled laboratory notebook.

### Board Approved Primary Resource:

College Physics Enhanced 7th Edition  
Raymond Serway – Jerry Faughn – Chris Vuille  
– Charles Bennett – Brooks Cole – 2006 – Print  
ISBN: 9780495113690

### Additional Registration Information:

This course, in conjunction with Chemistry/H. Chemistry/AP Chemistry, meets the rigorous course waiver for the Physical Science requirement.

## Advanced Placement (AP) Physics 2

SCP-A20-11 / SCP-A20-12 ► In-Person

Grades: 9-12	Course Duration: Year-long
Fulfills Elective Requirement for Graduation	
Prerequisite: Algebra 2 and AP Physics 1 or full-year of General Physics	

### Course Description:

This course provides a systematic introduction to the main principles of college physics and emphasizes the development of conceptual understanding and problem-solving ability using high-level math skills.

The primary units of study are thermodynamics, fluid statics and dynamics, electrostatics, steady-state DC and RC circuits, magnetism and electromagnetic induction, geometric and physical optics, quantum physics, atomic physics, and nuclear physics.

The students demonstrate learning through tests, quizzes, homework, and hands-on labs.

### Course Recommendation:

It is recommended that students have a strong mathematics background and have taken Algebra 2 and either AP Physics 1 or a full year of General Physics.

### Board Approved Primary Resource:

College Physics Enhanced 7th Edition  
Raymond Serway – Jerry Faughn – Chris Vuille  
– Charles Bennett – Brooks Cole – 2006 – Print  
ISBN: 9780495113690

### Additional Registration Information:

None

## Advanced Placement (AP) Environmental Science

SCZ-A00-11 / SCZ-A00-12 ► In-Person

Grades: 10-12	Course Duration: Year-long
Fulfills Elective Requirement for Graduation	
Prerequisite: None	

### Course Description:

This course is the systematic study of earth's environment and human's place within it.

The primary units of study include earth systems and resources, the living world, population demographics, land and water use, energy resources and consumption, pollution, and issues of global environmental change.

The students will demonstrate learning through labs, inquiry-based projects, presentations, quizzes, and tests. This course includes some field investigations and field trips.

### Course Recommendation:

This course is designed to be the equivalent of a college introductory Environmental Science course.

### Board Approved Primary Resource:

Environmental Science for the AP Course  
Andrew Friedland - Rick Relyea  
Bedford, Freeman, & Worth - 2019 - Print  
ISBN: 9781319113292

### Additional Registration Information:

None

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## Anatomy & Physiology 1

SCN-100-00 ► In-Person

SCN-100-00L ► Online (Link<sup>12</sup>)

Grades: 10-12	Course Duration: Semester-long
Fulfills Elective Requirement for Graduation or can be used in Biomedical Engineering Pathway at Lakeville North	
Prerequisite: Biology (any level) or concurrently enrolled in biology	

### Course Description:

This course is the study of the structure and function of the human body.

The primary units of study include body organization and tissue, skeletal system, muscular system, respiratory system, cardiovascular system and digestive system.

The students will demonstrate learning through small and large group activities, quizzes, tests, and laboratory exams.

### Course Recommendation:

This college preparatory course is recommended for students interested in learning about the complexities of the human body and may be considering a career in a health-related or medical field.

### Board Approved Primary Resource:

Principles of Anatomy and Physiology  
Gerard J. Tortora - Bryan Derrickson - Wiley – 2006 – Print  
ISBN: 9780471689348

### Additional Registration Information:

The lab section of this course will contain multiple in-class dissections.

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## Anatomy & Physiology 2

**SCN-200-00** ► In-Person

**SCN-200-00L** ► Online (LinK<sup>12</sup>)

Grades: 10-12	Course Duration: Semester-long
Fulfills Elective Requirement for Graduation	
Prerequisite: Biology (any level) or concurrently enrolled in biology	

### Course Description:

This course is the study of the structure and function of the human body.

The primary units of study include the urinary system, endocrine system, nervous system, special senses and reproductive systems.

The students will demonstrate learning through small and large group activities, quizzes, tests, and laboratory exams.

### Course Recommendation:

This college preparatory course is recommended for students interested in learning about the complexities of the human body and may be considering a career in a health-related or medical field.

### Board Approved Primary Resource:

Principles of Anatomy and Physiology  
Gerard J. Tortora - Bryan Derrickson - Wiley –  
2006 – Print  
ISBN: 9780471689348

### Additional Registration Information:

This course can be taken as a single semester class. Semester 1 Anatomy-Physiology is not a prerequisite. The lab section of this course will contain multiple in-class dissections.

## Science of Natural Disasters

**SCZ-100-00** ► In-Person

Grades: 10-12	Course Duration: Semester-long
Fulfills Elective Requirement for Graduation	
Prerequisite: None	

### Course Description:

This course is the in depth-study of important earth science disasters that impact humans on local and global scales.

The primary units of study include tornadoes, hurricanes, droughts, floods, earthquakes, asteroid impacts, landslides, volcanic eruptions and tsunamis.

The students will demonstrate learning through tests, quizzes, labs and inquiry-based projects.

### Course Recommendation:

This course is recommended for students who are looking for an engaging, project and inquiry-based science elective course.

### Board Approved Primary Resource:

Prentice Hall Earth Science  
Edward J Tarbuck - Frederick K Lutgens -  
Pearson/Prentice Hall – 2006 – Print  
ISBN: 978013258525

### Additional Registration Information:

The order of topics may change to reflect the timely study of any natural disaster that occurs. This course does not meet the requirements for NCAA approved core courses. See your Dean for more information.

## Astronomy

**SCA-100-00** ► In-Person

**SCA-100-00L** ► Online (Link<sup>12</sup>)

Grades: 10-12	Course Duration: Semester-long
Fulfills Elective Requirement for Graduation	
Prerequisite: None	

### Course description:

This course is the study of celestial objects, space, and the physical universe as a whole.

The primary units of study include an introduction to the night sky, history of astronomy, light and telescopes, solar systems, stars and their evolution, deep space astronomy and astrobiology.

The students will demonstrate learning through small and large group activities, quizzes, tests, projects and laboratory assessments.

### Course Recommendation:

This course is recommended for students who have an interest in the field study of astronomy.

### Board Approved Primary Resource:

TBD

### Additional Registration Information:

This course will offer practice in ACT test strategies for science and two STEM projects related to Astronomy.

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## Forensics and the Science of Crime

**SCZ-120-00** ► In-Person

Grades: 11-12	Course Duration: Semester-long
Fulfills Elective Requirement for Graduation	
Prerequisite: Any biology, chemistry or physics course or instructor approval	

### Course Description:

This course provides an overview of the most commonly used scientific methods in crime scene investigation.

The primary units of study include modern DNA analysis, fiber analysis, ballistics analysis, tool marks, print impressions, digital imaging, bone and dental comparison and many more forensic methods for gathering and interpreting physical evidence.

The students will demonstrate learning through small and large group activities, quizzes, tests, and labs.

### Course Recommendation:

This course is recommended for students who have an interest in the field study of forensics.

### Board Approved Primary Resource:

Forensics Science for High School  
Barbara Deslich - John Funkhouser - Kendall/  
Hunt – 2006 – Print  
ISBN: 9780757518256

### Additional Registration Information:

None

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## Medical & Health Professions

**SCZ-130-00** ► In-Person (North)

Grades: 10-12	Course Duration: Semester-long
Fulfills Elective Requirement for Graduation	
Prerequisite: Biology (Any level)	

### Course Description:

This course is recommended for students who want the opportunity to investigate and explore a wide variety of medical and health careers.

The primary units of study include career interest assessments; medical and health career terms, descriptions, and education needed; medical terminology; personal qualities of healthcare workers; legal and ethical responsibilities; first aid techniques; job shadow.

The students will demonstrate learning through assignments, projects, demonstrations, participation, job shadow completion, and tests.

### Course Recommendation:

This course is recommended for students who are interested in learning about a variety of medical or health careers and where their interests lie.

### Board Approved Primary Resource:

Simmers DHO Health Science  
Louise Simmers - Cengage Learning  
2014 - Print  
ISBN: 978-1-13369-361-1

### Additional Registration Information:

This course requires an additional fee for First Aid certification. Successful completion of this course satisfies the Junior Opportunities Day College/Business Visit component of the Career Portfolio. This course does not meet the requirements for NCAA approved core courses. See your Dean for more information.

## Wildlife Ecology

**SCE-100-00** ► In-Person

Grades: 11-12	Course Duration: Semester-long
Fulfills Elective Requirement for Graduation	
Prerequisite: Any Biology Course	

### Course Description:

This course is the study of both local and global ecology, with an emphasis on Minnesota Wildlife. Students develop the skills needed to study wildlife in a natural ecosystem.

The primary units of study include Orienteering/Using a Compass, Ecology (aquatic and terrestrial), Wildlife Management, Invasive Species and Endangered Species, Survival Skills including winter survival, Wildlife Identification (Minnesota mammals and birds) and Animal Migration.

The students will demonstrate learning through daily activities and labs, tests, quizzes, projects, and presentations using a variety of computer presentation programs.

### Course Recommendation:

This course is recommended for students who have an interest in studying wildlife or working in wildlife professions.

### Additional Registration Information:

This course includes some field trips.

# SOCIAL STUDIES

The goal of this department is to develop within each student the necessary skills and knowledge to assume an effective role in our ever-changing society and world.

Requirements:

1 semester: Geography or AP Human Geography\* (2 semesters)

1 semester: Civics or AP United States Government & Politics\*

2 semesters: United States History or AP United States History\*

2 semesters: World History or AP Art History (LSHS)\* or AP European History\* or  
AP World History: Modern\*

1 semester: Economics OR AP Macroeconomics\* OR AP Microeconomics\*

*\*Denotes Rigorous Course Waiver*



## Civics 9

**SSC-109-00** ► In-Person

Grades: 9-12	Course Duration: Semester-long
Fulfills Civics Requirement for Graduation	
Prerequisite: None	

### Course Description:

This course is the study of the foundations of our American government and their modern applications.

The primary units of study include the early foundations of the United States, the creation of our government institutions, the rights and responsibilities of American citizenship, the American political process, and America's early stages of foreign relations.

The students will demonstrate learning through class participation, written assignments, written and oral projects, as well as tests and quizzes.

### Board Approved Primary Resource:

Civics and U.S. History  
McGraw Hill 2014  
ISBN: 978-0-02-134638-7

### Additional Registration Information:

None

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## Civics 10-12

**SSC-100-00** ► In-Person

**SSC-100-00H** ► Hybrid (South)

Grades: 10-12	Course Duration: Semester-long
Fulfills Civics Requirement for Graduation	
Prerequisite: None	

### Course Description:

This course is the study of the foundations of our American government and their modern applications.

The primary units of study include the early foundations of the United States, the creation of our government institutions, the rights and responsibilities of American citizenship, the American political process, and America's early stages of foreign relations.

The students will demonstrate learning through class participation, written assignments, written and oral projects, as well as tests and quizzes.

### Board Approved Primary Resource:

Civics and U.S. History  
McGraw Hill 2014  
ISBN: 978-0-02-134638-7

### Additional Registration Information:

None

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## Geography

**SSG-100-00** ► In-Person

**SSG-100-00L** ► Online (LinK<sup>12</sup>)

Grades: 9-12	Course Duration: Semester-long
Fulfills Geography Requirement for Graduation	
Prerequisite: None	

### Course Description:

This course is the study of analyzing geographic data to understand patterns of population, the development and spread of culture, rural and urban development, and human-environmental interaction. Students will use geographical skills they learn to examine challenges present in the world in conjunction with critical thinking to generate problem solving ideas.

The primary units of studies incorporate map skills, geospatial technologies, demographics, land use and human-environmental interaction and impact in different regions of the world.

The students will demonstrate learning through class participation, written assignments, student created projects, as well as tests and quizzes.

### Board Approved Primary Resource:

Geography Alive! Regions and People  
Teachers Curriculum Institute  
ISBN: 978-1-934534-68-7

### Additional Registration Information:

None

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## United States History

**SSH-100-11 / SSH-100-12** ► In-Person

**SSH-100-11L / SSH-100-12L** ► Online (LinK<sup>12</sup>)

Grades: 10-12	Course Duration: Year-long
Fulfills U.S. History Requirement for Graduation	
Prerequisite: None	

### Course Description:

This course is the study of the history of the United States from the beginning to present times.

The primary units of study include westward expansion, the Civil War, industrial growth, immigration, the development of the U.S. as a global player, the World Wars, the Cold War, Civil Rights movement, and the modern era.

The students will demonstrate their learning by tests, projects, presentations, and a comprehensive semester final.

### Board Approved Primary Resource:

America: Pathways To Present (Survey)  
Andrew Cayton - Pearson Prentice Hall – 2004  
– Print  
ISBN 9780131815452

### Additional Registration Information:

None

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## Advanced Placement (AP) United States History

**SSH-A00-11 / SSH-A00-12** ► In-Person  
**SSH-A00-11L / SSH-A00-12L** ► Online (LinK<sup>12</sup>)

Grades: 10-12	Course Duration: Year-long
Fulfills U.S. History Requirement for Graduation	
Prerequisite: None	

### Course Description:

This course is the study of United States history.

The primary units of study include the founding, building, and testing of a new nation, forging an industrial society, struggling for justice at home and abroad, and making modern America.

The students will demonstrate learning through multiple-choice, Long Essay Questions, Data Based Questions, and Short Answer Questions.

### Board Approved Primary Resource:

The American Pageant: A History of the American People  
(16th Edition at South)  
(17th Edition at North)  
Kennedy & Cohen, Cengage Learning 2016, Print  
ISBN: 978-1-337-09016-2

### Additional Registration Information:

This course meets the Rigorous Course Waiver for United States History course.

## World History

**SSH-120-11 / SSH-120-12** ► In-Person  
**SSH-120-11V / SSH-120-12V** ► Virtual (North)  
**SSH-120-11L / SSH-120-12L** ► Online (LinK<sup>12</sup>)

Grades: 10-12	Course Duration: Year-long
Fulfills World History Requirement for Graduation	
Prerequisite: None	

### Course Description:

This course is the study of history from the beginnings of civilization to the present.

The primary units of study include ancient civilizations, the Classical World, the world in transition, the ages of exploration and expansion, and the modern era.

The students will demonstrate their learning by tests, projects, presentations, and a comprehensive semester final.

### Board Approved Primary Resource:

World History and Geography  
McGraw-Hill Education, 2018, Print  
ISBN: 978-0-07-668386-4

### Additional Registration Information:

None

## Advanced Placement (AP) Art History

SSH-A20-11 / SSH-A20-12 ► In-Person (South)

Grades: 10-12	Course Duration: Year-long
Fulfills World History Requirement or Elective Requirement for Graduation	
Prerequisite: None	

### Course description:

This course is the study of 250 works of art and history from prehistoric cave paintings through the postmodern abstract art movement of the 20th Century.

The primary units of study include the works of art of world civilizations from prehistoric to modern times and the cross currents between European and non-European artistic traditions.

The students will demonstrate learning through presentations, group and individual projects, image cards, tests, quizzes and in-class discussion.

### Board Approved Primary Resource:

Gardner's Art Through the Ages  
Helen Gardner - Fred S Kleiner - Christin J.Mamiya - Thomson/Wadsworth – 2005 – Print  
ISBN: 9780155050907

### Additional Registration Information:

This course meets the Rigorous Course Waiver for the World History course. This course does not meet the requirements for NCAA approved core courses. See your dean for more information. The course is offered at LSHS only. LNHS students provide their own transportation.

## Advanced Placement (AP) European History

SSH-A30-11 / SSH-A30-12 ► In-Person  
SSH-A30-11L / SSH-A30-12L ► Online (LinK<sup>12</sup>)

Grades: 10-12	Course Duration: Year-long
Fulfills World History Requirement for Graduation	
Prerequisite: None	

### Course Description:

This course is the study of major world events from 1450 to the present from a Euro-centric viewpoint.

The primary units of study include the Renaissance and Reformation, Absolutism, Scientific Revolution, consolidation of the large nation-states, Imperialism, the world wars, Marxism and the communist world, the Cold War and superpowers, and the collapse of Communism.

The students will demonstrate learning through unit multiple-choice tests, and a variety of essays including Long Essay Questions, Document Based Essay Questions, and Short Answer Questions.

### Board Approved Primary Resource:

Lakeville North Resource:  
A History of Western Society- 13th Edition  
John McKay- Bennett-Hill- John Buckler-Clare Haru Crowston-Merry E. Wiesner-Hanks- Joe Perry-2011-Print  
ISBN-13:9780-0-312-64058-3

Lakeville South Resource:  
A History of Western Society- 10th Edition  
John McKay- Bennett-Hill- John Buckler-Clare Haru Crowston-Merry E. Wiesner-Hanks- Joe Perry-2011-Print  
ISBN-13:9780-0-312-64058-3

### Additional Registration Information:

This course meets the Rigorous Course Waiver for the World History course.

## Advanced Placement (AP) Human Geography

**SSG-A00-11 / SSG-A00-12** ► In-Person  
**SSG-A00-11L / SSG-A00-12L** ► Online (LinK<sup>12</sup>)

Grades: 9-12	Course Duration: Year-long
Fulfills Geography Requirement for Graduation	
Prerequisite: None	

### Course Description:

This course focuses on analyzing the geographic information and patterns of population, culture, rural and urban development, and globalization.

The primary units of study include geography as a discipline, population, cultural geography, political geography, industrial land use, rural land use, urban land use and globalization.

The students will demonstrate learning through unit tests, quizzes, written and oral reports, maps, diagrams and class discussion.

### Board Approved Primary Resource:

The Cultural Landscape AP Edition  
 James M. Rubenstein, 11th Edition  
 ISBN: 10:0-13-292658-X

### Additional Registration Information:

This course meets the Rigorous Course Waiver for the Geography course.

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## Advanced Placement World History: Modern

**SSH-A40-11 / SSH-A40-12** ► In-Person  
**SSH-A40-11L / SSH-A40-12L** ► Online (LinK<sup>12</sup>)

Grades: 10-12	Course Duration: Year-long
Fulfills World History Requirement for Graduation	
Prerequisite: None	

### Course Description:

This course is the study of world history from 1200CE to the present.

The primary units of study include early river civilizations, classical civilizations, the rise and spread of major world religions, hemispheric exchange, imperialism, colonialism, both world wars, and globalization.

The students will demonstrate learning through chapter tests, essays, and semester final exams.

### Board Approved Primary Resource:

Traditions & Encounters: A Global Perspective on the Past 4th Ed. (North)  
 Bentley and Ziegler - McGraw-Hill College - 2007 – Print  
 ISBN: 9780073330679

### Additional Registration Information:

This course meets the Rigorous Course Waiver for the World History course.

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## Introduction to Economics

**SSE-100-00** ▶ In-Person  
**SSE-100-00H** ▶ Hybrid  
**SSE-100-00V** ▶ Virtual  
**SSE-100-00L** ▶ Online (LinK<sup>12</sup>)

Grades: 10-12	Course Duration: Semester-long
Fulfills Economics Requirement for Graduation	
Prerequisite: None	

### Course Description:

This course is the study of basic economic concepts: how markets work and the relationship between money, banking, finance and measurements of economic performance. In addition, the course will examine our government's role in the economy while also examining the complexities of a global economy.

The primary units of study include personal finance, the study of markets, the dynamics of money, banking and finance, and the global economy.

The students will demonstrate learning through class participation, written assignments, written and oral projects, as well as tests and quizzes.

### Board Approved Primary Resource:

Economics: Principles in Action  
 Arthur O'Sullivan – Steven Sheffrin - Prentice Hall – 2002 – Print  
 ISBN: 9780-30630858

### Additional Registration Information:

This class is ideally suited for seniors, but sophomores and juniors who have a strong interest in economics may also register for this class.

## Advanced Placement (AP) Macroeconomics

**SSE-A00-00** ▶ In-Person  
**SSE-A00-00L** ▶ Online (LinK<sup>12</sup>)

Grades: 10-12	Course Duration: Semester-long
Fulfills Economics Requirement for Graduation	
Prerequisite: None	

### Course Description:

This course is the study of the principles of economics that apply to an economic system as a whole while placing particular emphasis on the study of national income and price determination.

The primary units of study include focus on performance measures, economic growth, and international economics. A special emphasis is placed on the analysis of current economic problems and the presentation of several different economic schools of thought.

The students will demonstrate learning through class participation, written assignments, written and oral projects, as well as written tests and quizzes.

### Board Approved Primary Resource:

Macroeconomics: Principles, Problems, and Policies  
 Campbell R. McConnell - Stanley L. Brue – Glencoe/McGraw-Hill – 2006 – Print  
 ISBN: 9780073273082

### Additional Registration Information:

This course meets the Rigorous Course Waiver for Economics.

## Advanced Placement (AP) Microeconomics

**SSE-A20-00** ► In-Person  
**SSE-A20-00L** ► Online (LinK<sup>12</sup>)

Grades: 10-12	Course Duration: Semester-long
Fulfills Economics Requirement for Graduation	
Prerequisite: None	

### Course description:

This course is the study of the principles of economics that apply to the functions of individual decision makers, both consumers and producers, within the economic system.

The primary units of study include the nature and functions of product markets including the study of factor markets and of the role of government in promoting greater efficiency and equity in the economy.

The students will demonstrate learning through class participation, written assignments, written and oral projects, as well as written tests and quizzes.

### Course Recommendation:

This course should be taken by students wishing to pursue a postsecondary degree in business or economics.

### Board Approved Primary Resource:

Principles of Microeconomics  
 N. Gregory. Mankiw - South-Western Cengage Learning – 2009 – Print  
 ISBN: 9780324589986

### Additional Registration Information:

Students will be expected to complete readings prior to the start of the course and will be assessed at the start of the course. This class will prepare students for the AP exam given in the spring. This course meets the Rigorous Course Waiver for Economics.

## Advanced Placement (AP) Psychology

**SSP-A00-11 / SSP-A00-12** ► In-Person  
**SSP-A00-11E / SSP-A00-12E** ► Early Bird (South)  
**SSP-A00-11L / SSP-A00-12L** ► Online (LinK<sup>12</sup>)

Grades: 10-12	Course Duration: Year-long
Fulfills Elective Requirement for Graduation	
Prerequisite: None	

### Course Description:

This course is the scientific study of the mental processes of human behavior; and the ethics and methods psychologists use in their science and practice.

The primary units of study include scientific foundations of psychology; biology and behavior; sensation and perception; learning; cognitive psychology; developmental psychology; motivation, emotion, and personality; clinical psychology; and social psychology.

The students will demonstrate learning through tests, quizzes, group work, experiments, individual projects and in-class discussion.

### Board Approved Primary Resource:

Myers' Psychology for AP  
 David G. Myers - Worth Publishing Co. – 2011  
 - Print  
 ISBN: 9781429244367

### Additional Registration Information:

None



## Advanced Placement (AP) United States Government and Politics

**SSV-A00-00** ► In-Person  
**SSV-A00-00L** ► Online (LinK<sup>12</sup>)

Grades: 9-12	Course Duration: Semester-long
Fulfills Civics Requirement for Graduation	
Prerequisite: None	

### Course Description:

This course is the study of the forces that helped to shape the American government “experiment” while evaluating both past and present American governmental leaders, using the Constitution and the Declaration of Independence as guidelines.

The primary units of study include a focus on the Constitution, the political parties, the media, the three branches of government and the bureaucracy.

The students will demonstrate learning by tests, quizzes, written and oral reports and in-class discussion.

### Board Approved Primary Resource:

The Challenge of Democracy  
Kenneth Janda - Jeffrey M. Berry - Jerry Goldman - Kevin W. Hula - Houghton Mifflin Co. – 2004 – Print  
ISBN: 9780618312078

### Additional Registration Information:

This course meets the Rigorous Course Waiver for the Civics course.

## Advanced Placement (AP) Comparative Government and Politics

**SSV-A20-00** ► In-Person  
**SSV-A20-00H** ► Hybrid (North)

Grades: 11-12	Course Duration: Semester-long
Fulfills Elective Requirement for Graduation	
Prerequisite: None	

### Course Description:

This course is the study of the political analysis of six countries: China, Great Britain, Iran, Mexico, Nigeria, and Russia. It uses comparisons of political and economic institutions and policies of these six different countries to provide both a global perspective and opportunity to apply concepts to real world situations. Students identify problems and evaluate alternative policy solutions and their consequences.

The primary units of study include: authority and power; political and economic change; and citizen, society and the state.

The students will demonstrate learning by participating in class discussions and debates and by multiple choice and essay tests.

### Board Approved Primary Resource:

AP Comparative Government and Politics: An Essential Coursebook. 6th Edition.  
WoodYard Publications, © 2013. by Ethel Wood Print ISBN: 9780983176695

### Additional Registration Information:

The hybrid course is offered at LNHS only. LSHS students provide their own transportation.



## Criminal Justice

**SSL-100-00** ► In-Person  
**SSL-100-00H** ► Hybrid (South)  
**SSL-100-00L** ► Online (LinK<sup>12</sup>)

Grades: 10-12	Course Duration: Semester-long
Fulfills Elective Requirement for Graduation	
Prerequisite: None	

### Course Description:

This course is the study of civil, criminal and federal law.

The primary units of study include civil law, and types of lawsuits, criminal law against people and property, federal criminal law, and constitutional law including the United State Supreme Court and famous case trials.

The students will demonstrate learning through tests, projects and presentations.

### Course Recommendation:

This course is recommended for students who are interested in law related careers.

### Board Approved Primary Resource:

Street Law 6th Ed.  
 Lee Arbetman – Edward O'Brien - Glencoe/  
 McGraw-Hill – 2001 – Print  
 ISBN: 9780314140777

### Additional Registration Information:

None

## Psychology

**SSP-100-00** ► In-Person  
**SSP-100-00H** ► Hybrid (South)  
**SSP-100-00L** ► Online (LinK<sup>12</sup>)

Grades: 10-12	Course Duration: Semester-long
Fulfills Elective Requirement for Graduation	
Prerequisite: None	

### Course description:

This course is the study of behavior and mental processes. This course is designed to introduce the student to a survey of various topics in psychology from neuroscience to psychological disorders.

The primary units of study include the brain, processes of learning, personality theory, states of consciousness and abnormal behavior.

The students will demonstrate learning through unit tests, quizzes, written and oral reports, and class discussion. Each student will be responsible for a research paper involving a case study.

### Board Approved Primary Resource:

Psychology: Principles in Practice  
 Spencer A Rathus - Holt, Rinehart & Winston –  
 1999 – Print  
 ISBN: 9780030154492

### Additional Registration Information:

Students taking AP Psychology should not register for this course.

## History of Sports

**SSZ-100-00** ► In-Person

**SSZ-100-00H** ► Hybrid (South)

Grades: 10-12	Course Duration: Semester-long
Fulfills Elective Requirement for Graduation	
Prerequisite: None	

### Course Description:

This course is the study of social, economic, cultural and political forces that have shaped the development of sports in the United States throughout history. Students will further investigate the role of commercialization, gender discrimination, racial bias, and class economics in relation to sports.

The primary units of study include sporting in early America, organized sports (boxing, baseball and football), race and sports, women and sports, college sports in the modern era, Olympic sports, television and pay for play.

The students will demonstrate learning through analysis of primary and secondary sources, class discussion, tests, projects and presentations.

### Course Recommendation:

This course is recommended for students who are interested in learning history in connection with the popular cultural phenomenon of sports in America or those interested in a potential sports studies or sports management degree in college.

### Board Approved Primary Resource:

Sports in American Life: A History, 3rd Edition  
Richard O. Davies – John Wiley and Sons, Inc  
– 2017-Print  
ISBN: 9781118912379

### Additional Registration Information:

This course does not meet the requirements for NCAA approved core courses. See your Dean for more information.

## Music of Social Justice

**SSZ-120-00** ► In-Person

**SSZ-120-00H** ► Hybrid

Grades: 9-12	Course Duration: Semester-long
Fulfills Elective Requirement for Graduation	
Prerequisite: None	

### Course description:

This course is the study of the integral role that music has played in major social justice movements in history. This class will explore how music has been used to promote awareness and encourage activism throughout history. Music's role in a variety of social justice movements will be examined.

The primary units of study include: Women's Suffrage, Unionization, Civil Rights, Anti-war, Anti-Apartheid, Environmentalism, Black Power, Indigenous Peoples Movement, Gay Rights, MeToo and #BlackLivesMatter.

Throughout the course, a variety of musical genres will be explored including Appellation Hill Music, Country, Jazz, Folk, Rock and Roll, and Rap and a the broad range of musical personalities from the likes of early 20th century Billie Holliday to contemporary Kendrick Lamar.

The students will demonstrate learning through quizzes, unit tests, written and oral projects on various social movements and musicians.

### Board Approved Primary Resource:

What's That Sound? An Introduction to Rock and Its History  
John Covach - W. W. Norton & Company –  
2006 - Print  
ISBN: 978-0-393-62416-8

### Additional Registration Information:

This course does not meet the requirements for NCAA approved core courses. See your Dean for more information.

## Sociology

**SSS-100-00** ► In-Person

**SSS-100-00H** ► Hybrid (South)

**SSS-100-00L** ► Online (LInK12)

Grades: 10-12	Course Duration: Semester-long
Fulfills Elective Requirement for Graduation	
Prerequisite: None	

### Course Description:

This course is an introductory study of basic sociological concepts: humans and their behavior group. In addition, this course will seek to examine societal concepts (values, traditions, roles) that influence the interaction among individuals, groups, and institutions, as well as to understand how societal concepts and institutions develop and change over time.

The primary units of study include cross-cultural studies of family, marriage, divorce, death, the right to die, effects of death on people, deviant subculture, race, and ethnicity.

Students will demonstrate learning through tests, quizzes, plus written and oral projects.

### Board Approved Primary Resource:

None

### Additional Registration Information:

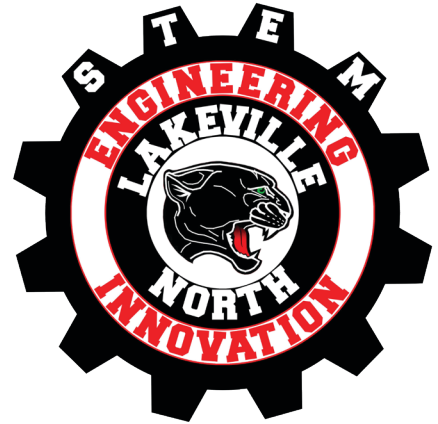
None

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# STEM & MANUFACTURING:

## STEM ENGINEERING INNOVATION (LNHS)

STEM Engineering Innovation at Lakeville North High School offers unique courses in Science, Technology, Engineering and Mathematics. Students will learn the fundamentals of manufacturing, engineering, design and automobile technology. Students will start in an introductory course and advance their way through higher-skilled courses, culminating in a capstone project during their senior year that reflects all the skills they've learned.



### Mission Statement

Lakeville North High School Engineering Innovation Pathway provides students opportunities to explore interests, skill sets, and career options through a variety of Science, Technology, Engineering and Math (STEM) experiences. Courses are grounded in collaboration and real-world experiences that prepare students for career certification, 2 year and 4 year post-secondary options. Students will learn to collaborate using the engineering design process while utilizing a large variety of new technological equipment.

### Different Pathways

STEM Engineering Innovation at Lakeville North offers three different pathways with specific courses for each. The three pathways are:

#### Engineering and Technology Innovation Pathway

Explore a multitude of high tech STEM activities utilizing state of the art equipment in the new North ENGINEERING INNOVATION CENTER. Students will be challenged with problem solving and hands-on activities to create unique and fun projects. Career opportunities will be explored and students will get to try out a variety of processes to see if engineering is the right career path for them.

#### Manufacturing and Welding Pathway

Explore a multitude of high tech STEM activities utilizing state of the art equipment in the newly remodeled North Manufacturing Metals & Welding Lab. Students will be challenged with problem solving and hands-on activities to create unique and fun projects. Career opportunities will be explored and students will get to try out a variety of processes to see if manufacturing or welding is the right career path for them. Level 4 welding students will have the opportunity to earn Concurrent Enrollment for DCTC and get free credit for the Welding 1 class at the college.

#### Architecture and Computer Aided Design (CAD) Pathway

Explore a multitude of high tech STEM activities utilizing state of the art equipment in the new North ENGINEERING INNOVATION CENTER. Students will be challenged with problem solving and hands-on activities to create unique and fun projects. Career opportunities will be explored and students will get to try out a variety of processes to see if CAD or Architecture is the right career path for them.



# Engineering Innovation

The Lakeville North High School Engineering Innovation Pathway provides students opportunities to explore interests, skill sets, and career options through a variety of Science, Technology, Engineering and Math (STEM) experiences. Courses are grounded in collaboration and real-world experiences that prepare students for career certification, 2-year, and 4-year post-secondary options. Students will learn to collaborate using the engineering design process while utilizing a wide variety of technological equipment.

## Pathways Towards College & Career Prep



### Engineering & Technology Innovation



### Manufacturing & Welding



### Architecture & Computer Aided Design

Introduction	<ul style="list-style-type: none"> <li>• CAD 1</li> <li>• Engineering &amp; Innovation 1</li> <li>• Robotics</li> </ul>	<ul style="list-style-type: none"> <li>• Manufacturing, Metals &amp; Welding 1</li> <li>• Auto Technology 1</li> </ul>	<ul style="list-style-type: none"> <li>• CAD 1</li> <li>• Architecture 1</li> </ul>
Intermediate	<ul style="list-style-type: none"> <li>• CAD 2</li> <li>• Engineering &amp; Innovation 2</li> </ul>	<ul style="list-style-type: none"> <li>• Manufacturing, Metals &amp; Welding 2</li> <li>• Auto Technology 2</li> </ul>	<ul style="list-style-type: none"> <li>• CAD 2</li> <li>• Architecture 2</li> <li>• Building Construction &amp; Applied Architecture</li> </ul>
Advanced	<ul style="list-style-type: none"> <li>• Engineering &amp; Innovation 2</li> <li>• Engineering &amp; Innovation 3</li> <li>• Engineering &amp; Innovation 4</li> </ul>	<ul style="list-style-type: none"> <li>• Manufacturing, Metals &amp; Welding 3</li> <li>• Manufacturing, Metals &amp; Welding 4 (DCTC Concurrent Enrollment Credit)</li> </ul>	<ul style="list-style-type: none"> <li>• Architecture 3</li> </ul>

## CAPSTONE PROJECTS

## Occupations

<b>MECHANICAL ENGINEER</b>  <b>MEDIAN SALARY</b> <b>\$82,110</b>  <b>PROJECTED GROWTH</b> Faster Than Average  <b>EDUCATION</b> Bachelor's Degree in Mechanical Engineering	<b>CIVIL ENGINEER</b>  <b>MEDIAN SALARY</b> <b>\$88,750</b>  <b>PROJECTED GROWTH</b> Much Faster Than Average  <b>EDUCATION</b> Bachelor's Degree in Civil Engineering	<b>MANUFACTURING ENGINEERING TECHNOLOGIST</b>  <b>MEDIAN SALARY</b> <b>\$56,770</b>  <b>PROJECTED GROWTH</b> Slower Than Average  <b>EDUCATION</b> Associate's Degree in Manufacturing Engineering Technology	<b>CUTTER, SOLDERER, BRAZER, WELDER</b>  <b>MEDIAN SALARY</b> <b>\$44,040</b>  <b>PROJECTED GROWTH</b> Faster Than Average  <b>EDUCATION</b> On-The-Job Training	<b>DRAFTER</b>  <b>MEDIAN SALARY</b> <b>\$53,910</b>  <b>PROJECTED GROWTH</b> Faster Than Average  <b>EDUCATION</b> Associate's Degree in Drafting
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Source: Minnesota Career Information System



## Engineering and Technology Innovation Pathway

### Engineering & Innovation 1      Engineering & Innovation 2

**STE-100-00** ► In-Person (North)

Grades: 9-12	Course Duration: Semester-long
Fulfills Elective Requirement for Graduation	
Prerequisite: None	

#### Course Description:

This course is the study of the fundamentals of engineering, manufacturing and design technology. Students will experience problem solving with engineering and design, product fabrication and manufacturing processes.

The primary units of study include engineering design process, fabrication, 3-D printing, vinyl sticker and t-shirt design, CNC plasma cutting, CNC wood routing, laser engraving and other technologies used in today's STEM careers.

Students will demonstrate learning through assessments on safety and machine operation and will submit projects for grade.

#### Course Recommendation:

This course is recommended for students who wish to gain skills in STEM and Engineering careers. It is recommended to students who prefer hands-on, collaborative learning and want to learn about applying knowledge to real-world projects.

#### Board Approved Primary Resource:

None

#### Additional Registration Information:

Students may purchase higher quality materials than offered as part of the course. The course is offered at LNHS only. LSHS students provide their own transportation.

**STE-200-00** ► In-Person (North)

Grades: 9-12	Course Duration: Semester-long
Fulfills Elective Requirement for Graduation	
Prerequisite: Engineering & Innovation 1	

#### Course Description:

This course is the advanced study of the fundamentals of manufacturing, engineering and design technology. Students will experience problem solving with engineering and design, product fabrication and manufacturing processes.

The primary units of study include engineering design process, fabrication, 3-D printing, vinyl sticker and t-shirt design, CNC plasma cutting, CNC wood routing, laser engraving, waterjet cutting and other technologies used in today's manufacturing.

Students will demonstrate learning through assessments on safety, machine operation and be required to submit projects for grade using the machines outlined above.

#### Course Recommendation:

This course is recommended for students who wish to gain advanced understanding of manufacturing and engineering careers. This course is also recommended to students who prefer hands-on, collaborative learning and who want to learn more about applying their knowledge to real-world projects.

#### Board Approved Primary Resource:

None

#### Additional Registration Information:

A fee will be assessed for any projects taken home. Students may purchase higher quality materials than offered as part of the course. LSHS students provide their own transportation.





## Engineering and Technology Innovation Pathway

### Engineering & Innovation 3 Engineering & Innovation 4

**STE-300-00** ► In-Person (North)

Grades: 10-12	Course Duration: Semester-long
Fulfills Elective Requirement for Graduation	
Prerequisite: Engineering & Innovation 2	

#### Course Description:

This course is the advanced study of applying previous learned skills in manufacturing, engineering and design technology and creating one or more independent project(s).

The primary units of study may include engineering design process, fabrication, 3-D printing, vinyl sticker and t-shirt design, CNC plasma cutting, CNC wood routing, laser engraving, waterjet cutting and other technologies used in today's manufacturing.

Students will demonstrate learning through the evaluation of their independent projects.

#### Course Recommendation:

This course is recommended for students who are able to independently develop engineering and manufacturing projects. This course is also recommended to students who prefer hands-on, collaborative learning and who want to learn more about applying their knowledge to real-world projects.

#### Board Approved Primary Resource:

None

#### Additional Registration Information:

A fee may be assessed for any projects taken home. Students may purchase higher quality materials than offered as part of the course. The course is offered at LNHS. LSHS students provide their own transportation.

**STE-400-00** ► In-Person (North)

Grades: 10-12	Course Duration: Semester-long
Fulfills Elective Requirement for Graduation	
Prerequisite: Engineering & Innovation 3	

#### Course Description:

This course is the advanced study of applying previous learned skills in manufacturing, engineering and design technology and creating one or more independent project(s).

The primary units of study may include engineering design process, fabrication, 3-D printing, vinyl sticker and t-shirt design, CNC plasma cutting, CNC wood routing, laser engraving, waterjet cutting and other technologies used in today's manufacturing.

Students will demonstrate learning through the evaluation of their independent projects.

#### Course Recommendation:

This course is recommended for students who are able to independently develop engineering and manufacturing projects. This course is also recommended to students who prefer hands-on, collaborative learning and who want to learn more about applying their knowledge to real-world projects.

#### Board Approved Primary Resource:

None

#### Additional Registration Information:

A fee may be assessed for any projects taken home. Students may purchase higher quality materials than offered as part of the course. The course is offered at LNHS. LSHS students provide their own transportation.



## Engineering and Technology Innovation Pathway

### Computer-Aided Design & Engineering 1

**STE-120-00** ► In-Person (North)

Grades: 9-12	Course Duration: Semester-long
Fulfills Elective Requirement for Graduation	
Prerequisite: None	

#### Course Description:

This course is the study of engineering through problem solving related to design. Computer-Aided Design (CAD) software provides the foundation for modeling team projects and individual solutions to design briefs.

The primary units of study include CAD commands and functions, applied geometry, international standards of representation, problem solving models and the engineering design process.

Students will demonstrate learning through the application of basic skills with Creo/Pro CAD software, read and create technical drawings and sketches, and apply design and problem-solving models while working individually and in teams to build functional models and mechanisms.

#### Course Recommendation:

This course is recommended for students interested in careers related to science, technology and engineering.

#### Board Approved Primary Resources:

Basic Technical Drawing  
Henry Cecil Spencer - John T Dygdon - James E Novak - Glencoe/McGraw-Hill – 2004 – Print  
ISBN: 9780078457487

Mechanical Drawing: Board & CAD Techniques

Jay D Helsel - Glencoe/McGraw-Hill – 2003 – Print

ISBN: 9780078251009

#### Additional Registration Information:

Demonstrations as well as student “hands on learning” will be provided regarding the design and manufacturing of product and or products. The course is offered at LNHS. LSHS students provide their own transportation.

### Computer-Aided Design & Engineering 2

**STE-220-00** ► In-Person (North)

Grades: 9-12	Course Duration: Semester-long
Fulfills Elective Requirement for Graduation	
Prerequisite: Computer-Aided Design & Engineering 1	

#### Course Description:

This course is the continuous study of engineering through problem solving related to design.

The primary units of study include CAD commands and functions, applied geometry, international standards of representation, problem solving models and the engineering design process, mechanisms and kinematics.

Students will demonstrate learning through projects with three dimensional computer-aided design (CAD) software, perform kinematic analysis of CAD models, create animations and renderings of designs, and continue to apply design and problem solving models





## Engineering and Technology Innovation Pathway

while working individually and in teams to create structures and programmable remotely controlled mechanisms.

### Course Recommendation:

This course is recommended for students interested in careers related to science, technology and engineering.

### Board Approved Primary Resources:

Basic Technical Drawing  
Henry Cecil Spencer - John T Dygdon - James E Novak - Glencoe/McGraw-Hill – 2004 – Print  
ISBN: 9780078457487

Mechanical Drawing: Board & CAD Techniques  
Jay D Helsel - Glencoe/McGraw-Hill – 2003 – Print  
ISBN: 9780078251009

### Additional Registration Information:

Demonstrations as well as student “hands on learning” will be provided regarding the design and manufacturing of product and or products. The course is offered at LNHS. LSHS students provide their own transportation.

## Robotics

**STD-160-00** ► In-Person

Grades: 10-12	Course Duration: Semester-long
Fulfills Elective Requirement for Graduation	
Prerequisite: None	

### Course Description:

This course is the study of the use, programming and applications of robotics in a problem solving environment.

The primary units of study include robot commands and functions, problem solving models and the engineering design process.

Students will demonstrate learning through the designing, building, programming and testing of a robot. Students will work in teams to build a Tetrix robot specifically designed to meet a specific challenge. Problem solving skills will need to be developed, projects will need to be tested and reengineered to meet the required outcomes.

### Course Recommendation:

This course is recommended for students interested in careers related to robotics, STEM, and automation.

### Board Approved Primary Resources:

TBD

### Additional Registration Information:

None



## Manufacturing and Welding Pathway

### Manufacturing, Metals & Welding 1

**STE-140-00** ► In-Person (North)

Grades: 9-12	Course Duration: Semester-long
Fulfills Elective Requirement for Graduation	
Prerequisite: None	

#### Course Description:

This course is the study of welding, manufacturing, engineering & design processes along with their related technologies.

The primary units of study include Problem Solving, Industrial Design, MIG, TIG and Plastic welding as well as CNC Plasma & Waterjet cutting.

The students will demonstrate learning through problem solving, safety, hands on projects, custom designs & fabrication with the Welding, Plasma and Waterjet processes. Multiple projects designed by the students will be fabricated to take home.

#### Course Recommendation:

This course is recommended for students who love hands-on learning and wish to explore career fields in Manufacturing, Engineering & Welding Technology.

#### Board Approved Primary Resource:

None

#### Additional Registration Information:

The course is offered at LNHS only. LSHS students must provide their own transportation.

### Manufacturing, Metals & Welding 2

**STE-240-00** ► In-Person (North)

Grades: 9-12	Course Duration: Semester-long
Fulfills Elective Requirement for Graduation	
Prerequisite: Manufacturing, Metals & Welding 1	

#### Course Description:

This course is the advanced study of welding, manufacturing, engineering & design processes along with their related technologies.

The primary units of study include Problem Solving, Industrial Design, MIG, TIG and Plastic welding as well as CNC Plasma & Waterjet cutting.

The students will demonstrate learning through problem solving, safety, hands on projects, custom designs & fabrication with the Welding, Plasma and Waterjet processes. Multiple projects designed by the students will be fabricated to take home.

#### Course Recommendation:

This course is recommended for students who love hands-on learning and wish to explore career fields in Manufacturing, Engineering & Welding Technology.

#### Board Approved Primary Resource:

None

#### Additional Registration Information:

Students may purchase higher quality materials than offered as part of the course. The course is offered at LNHS only. LSHS students must provide their own transportation.



## Manufacturing and Welding Pathway

### Manufacturing, Metals & Welding 3

**STE-340-00** ► In-Person (North)

Grades: 10-12	Course Duration: Semester-long
Fulfills Elective Requirement for Graduation	
Prerequisite: Manufacturing, Metals & Welding 2	

#### Course Description:

This course is the study of all available welding and manufacturing processes and their related technologies applied to create one or more independent project(s).

The primary units of study include Mig, TIG and Plastic welding as well as Plasma & Waterjet cutting.

The students will demonstrate learning through the evaluation of their project(s) and course participation as well as the opportunity to work with local businesses.

#### Course Recommendation:

This course is recommended for students who wish to explore career and post secondary opportunities and eventually enter a career in the Manufacturing, Engineering & Welding industry.

#### Board Approved Primary Resource:

None

#### Additional Registration Information:

The course is offered at LNHS only. LSHS students must provide their own transportation. Students who enrolled and completed Manufacturing, Metals and Welding 3 can also take 4 as a Capstone course. Students have an opportunity to develop industry knowledge through a paid work experience coordinated by the classroom teacher.

### Manufacturing, Metals & Welding 4

**STE-440-00** ► In-Person (North)

Grades: 10-12	Course Duration: Semester-long
Fulfills Elective Requirement for Graduation	
Prerequisite: Manufacturing, Metals & Welding 3	

#### Course Description:

This course is the study of all available welding and manufacturing processes and their related technologies applied to create one or more independent project(s).

The primary units of study include Mig, TIG and Plastic welding as well as Plasma & Waterjet cutting.

The students will demonstrate learning through the evaluation of their project(s) and course participation as well as the opportunity to work with local businesses.

#### Course Recommendation:

This course is recommended for students who wish to explore career and post secondary opportunities and eventually enter a career in the Manufacturing, Engineering & Welding industry.

#### Board Approved Primary Resource:

None

#### Additional Registration Information:

The course is offered at LNHS only. LSHS students must provide their own transportation. Students who enrolled and completed Manufacturing, Metals and Welding 3 can also take 4 as a Capstone course. Students have an opportunity to develop industry knowledge through a paid work experience coordinated by the classroom teacher.



## Manufacturing and Welding Pathway

### Auto Technology 1

**STD-150-00** ► In-Person (North)

Grades: 10-12	Course Duration: Semester-long
Fulfills Elective Requirement for Graduation	
Prerequisite: None	

#### Course Description:

This course is the study of the various parts and general maintenance on small engines as well as working up to basic vehicle maintenance. Lakeville North does have a car lift and tire changer that will be available for some of the class activities.

The primary units of study will be 2 and 4 cycle engines, Introduction to how cars work, Buying an automobile, Automotive expenses, Repair facilities, Safety around the automobile, Tools and equipment, Auto care and cleaning, Fluid level checks, Electrical systems, Lubrication systems, Fuel systems, Cooling and climate control, Ignition system, Suspension~steering and tires, Braking system, Drivetrain, Exhaust and emission systems, Alternative Fuels and designs, Automotive accessories, & Common problems and roadside Emergencies.

The students will demonstrate learning through oral and written assignments as well as teardown and reassembly of a small engine. Students will have access to the shop car lift for general auto maintenance.

#### Course Recommendation:

This course is recommended for students who wish to learn more about basic small engine maintenance and repair as well as general automotive maintenance, light repair, auto ownership and automobile mechanics. A car is not required to take the class but recommended.

#### Board Approved Primary Resource:

Auto Upkeep

#### Additional Registration Information:

None

### Auto Technology 2

**STD-250-00** ► In-Person (North)

Grades: 10-12	Course Duration: Semester-long
Fulfills Elective Requirement for Graduation	
Auto Technology 1 & Teacher Approval & Students must be 16 years of age or older	

#### Course Description:

This course will build upon the topics covered in level 1 and continue in Automotive Maintenance and repair topics and also include motorcycle topics. Lakeville North does have a car lift, multiple motorcycle lifts and tire changer that will be available for some of the class activities. The Students will earn OHSA 10 Certification as well as have the opportunity to do the Youth Skills Training on-the-job program. This allows students to have a paid work experience with a local automotive company. The job will work around a student's school schedule and allow them make money and learn from industry experts while still getting credit for the class. This provides a sustaining wage, on-the-job training, and a quality resume builder for students interested in a career in the automotive or mechanics industry.

The primary units of study will be Safety around the automobile, Tools and equipment, Auto care and cleaning, Fluid level checks, Electrical systems, Lubrication systems, Fuel systems, Cooling and climate control,



## Manufacturing and Welding Pathway

Ignition system, Suspension~steering and tires, Braking system, Drivetrain, Exhaust and emission systems, Alternative Fuels and designs, Automotive accessories, & Common problems and roadside Emergencies. Basic repairs on student vehicles will be covered including exhaust and rust repair. Custom motorcycle class builds will be available for qualifying students.

The students will demonstrate learning through oral and written assignments as well as hands-on class activities. Students will have access to the shop car lift for general auto maintenance and repairs approved by the instructor.

### Course Recommendation:

This course is recommended for students who wish to learn more about general automotive maintenance, light repair, auto ownership and motorcycle & automobile mechanics. A car is not required to take the class but recommended.

### Board Approved Primary Resource:

Auto Upkeep

### Additional Registration Information:

None

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## Architecture & Computer-Aided Design Pathway

### Architecture 1

**STA-100-00** ► In-Person

Grades: 9-12	Course Duration: Semester-long
Fulfills Elective Requirement for Graduation	
Prerequisite: None	

#### Course Description:

This course is the study of the basic concepts of residential design.

Primary units of study include basic house designs, the artistic process and foundations, primary considerations, architectural drafting fundamentals and room and space planning.

Students will demonstrate learning through projects using basic skills with industry standard AutoDesk computer-aided design software to create working drawings to include floor plans, elevation drawings, foundation plans, kitchen plans and construction details and design.

#### Course Recommendation:

This course is recommended for students interested in careers related to architecture and building construction.

#### Board Approved Primary Resources:

Architecture: Residential Drafting and Design  
Clois E Kicklighter - Joan C Kicklighter -  
Goodheart-Wilcox Co. – 2003 – Print  
ISBN: 9781590701959

Architecture: Residential Drafting and Design  
Clois E Kicklighter - Joan C Kicklighter -  
Goodheart-Wilcox Co. – 2008 – Print  
ISBN: 9781590706992

Basic Technical Drawing  
Henry Cecil Spencer - John T Dygdon - James  
E Novak - Glencoe/McGraw-Hill – 2004 – Print  
ISBN: 9780078457487

#### Additional Registration Information:

Colleges and universities may or may not accept this course as an Arts credit.

### Architecture 2

**STA-200-00** ► In-Person

Grades: 10-12	Course Duration: Semester-long
Fulfills Elective Requirement for Graduation	
Prerequisite: Architecture 1	

#### Course Description:

This course is a continuation of the study of architectural design focusing on multi-story and multi-unit residential structures.

Primary units of study include CAD commands and functions, room and space planning, the artistic process and foundations, construction systems, presentation methods, specifications and estimating.

Students will demonstrate learning through developing design skills with AutoDesk Revit software, completing a set of working drawings to include multiple levels and/or multiple units, elevation drawings, site plans, foundation plans, sections and construction details of projects of their own choice.

#### Course Recommendation:

This course is recommended for students interested in careers related to architecture and building construction.

#### Board Approved Primary Resources:

Architecture: Residential Drafting and Design  
Clois E Kicklighter - Joan C Kicklighter -  
Goodheart-Wilcox Co. – 2003 – Print  
ISBN: 9781590701959





## Architecture & Computer-Aided Design Pathway

Architecture: Residential Drafting and Design  
Clois E Kicklighter - Joan C Kicklighter -  
Goodheart-Wilcox Co. – 2008 – Print  
ISBN: 9781590706992

Basic Technical Drawing  
Henry Cecil Spencer - John T Dygdon - James  
E Novak - Glencoe/McGraw-Hill – 2004 – Print  
ISBN: 9780078457487

### Additional Registration Information:

Colleges and universities may or may not accept this course as an Arts credit.

## Architecture 3

**STA-300-00** ► In-Person

Grades: 10-12	Course Duration: Semester-long
Fulfills Elective Requirement for Graduation	
Prerequisite: Architecture 2	

### Course Description:

The course is a continuation of the study of architectural design with an introduction to commercial design.

The primary units of study include CAD commands and functions, room and space planning, construction systems, presentation methods, specifications and estimating as related to specific challenges.

Students will demonstrate learning with AutoDesk Academy software, analyzing an architectural design brief and working in teams to design a solution to the challenge, completing a set of working drawings to include multiple levels, elevation drawings, site plans, foundation plans and construction details and deliver a multimedia presentation to a panel of licensed architects for evaluation at the Minnesota

Technology Challenge.

### Course Recommendation:

This course is recommended for students interested in careers related to architecture and building construction.

### Board Approved Primary Resources:

Architecture: Residential Drafting and Design  
Clois E Kicklighter - Joan C Kicklighter -  
Goodheart-Wilcox Co. – 2003 – Print  
ISBN: 9781590701959

Architecture: Residential Drafting and Design  
Clois E Kicklighter - Joan C Kicklighter -  
Goodheart-Wilcox Co. – 2008 – Print  
ISBN: 9781590706992

Basic Technical Drawing  
Henry Cecil Spencer - John T Dygdon - James  
E Novak - Glencoe/McGraw-Hill – 2004 – Print  
ISBN: 9780078457487

### Additional Registration Information:

None

## Computer-Aided Design & Engineering 1

**STE-120-00** ► In-Person (North)

Grades: 9-12	Course Duration: Semester-long
Fulfills Elective Requirement for Graduation	
Prerequisite: None	

### Course Description:

This course is the study of engineering through problem solving related to design. Computer-Aided Design (CAD) software provides the foundation for modeling team projects and individual solutions to design briefs.





## Architecture & Computer-Aided Design Pathway

The primary units of study include CAD commands and functions, applied geometry, international standards of representation, problem solving models and the engineering design process.

Students will demonstrate learning through the application of basic skills with Creo/Pro CAD software, read and create technical drawings and sketches, and apply design and problem-solving models while working individually and in teams to build functional models and mechanisms.

### Course Recommendation:

This course is recommended for students interested in careers related to science, technology and engineering.

### Board Approved Primary Resources:

Basic Technical Drawing  
Henry Cecil Spencer - John T Dygdon - James E Novak - Glencoe/McGraw-Hill – 2004 – Print  
ISBN: 9780078457487

Mechanical Drawing: Board & CAD Techniques  
Jay D Helsel - Glencoe/McGraw-Hill – 2003 – Print  
ISBN: 9780078251009

### Additional Registration Information:

Demonstrations as well as student “hands on learning” will be provided regarding the design and manufacturing of product and or products. The course is offered at LNHS. LSHS students provide their own transportation.

## Computer-Aided Design & Engineering 2

**STE-220-00** ► In-Person (North)

Grades: 9-12	Course Duration: Semester-long
Fulfills Elective Requirement for Graduation	
Prerequisite: Computer-Aided Design & Engineering 1	

### Course Description:

This course is the continuous study of engineering through problem solving related to design.

The primary units of study include CAD commands and functions, applied geometry, international standards of representation, problem solving models and the engineering design process, mechanisms and kinematics.

Students will demonstrate learning through projects with three dimensional computer-aided design (CAD) software, perform kinematic analysis of CAD models, create animations and renderings of designs, and continue to apply design and problem solving models while working individually and in teams to create structures and programmable remotely controlled mechanisms.

### Course Recommendation:

This course is recommended for students interested in careers related to science, technology and engineering.

### Board Approved Primary Resources:

Basic Technical Drawing  
Henry Cecil Spencer - John T Dygdon - James E Novak - Glencoe/McGraw-Hill – 2004 – Print  
ISBN: 9780078457487



## Architecture & Computer-Aided Design Pathway

Mechanical Drawing: Board & CAD  
Techniques

Jay D Helsel - Glencoe/McGraw-Hill – 2003 –  
Print

ISBN: 9780078251009

### Additional Registration Information:

Demonstrations as well as student “hands on learning” will be provided regarding the design and manufacturing of product and or products. The course is offered at LNHS. LSHS students provide their own transportation.

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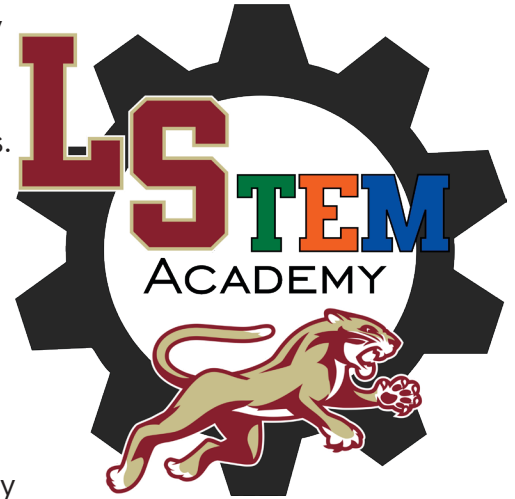
# STEM & MANUFACTURING:

## STEM ACADEMY (LSHS)

The Lakeville South STEM Academy and Industrial Technology course offerings provide students hands-on opportunities to develop skills in critical thinking, creativity, collaboration and communication to ensure post-secondary and future readiness.

Each STEM pathway will:

- Build on a core of science and math offerings
- Provide engineering and technology opportunities
- Embed 21st century learning throughout multiple disciplines
- Culminate in a real-life capstone project with a community connection



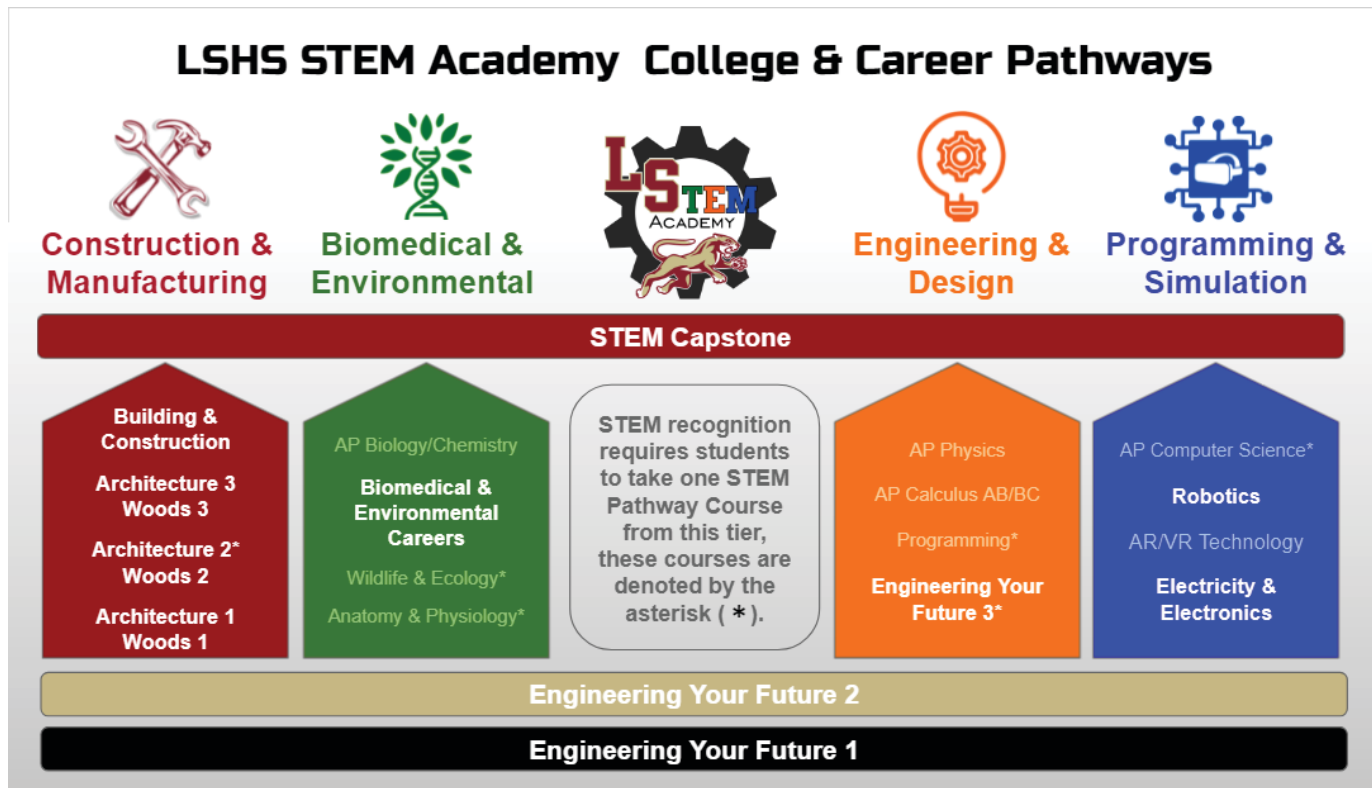
Students who complete the following requirements will get a STEM Academy medallion at commencement and a designation on their transcript:

- Eight semesters of math
- Eight semesters of science (Environmental & Biomedical Engineering counts as 1 semester)
- Engineering Your Future 1 & 2
- One STEM Pathway Course
  - Building Construction / Applied Architecture
  - Environmental and Biomedical Engineering
  - Engineering Your Future 3
  - Robotics
- Capstone Course

The Capstone course serves as a culminating demonstration of what a student has learned in his or her STEM pathway. In this course, students will complete a semester long engineering design project in which they will:

- Research a problem
- Design a solution
- Utilize the engineering process
- Demonstrate progress via a digital portfolio
- Create a variety of deliverables
- Present to a panel of teacher and community members

# STEM & MANUFACTURING: STEM ACADEMY (LSHS)



## STEM Academy Requirements (Supplement to the Credit Check)

### Math (8 Semesters)


### Science (8 Semesters)


### STEM (4 Semesters)

	Engineering Your Future 1
	Engineering Your Future 2
	STEM Pathway Course
	STEM Capstone



## Advanced Design & Manufacturing (Capstone 2)

**STD-500-00** ► In-Person (South)

Grades: 11-12	Course Duration: Semester-long
Fulfills Elective Requirement for Graduation	
Prerequisite: STEM Capstone or Teacher Approval	



### Course Description:

This course is the study of the engineering design process. It engages students in a personalized learning experience where they can continue to build knowledge, skills and abilities in their specialized area of interest. Students will perform research and apply the engineering design process to define a problem, design and build a solution while continuing to work closely with a community expert using the Agile philosophy and Scrum framework.

The primary units of study will focus on: computer programming, industrial technology, science, engineering, and manufacturing.

The students will demonstrate their learning through an electronic portfolio, guided research, and the engineering process.

### Board Approved Primary Source:

Technology devices

### Additional Registration Information:

Students will work intensely with a mentor in the community; therefore, students should have their own transportation but is not required. The course is offered at LSHS only. LNHS students provide their own transportation.

## Engineering Your Future 1

**STD-100-00** ► In-Person (South)

Grades: 9-12	Course Duration: Semester-long
Fulfills Arts or Elective Requirement for Graduation and is Required in STEM Academy	
Prerequisite: None	



### Course Description:

This entry level course expands on the study of all four STEM disciplines. It continues to challenge students with powerful real-world lessons, activities and design problems.

The primary units of study include engineering design and construction principles, engineering fundamentals of construction materials / methods, principles of technology in 3D printing, CAD design, computer integrated manufacturing and robotics, exploration in woodworking, electronic technologies, digital electronics and basic code writing, environmental engineering, career development and exploration, reading and understanding blueprints, basic principle of circuits and home wiring. The students will demonstrate learning through exploratory, hands-on, project-based activities and engineering projects while working in teams.

### Board Approved Primary Source:

Technology devices

### Additional Registration Information:

Students will develop problem-solving skills and apply their knowledge of research and design to create solutions to various challenges. The course is offered at LSHS only. LNHS students provide their own transportation. Colleges and universities may or may not accept this course as an Arts credit.



## Engineering Your Future 2

**STD-200-00** ► In-Person (South)

Grades: 9-12	Course Duration: Semester-long
Fulfills Arts or Elective Requirement for Graduation and is Required in STEM Academy	
Prerequisite: Engineering Your Future 1	



### Course Description:

This course expands on the study of all four STEM disciplines, picking up where Engineering Your Future 1 left off. It continues to challenge students with powerful real-world lessons, activities and design problems.

The primary units of study include engineering design and construction principles, engineering fundamentals of construction materials/methods, principles of technology in 3D printing, CAD design, computer integrated manufacturing and robotics, exploration in woodworking, electronic technologies, digital electronics and basic code writing, environmental engineering, career development and exploration, reading and understanding blueprints, basic principle of circuits and home wiring.

The students will demonstrate learning through exploratory, hands-on, project-based activities and engineering projects while working in teams.

### Board Approved Primary Source:

Technology devices

### Additional Registration Information:

Students will develop problem-solving skills and apply their knowledge of research and design to create solutions to various challenges. The course is offered at LSHS

only. LNHS students provide their own transportation. Colleges and universities may or may not accept this course as an Arts credit.

## Engineering Your Future 3

**STD-300-00** ► In-Person (South)

Grades: 10-12	Course Duration: Semester-long
Fulfills Elective Requirement for Graduation & STEM Pathway Requirement at Lakeville South	
Prerequisite: Engineering Your Future 2	



### Course Description:

This course expands on the study of all four STEM disciplines, picking up where Engineering Your Future 2 left off, preparing students for a STEM capstone experience. It continues to challenge students with powerful real-world lessons, activities and design problems introducing the Agile philosophy and Scrum framework.

The primary units of study include engineering design and construction principles, design and construction materials/methods, principles of technology in 3D printing, CAD design, computer integrated manufacturing and robotics, furniture design and CNC manufacturing, aerospace engineering, electronic technologies, digital electronics and app writing, environmental engineering principles, career development and exploration, creative design unit in student's area of interest.

The students will demonstrate learning through creation of an electronic portfolio of evidence: project-based activities and a research publication in a student's area of





interest.

### Board Approved Primary Source:

Technology devices

### Additional Registration Information:

Students will develop problem-solving skills and apply their knowledge of research and design to create solutions to various challenges. The course is offered at LSHS only. LNHS students provide their own transportation.

The primary units of study will focus on Environmental & Biological Engineering.

The students will demonstrate their learning through an electronic portfolio, guided research, engineering process.

### Board Approved Primary Source:

Technology devices

### Additional Registration Information:

The course is offered at LSHS only. Students provide their own transportation.

## Environmental & Biomedical Engineering

**STD-120-00** ► In-Person (South)

Grades: 10-12	Course Duration: Semester-long
Fulfills Elective Requirement for Graduation	
Prerequisite: Engineering Your Future 1 & 2	



### Course Description:

This course engages students in hands-on experiences through a project and mentor based course, in the environmental and biomedical engineering fields. This hands-on, real-world course actively engages students in their learning through the use of cutting-edge laboratory and engineering techniques such as using 3D printers, 3D scanners and AR/VR technologies. Students will perform research and apply the engineering design process to define a problem, design and build a solution while working closely with a community expert using the Agile philosophy and Scrum framework. There will also be opportunities to interact with professionals in the field.





## Engine Technology 1

**STD-130-00** ► In-Person (South)

Grades: 9-12	Course Duration: Semester-long
Fulfills Elective Requirement for Graduation	
Prerequisite: None	



### Course Description:

This entry level course is the study of the various power and energy systems which includes the following: small engines, hydraulics, and pneumatics.

The primary units of study include 2 and 4 cycle engines, hydraulics, and pneumatics.

The students will demonstrate learning through oral and written assessments as well as teardown and reassembly of small engines and construction of various hydraulic and pneumatic systems.

### Course Recommendation:

This course is recommended for students who wish to learn more about power and energy systems using a hands-on approach.

### Board Approved Primary Resource:

None

### Additional Registration Information:

None

## Engine Technology 2

**STD-230-00** ► In-Person (South)

Grades: 10-12	Course Duration: Semester-long
Fulfills Elective Requirement for Graduation	
Prerequisite: Engine Technology 1 & Teacher Approval & Student must be 16-years-old or older	



### Course Description:

Students will earn OSHA 10 Certification as well as have the opportunity to work toward obtaining certifications that employers are looking for! These credentials and work experiences give students an edge when starting their career. Students will have the opportunity to have paid work experience with a local automotive company. The job will work around a student's school schedule, it provides a sustaining wage, on-the-job training, and a quality resume builder for students interested in a careers in the automotive or mechanics industry.

The primary units of study include automotive related systems.

### Course Recommendation:

This course is recommended for students who wish to learn more about power and energy systems using a hands-on approach.

### Board Approved Primary Resource:

None

### Additional Registration Information:

Students have the opportunity to develop industry knowledge through a paid work experience coordinated by the classroom teacher. Must contact dean for scheduling.



## STEM Capstone

**STD-400-00** ► In-Person (South)

Grades: 11-12	Course Duration: Semester-long
Fulfills Elective Requirement for Graduation	
Prerequisite: Engineering Your Future 1 or Engineering Your Future 2 or a Pathway Course	



### Course Description:

This course engages students in a personalized learning experience where students apply critical thinking skills and creativity while investigating a specialized area of interest. Students will perform research and apply the engineering design process to define a problem, design and build a solution while working closely with a community expert using the Agile philosophy and Scrum framework. Students will complete a group project.

The primary units of study will focus on the area of expertise (Computer programming, Industrial Technology, Science, and Engineering).

The students will demonstrate their learning through an electronic portfolio, guided research, engineering process, and a presentation to a committee of teachers and community members.

### Board Approved Primary Source:

Technology devices

### Additional Registration Information:

The course is offered at LSHS only. Students provide their own transportation to mentors.

## DIY Home Projects

**STD-140-00** ► In-Person (South)

Grades: 9-12	Course Duration: Semester-long
Fulfills Elective Requirement for Graduation	
Prerequisite: None	



### Course Description:

This entry level course gives students hands-on experiences in imagining, designing, and creating personalized projects while exploring all areas of STEM. including woodworking, home-repair & improvement, metalworking, CAD, graphic design, 3D printing & laser engraving.

The primary units of study include the art of design and creation in metalworking, woodworking, 3D printing and laser engraving, and home repair and improvement.

The students will demonstrate learning through exploratory, hands-on, project-based activities.

### Board Approved Primary Resource:

Technological devices

### Additional Registration Information:

Students will develop hands-on skills and problem-solving skills in STEM areas of study. The course is offered at LSHS only. LNHS students provide their own transportation



## Robotics

**STD-160-00** ► In-Person

Grades: 10-12	Course Duration: Semester-long
Fulfills Elective Requirement for Graduation	
Prerequisite: Engineering Your Future 1 & 2	



### Course Description:

This course is the study of the use, programming and applications of robotics in a problem solving environment.

The primary units of study include robot commands and functions, problem solving models and the engineering design process.

Students will demonstrate learning through the designing, building, programming and testing of a robot. Students will work in teams to build a Tetrix robot specifically designed to meet a specific challenge. Problem solving skills will need to be developed, projects will need to be tested and reengineered to meet the required outcomes.

### Course Recommendation:

This course is recommended for students interested in careers related to robotics, and STEM automation.

### Board Approved Primary Resources:

TBD

### Additional Registration Information:

None

## Architecture 1

**STA-100-00** ► In-Person

Grades: 9-12	Course Duration: Semester-long
Lakeville South: Fulfills Arts or Elective Requirement for Graduation	
Lakeville North: Fulfills Elective Requirement for Graduation	
Prerequisite: None	



### Course Description:

This course is the study of the basic concepts of residential design.

Primary units of study include basic house designs, the artistic process and foundations, primary considerations, architectural drafting fundamentals and room and space planning.

Students will demonstrate learning through projects using basic skills with industry standard AutoDesk computer aided design software to create working drawings to include floor plans, elevation drawings, foundation plans, kitchen plans and construction details and design.

### Course Recommendation:

This course is recommended for students interested in careers related to architecture and building construction.

### Board Approved Primary Resources:

None

### Additional Registration Information:

Colleges and universities may or may not accept this course as an Arts credit.



## Architecture 2

**STA-200-00** ► In-Person

Grades: 10-12	Course Duration: Semester-long
Lakeville South: Fulfills Elective Requirement for Graduation & STEM Pathway Requirement	
Lakeville North Class: Fulfills Elective Requirement for Graduation	
Prerequisite: Architecture 1	



### Course Description:

This course is a continuation of the study of architectural design focusing on multi-story and multi-unit residential structures.

Primary units of study include CAD commands and functions, room and space planning, the artistic process and foundations, construction systems, presentation methods, specifications and estimating.

Students will demonstrate learning through developing design skills with AutoDesk Revit software, completing a set of working drawings to include multiple levels and/or multiple units, elevation drawings, site plans, foundation plans, sections and construction details of projects of their own choice.

### Course Recommendation:

This course is recommended for students interested in careers related to architecture and building construction.

### Board Approved Primary Resources:

None

### Additional Registration Information:

Colleges and universities may or may not accept this course as an Arts credit.

## Architecture 3

**STA-300-00** ► In-Person

Grades: 10-12	Course Duration: Semester-long
Fulfills Elective Requirement for Graduation	
Prerequisite: Architecture 2	



### Course Description:

The course is a continuation of the study of architectural design with an introduction to commercial design.

The primary units of study include CAD commands and functions, room and space planning, construction systems, presentation methods, specifications and estimating as related to specific challenges.

Students will demonstrate learning with AutoDesk Academy software, analyzing an architectural design brief and working in teams to design a solution to the challenge, completing a set of working drawings to include multiple levels, elevation drawings, site plans, foundation plans and construction details and deliver a multimedia presentation to a panel of licensed architects for evaluation at the Minnesota Technology Challenge.

### Course Recommendation:

This course is recommended for students interested in careers related to architecture and building construction.

### Board Approved Primary Resources:

None

### Additional Registration Information:

None



## Building Construction/ Applied Architecture

**STA-120-00** ► In-Person (South)

Grades: 10-12	Course Duration: Semester-long
Fulfills Elective Graduation Requirement	
Prerequisite: Woods 1 & Architecture 1 or Instructor Approval	



### Course Description:

This course is the study of residential construction and building trades. Primary units of study include blueprint reading, architectural scale modeling and structural engineering concepts.

Students will demonstrate learning through blueprint reading worksheets and hands-on activities building scale models and mock-ups. Students will design simple structures with architectural CAD software, read and create scale design drawing and models, demonstrate familiarity with residential framing techniques and terminology, demonstrate safe lab and tool use, explore construction materials and technologies and construct residential electrical circuits.

### Course Recommendation:

This course is recommended for students interested in careers related to architecture and building construction.

### Board Approved Primary Resources:

None

### Additional Registration Information:

Students will have the opportunity to take the OSHA 10 training and certification test. This training provides an entry-level construction worker's general awareness on recognizing

and preventing hazards on a construction site. LNHS students provide their own transportation. Colleges and universities may or may not accept this course as an Arts credit.

## Electricity & Electronics 1

**STA-130-00** ► In-Person (South)

Grades: 9-12	Course Duration: Semester-long
Fulfills Elective Requirement for Graduation	
Prerequisite: None	



### Course Description:

This entry level course is the study of Basic Electrical theory that also includes an introduction to electronics and residential wiring.

The primary units of study include Ohm's law and power in series, parallel and series-parallel circuits, magnetism and electromagnetism, measurement and testing instruments, circuit construction, testing and troubleshooting, and wiring and troubleshooting a variety of typical electrical circuits.

### Course Recommendation:

This entry-level course is recommended for students interested in careers related to electrical circuit design and repair, electrical engineering or residential and commercial electrician.

### Board Approved Primary Resource:

None

### Additional Registration Information:

None



## Electricity 2

**STA-230-00** ► In-Person (South)

Grades: 10-12	Course Duration: Semester-long
Fulfills Elective Requirement for Graduation	
Prerequisite: Electricity & Electronics 1	



### Course Description:

This course is the study of electrical systems and components. The primary units of study include hardware, troubleshooting, maintenance and repair, soldering and programming digital circuits.

Students will demonstrate learning by repairing various electronic systems and devices. Eligible students may have the opportunity for a paid work experience through the YST program. The job will work around a student's school schedule, it provides a sustaining wage, on-the-job training, and a quality resume builder for students interested in a careers in the electrical or electronics industry.

### Course Recommendation:

This course is recommended for students interested in careers related to electrical circuit design and repair, electrical engineering or residential and commercial electrician.

### Board Approved Primary Resource:

None

### Additional Registration Information:

None

## Woods 1

**STA-140-00** ► In-Person (South)

Grades: 9-12	Course Duration: Semester-long
Fulfills Elective Requirement for Graduation	
Prerequisite: None	



### Course Description:

This entry level course is the study of planning and construction of small and medium-sized woodworking projects and product development.

The primary units of study include the use of hand and machine tools incorporating methods used in industry, measurement, safety, joinery and assembly, preparation for finishes, finishing.

Students will demonstrate learning through the creation of wood projects through hands-on activities, sequence steps and apply processes to complete projects and demonstrate safe equipment, tooling and lab use.

### Course Recommendation:

This course is recommended for students interested in careers related to manufacturing, woodworking, cabinet making and building construction.

### Board Approved Primary Resources:

None

### Additional Registration Information:

A fee will be assessed for any projects taken home. Students may purchase higher quality materials than offered as part of the course. LNHS students provide their own transportation.





## Woods 2

**STA-240-00** ► In-Person (South)

Grades: 10-12	Course Duration: Semester-long
Fulfills Elective Requirement for Graduation	
Prerequisite: Woods 1	



### Course Description:

This course is the study of the design and construction of medium-sized to larger size woodworking projects as well as product development.

The primary units of study include the use of hand and machine tools incorporating methods used in industry, measurement, safety, joinery and assembly, preparation for finishes, finishing.

Students will demonstrate learning through the creation of wood projects through hands-on activities, sequence steps and apply processes to complete projects and demonstrate safe equipment, tooling and lab use.

### Course Recommendation:

This course is recommended for students interested in careers related to manufacturing, woodworking, cabinet making and building construction.

### Board Approved Primary Resource:

None

### Additional Registration Information:

A fee will be assessed for any projects taken home. Students may purchase higher quality materials than offered as part of the course. LNHS students provide their own transportation.

## Woods 3

**STA-340-00** ► In-Person (South)

Grades: 10-12	Course Duration: Semester-long
Fulfills Elective Requirement for Graduation	
Prerequisite: Woods 2	



### Course Description:

This course is the study of the design and construction of cabinet making and related furniture projects.

The primary units of study include the artistic process and foundations, hand and machine tools incorporating methods used in industry, measurement, safety, joinery and assembly, preparation for finishes, finishing.

Students will demonstrate learning through the design of individual wood projects, sequence steps and apply processes to complete projects and demonstrate safe equipment, tooling and lab use.

### Course Recommendation:

This course is recommended for students interested in careers related to manufacturing, woodworking, cabinet making and building construction.

### Board Approved Primary Resources:

None

### Additional Registration Information:

A fee will be assessed for any projects taken home. Students may purchase higher quality materials than offered as part of the course. LNHS students provide their own transportation. Colleges and universities may or may not accept this course as an Arts credit.





## Woods 4

**STA-440-00** ► In-Person (South)

Grades: 10-12	Course Duration: Semester-long
Fulfills Elective Requirement for Graduation	
Prerequisite: Woods 2	



### Course Description:

This course is the study of the design and construction of cabinet making and related furniture projects.

The primary units of study include the artistic process and foundations, hand and machine tools incorporating methods used in industry, measurement, safety, joinery and assembly, preparation for finishes, finishing.

Students will demonstrate learning through the design of individual wood projects, sequence steps and apply processes to complete projects and demonstrate safe equipment, tooling and lab use.

### Course Recommendation:

This course is recommended for students interested in careers related to manufacturing, woodworking, cabinet making and building construction.

### Board Approved Primary Resources:

None

### Additional Registration Information:

A fee will be assessed for any projects taken home. Students may purchase higher quality materials than offered as part of the course. LNHS students provide their own transportation. Colleges and universities may or may not accept this course as an Arts credit.



# WORLD LANGUAGE

The study of world languages provides students with an opportunity to learn more about the language, culture and traditions of other countries and builds essential skills for today's global society including: broadening your experiences, expanding your view of the world, contributing to cultural awareness and literacy, building practical skills, improving the knowledge of your own language through comparison and contrast with the world language, and expanding opportunities for meaningful activities such as travel.

The fundamental objective of the World Languages Department is to encourage students to become more aware of the world and its people through study of another language and culture. Students will meet the following national standards of the American Council on the Teaching of Foreign Languages (ACTFL):

- Communicate in languages other than English
- Gain knowledge and understanding of other cultures
- Connect with other disciplines and acquire related information
- Develop insight into the nature of language and culture
- Participate in multilingual communities at home and around the world (upper levels)

Studying World Languages is beneficial for students whether they decide to continue their education, enter the workforce or travel. While the world language requirements for specific colleges and universities vary, most require language study for degree-seeking students. The world languages offered are American Sign Language, French, Honors French, Spanish, and Honors Spanish.

## American Sign Language 1

**WLA-100-11 / WLA-100-12** ► In-Person  
**WLA-100-11L / WLA-100-12L** ► Online (Link<sup>12</sup>)

Grades: 9-12	Course Duration: Year-long
Fulfills Elective Requirement for Graduation	
Prerequisite: None	

### Course Description:

This course is an introduction to the basic skills in production and comprehension of American Sign Language (ASL). It exposes students to ASL grammar, includes the manual alphabet and numbers, develops conversational ability and culturally appropriate behaviors.

The primary units of study include an introduction to the Deaf world and Deaf community, academics, family and relationships, residences, transportation and scheduling.

The students will demonstrate learning through signed presentations, informal video submissions, online worksheets, receptive tests/quizzes, research papers, written tests/quizzes, and individual and group projects.

### Course Recommendation:

This course is recommended for students who are interested in learning a new language and culture, foresee a post-secondary education at the university level, want to work collaboratively and/or anticipate a career in which knowledge of a second language and culture is desirable.

### Board Approved Primary Resources:

TRUE+WAY ASL: Unit 1-5 e-Workbook. 3rd Edition. (2021)  
 Harris R. - Bryant, R. - Gelineau, L. - Shannon T.  
 ISBN: 9780998524542

### Additional Registration Information:

None

## American Sign Language 2

**WLA-200-11 / WLA-200-12** ► In-Person  
**WLA-200-11L / WLA-200-12L** ► Online (Link<sup>12</sup>)

Grades: 9-12	Course Duration: Year-long
Fulfills Elective Requirement for Graduation	
Prerequisite: American Sign Language 1	

### Course Description:

This course builds upon students' skills in production and comprehension of American Sign Language (ASL). Lessons are designed around recognition and demonstration of grammatical features of ASL with a focus on increasing fluency and accuracy. Cultural awareness of the diverse Deaf communities of the world will also be taught.

The primary units of study include scheduling, daily activities, chores, hobbies, food, cooking and describing people.

The students will demonstrate learning through signed presentations, informal video submissions, online worksheets, receptive tests/quizzes, research papers, written tests/quizzes, and individual and group projects.

### Course Recommendation:

This course is recommended for students who are interested in learning a new language and culture, foresee a post-secondary education at the university level, want to work collaboratively with others and/or anticipate a career in which knowledge of a second language and culture is desirable.

### Board Approved Primary Resources:

TRUE+WAY ASL: Unit 6-10 e-Workbook. 3rd Edition. (2021)  
 Harris R. - Bryant, R. - Gelineau, L. - Shannon T.  
 ISBN: 9780998524542

### Additional Registration Information:

None

## American Sign Language 3 American Sign Language 4

WLA-300-11 / WLA-300-12 ► In-Person

Grades: 10-12	Course Duration: Year-long
Fulfills Elective Requirement for Graduation	
Prerequisite: American Sign Language 1 and 2	

### Course Description:

This course is designed to further the development of comprehension and production abilities in American Sign Language (ASL). Lessons are designed around recognition and demonstration of more sophisticated grammatical features of ASL with a focus on increasing fluency and accuracy. Cultural awareness of the diverse Deaf communities of the world are also taught.

The primary units of study include the workplace, finances, wellness and fitness, destinations and traveling, Deaf history and narratives in ASL.

The students will demonstrate learning through signed presentations, informal video submissions, online worksheets, receptive tests/quizzes, research papers, written tests/quizzes, individual and group projects.

### Course Recommendation:

This course is recommended for students who are interested in learning a new language and culture, foresee a post-secondary education at the university level, want to work collaboratively with others and/or anticipate a career in which knowledge of a second language and culture is desirable.

### Board Approved Primary Resources:

TRUE+WAY ASL: Unit 13-15 e-Workbook. 3rd Edition. (2021)

### Additional Registration Information:

None

WLA-400-11 / WLA-400-12 ► In-Person

Grades: 10-12	Course Duration: Year-long
Fulfills Elective Requirement for Graduation	
Prerequisite: American Sign Language 1 and 2	

### Course Description:

This course is designed to further the development of comprehension and production abilities in American Sign Language (ASL). Lessons are designed around recognition and demonstration of more sophisticated grammatical features of ASL with focus on increasing fluency and accuracy. Cultural awareness of the diverse Deaf communities of the world are also instilled.

The primary units of study include: Narrative Building Blocks, Narratives and History

The students will demonstrate learning through signed presentations, informal video submissions, online worksheets, receptive tests, research papers, written tests, and individual and group projects.

### Course Recommendation:

This course is recommended for any student who has a desire to communicate in a visual language and especially those who plan to pursue a four-year degree or a career in a field related to deafness. Highly recommended for students who want to work collaboratively and develop language skills in a new (visual) mode.

### Board Approved Primary Resources:

TRUE+WAY ASL: Unit 13-15 e-Workbook. 3rd Edition. (2021)

### Additional Registration Information:

None

## French 1

**WLF-100-11 / WLF-100-12** ► In-Person  
**WLF-100-11L / WLF-100-12L** ► Online (Link<sup>12</sup>)

Grades: 9-12	Course Duration: Year-long
Fulfills Elective Requirement for Graduation	
Prerequisite: None	

### Course Description:

This course is the study of beginning French language and culture.

The primary units of study include the French-speaking world, the importance of learning French, the city of Poitiers, the French education system, French currency, Quebec, the metric system, Paris, dining in France, French family life, and the Côte d'Ivoire. French 1 vocabulary topics include numbers, classroom expressions, activities, school subjects, school-related words, colors, sports, hobbies, weather expressions, time expressions, foods and beverages, places to go, things to do, family members, adjectives, expressions of quantity, and meals.

The students will demonstrate learning through class participation, homework, projects, quizzes, and tests. All units address the four modalities of language learning: reading, writing, speaking, and listening. At all levels of French, great emphasis is placed on speaking the language.

### Course Recommendation:

This course is recommended for students who are interested in learning a new language and culture and foresee a post-secondary education at the university level and/or anticipate a career in which a second language is desirable.

### Board Approved Primary Resource:

Allez Viens! Holt French, Level 1  
 John DeMado - Holt, Rinehart and Winston – 2003  
 – Print  
 ISBN: 9780030565939

### Additional Registration Information:

None

## French 2

**WLF-200-11 / WLF-200-12** ► In-Person  
**WLF-200-11L / WLF-200-12L** ► Online (Link<sup>12</sup>)

Grades: 9-12	Course Duration: Year-long
Fulfills Elective Requirement for Graduation	
Prerequisite: French 1	

### Course Description:

This course is the study of intermediate French language and culture.

The primary units of study include the city of Arles, using the phone, fashion, vacations, small talk, getting a driver's license, French departments and territories, Martinique, studying abroad, being a houseguest, houses, meals, special occasions, Carnival, the Touraine region, grades and report cards, school life, castles, and public transportation. French 2 vocabulary topics include daily activities, clothing, places and activities, travel items, buildings, transportation, locations, furniture and rooms, food items to buy, meals, gift items, school day vocabulary, and weekend activities.

The students will demonstrate learning through class participation, homework, projects, quizzes, and tests. All units address the four modalities of language learning: reading, writing, speaking, and listening. At all levels of French, great emphasis is placed on speaking the language.

### Course Recommendation:

This course is recommended for students who are interested in learning a new language and culture and foresee a post-secondary education at the university level, have completed level 1 of French, and/or anticipate a career in which a second language is desirable.

### Board Approved Primary Resource:

Allez Viens! Holt French, Level 1 and 2  
 John DeMado - Holt, Rinehart and Winston – 2003  
 – Print  
 ISBN: 9780030565946

### Additional Registration Information:

None

## French 3

**WLF-300-11 / WLF-300-12** ► In-Person  
**WLF-300-11L / WLF-300-12L** ► Online (LinK<sup>12</sup>)

Grades: 9-12	Course Duration: Year-long
Fulfills Elective Requirement for Graduation	
Prerequisite: French 2	

### Course Description:

This course continues the study of intermediate French language and culture.

The primary units of study include health and fitness, Côte d'Ivoire, the French region of Provence, music, cinema, Canada, Switzerland, and fashion. French 3 vocabulary topics include health and fitness, childhood, feelings, personal events, music, movies, books, nature, chores, personal and social responsibilities, and fashion. French 3 students participate in French Day at the Minnesota Zoo.

The students will demonstrate learning through class participation, homework, projects, quizzes, and tests. All units address the four modalities of language learning: reading, writing, speaking, and listening. At all levels of French, great emphasis is placed on speaking the language.

### Course Recommendation:

This course is recommended for students who are interested in learning a new language and culture and foresee a post-secondary education at the university level, have completed levels 1 and 2 of French, and/or anticipate a career in which a second language is desirable.

### Board Approved Primary Resource:

Allez Viens! Holt French, Level 2 and 3  
 John DeMado - Holt, Rinehart and Winston – 2006  
 – Print  
 ISBN: 9780030369445

### Additional Registration Information:

None

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## Honors French 4

**WLF-H40-11 / WLF-H40-12** ► In-Person

Grades: 10-12	Course Duration: Year-long
Fulfills Elective Requirement for Graduation	
Prerequisite: French 3	

### Course Description:

This course is the study of advanced French language and culture.

The primary units of study include regional traditions of France, Belgium, Senegal, Morocco, Central African Republic, Tunisia, Canada, and Louisiana. French 4 vocabulary topics include travel, transportation, future plans, family relationships, African flora and fauna, TV and film, sea life, and music. French 4 students will read a novel in French and deliver presentations at French Day at the Zoo. They will conclude their four years in French with a field trip to an authentic French restaurant.

Students will demonstrate learning through class participation, homework, projects, quizzes, and tests. All units address reading, writing, speaking, and listening. At all levels of French, great emphasis is placed on speaking the language.

### Course Recommendation:

This course is recommended for students who are interested in learning a new language and culture and foresee a post-secondary education, have completed levels 1-3 of French, and/or anticipate a career where a second language is desirable. This course is labeled as Honors due to the challenge. This course is designed for students who would normally request a regular course and who would normally request an honors course.

### Board Approved Primary Resource:

Allez Viens! Holt French, Level 3  
 John DeMado - Holt, Rinehart and Winston – 2006  
 – Print  
 ISBN: 9780030369445

### Additional Registration Information:

None

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## Spanish 1

**WLS-100-11 / WLS-100-12** ► In-Person  
**WLS-100-11L / WLS-100-12L** ► Online (Link<sup>12</sup>)

Grades: 9-12	Course Duration: Year-long
Fulfills Elective Requirement for Graduation	
Prerequisite: None	

### Course Description:

This course is the study of beginning Spanish language and the cultures of Spanish-speaking countries.

The primary units of study include greetings, foods, activities, physical descriptions, telling time, numbers, feelings, classes, family, clothing, places, and household items and chores.

The students will demonstrate learning through tests and quizzes, projects, homework, class participation, and final semester exams that incorporate the four modalities of language learning: listening, speaking, reading, and writing.

### Course Recommendation:

This course is recommended for students who are interested in learning a new language and culture, foresee a post-secondary education at the university level, and/or anticipate a career in which knowledge of a second language and culture is desirable.

### Board Approved Primary Resource:

¡ Avancemos! 1  
 Estella Marie Gahala - Patricia Hamilton Carlin  
 - Audrey L Heining-Boynton - Ricardo Otheguy  
 - Barbara J Rupert - Holt McDougall – 2010 –  
 Print  
 ISBN: 9780554025315

### Additional Registration Information:

None

## Spanish 2

**WLS-220-11 / WLS-220-12** ► In-Person  
**WLS-220-11H / WLS-220-12H** ► Hybrid (South)  
**WLS-220-11L / WLS-220-12L** ► Online (Link<sup>12</sup>)

Grades: 9-12	Course Duration: Year-long
Fulfills Elective Requirement for Graduation	
Prerequisite: Spanish 1	

### Course Description:

This course is the study of beginning/intermediate Spanish language and cultures of the Spanish-speaking world.

The primary units of study include the world of travel, sports, daily routines, clothing, shopping at the market, legends and stories, preparing and describing food and ordering meals at a restaurant.

The students will demonstrate learning through tests and quizzes, projects, homework, class participation, and final semester exams that incorporate the four modalities of language learning: listening, speaking, reading, and writing.

### Course Recommendation:

This course is recommended for students who are interested in learning a new language and culture, foresee a post-secondary education at the university level, and/or anticipate a career in which knowledge of a second language and culture is desirable.

### Board Approved Primary Resource:

¡ Avancemos! 2  
 Estella Marie Gahala - Patricia Hamilton Carlin  
 - Audrey L Heining-Boynton - Ricardo Otheguy  
 - Barbara J Rupert - Holt McDougall – 2010 –  
 Print  
 ISBN: 9780554025322

### Additional Registration Information:

The hybrid course is offered at LSHS only. LNHS students provide their own transportation.

## Honors Spanish 2

WLS-H20-11 / WLS-H20-12 ► In-Person

Grades: 9-12	Course Duration: Year-long
Fulfills Elective Requirement for Graduation	
Prerequisite: Spanish 1	

### Course Description:

This course is the study of beginning/intermediate Spanish language and cultures of the Spanish-speaking world.

The primary units of study include the world of travel, sports, daily routines, clothing, shopping at the market, legends and stories, preparing and describing food and ordering meals at a restaurant.

The students will demonstrate learning through tests and quizzes, projects, homework, class participation, and final semester exams that incorporate the four modalities of language learning: listening, speaking, reading, and writing.

### Course Recommendation:

This course is recommended for students who are interested in learning a new language and culture, foresee a post-secondary education at the university level, and/or anticipate a career in which knowledge of a second language and culture is desirable. Honors courses emphasize critical thinking, refined writing, advanced reading and conversation in Spanish. In addition, more detailed cultural components will be explored.

### Board Approved Primary Resource:

¡Avancemos! 2

Estella Marie Gahala - Patricia Hamilton Carlin  
- Audrey L Heining-Boynton - Ricardo Otheguy  
- Barbara J Rupert - Holt McDougall – 2010 – Print  
ISBN: 9780554025322

### Additional Registration Information:

None

## Spanish 3

WLS-330-11 / WLS-330-12 ► In-Person  
WLS-330-11H / WLS-330-12H ► Hybrid (South)  
WLS-330-11L / WLS-330-12L ► Online (LinK<sup>12</sup>)

Grades: 9-12	Course Duration: Year-long
Fulfills Elective Requirement for Graduation	
Prerequisite: Spanish 2	

### Course Description:

This course is the study of intermediate Spanish language and cultures of the Spanish-speaking world.

The primary units of study include nature and camping, volunteering in the community, family relationships, leisure on the coast, media, socio-cultural interactions, around the neighborhood, urban living, future of the planet, describing others and their professions, and travel preparations.

The students will demonstrate learning through tests and quizzes, projects, homework, class participation, and final semester exams that incorporate the four modalities of language learning: listening, speaking, reading, and writing.

### Course Recommendation:

This course is recommended for students who are interested in learning a new language and culture, foresee a post-secondary education at the university level, and/or anticipate a career in which knowledge of a second language and culture is desirable.

### Board Approved Primary Resource:

¡Avancemos! 3

Estella Marie Gahala - Patricia Hamilton Carlin  
- Audrey L Heining-Boynton - Ricardo Otheguy  
- Barbara J Rupert - Holt McDougall – 2010 – Print  
ISBN: 9780554025339

### Additional Registration Information:

The hybrid course is offered at LSHS only. LNHS students provide their own transportation.

## Honors Spanish 3

WLS-H30-11 / WLS-H30-12 ► In-Person

Grades: 9-12	Course Duration: Year-long
Fulfills Elective Requirement for Graduation	
Prerequisite: Spanish 2	

### Course Description:

This course is the study of intermediate Spanish language and cultures of the Spanish-speaking world.

The primary units of study include nature and camping, volunteering in the community, family relationships, leisure on the coast, media, socio-cultural interactions, around the neighborhood, urban living, future of the planet, describing others and their professions, and travel preparations.

The students will demonstrate learning through tests and quizzes, projects, homework, class participation, and final semester exams that incorporate the four modalities of language learning: listening, speaking, reading & writing.

### Course Recommendation:

This course is recommended for students who are interested in learning a new language and culture, foresee a post-secondary education at the university level, and/or anticipate a career in which knowledge of a second language and culture is desirable. Honors courses emphasize critical thinking, refined writing, advanced reading and conversation in Spanish. In addition, more detailed cultural components will be explored.

### Board Approved Primary Resource:

¡Avancemos! 3

Estella Marie Gahala - Patricia Hamilton Carlin  
- Audrey L Heining-Boynton - Ricardo Otheguy  
- Barbara J Rupert - Holt McDougall – 2010 – Print

ISBN: 9780554025339

### Additional Registration Information:

None

## Honors Spanish 4

WLS-H40-11 / WLS-H40-12 ► In-Person

WLS-H40-11H / WLS-H40-12H ► Hybrid

Grades: 10-12	Course Duration: Year-long
Fulfills Elective Requirement for Graduation	
Prerequisite: Spanish 3	

### Course Description:

This course is the study of advanced Spanish language and the cultures of Spanish-speaking countries.

The primary units of study include school activities, food and cooking, international travel, society, medicine, news, television, and animals in Spanish-speaking countries

The students will demonstrate learning through tests and quizzes, projects, homework, class participation, and final semester exams that incorporate the four modalities of language learning: listening, speaking, reading, and writing.

### Course Recommendation:

This course is recommended for students who are interested in learning a new language and culture, foresee a post-secondary education, and/or anticipate a career in which knowledge of a second language and culture is desirable. This course is labeled as Honors due to the challenge. These courses are designed for both students who would normally request a regular course and those who would normally request an honors course.

### Board Approved Primary Resource:

¡Avancemos! 4

Estella Gahala - Ana C.Jarvis - Raquel Lebrede  
- Holt McDougall – 2010 – Print  
ISBN: 9780554025308

### Additional Registration Information:

None

# LINK<sup>12</sup> LAKEVILLE - ONLINE

Students enrolled in LinK<sup>12</sup> Lakeville complete all of their school work online with the support of parents, families and licensed teachers. By working online, students and families have flexibility as to when the learning occurs. By taking online courses students can study where, how and when they want. Courses are available 24 hours a day, seven days a week.



Once students login to their courses, their learning begins. They can focus on a different class each day or work on each class every day. Licensed teachers are also available to guide lesson pacing, answer questions, or help when students need support. Students are required to participate in weekly online classroom connect sessions. Sessions are available live and recorded. Drop in Days (in person support) are available twice a month for students wanting additional academic guidance.

Students choose online learning for a wide variety of reasons including:

- Flexible schedules
- Smaller class sizes
- Student learning style
- Self-pacing (with guidance)
- Individualized support
- Personalized learning
- Fewer distractions
- 21st century skill development

## Art in World Cultures

**FAA-180-00L** ► Online (Link<sup>12</sup>)

Grades: 9-12	Course Duration: Semester-long
Fulfills Arts or Elective Requirement for Graduation	
Prerequisite: None	

### Course Description:

This course is the study of some of the greatest artists of our time. Students will also create art of their own, including digital art.

The primary units of study include the basic principles and elements of art, how to critique art, and how to examine some of the traditional art of the Americas, Africa, and Oceania in addition to the development of Western art.

The students will demonstrate learning through assignments, discussions, tests, quizzes, and projects.

### Board Approved Primary Resource:

There is no additional text for this course.

### Additional Registration Information:

This course is delivered 100% online.

The primary units of study include major periods and movements in art history while focusing on masterworks and the intellectual, technical, and creative processes behind those works. Studio lessons provide opportunities for drawing, painting, sculpting, and other creative endeavors.

The students will demonstrate learning through assignments, discussions, quizzes, and projects.

### Board Approved Primary Resource:

There is no additional text for this course.

### Additional Registration Information:

This course is delivered 100% online.

## Digital Photo-Editing & Design

**FAA-171-00L** ► Online (Link<sup>12</sup>)

Grades: 9-12	Course Duration: Semester-long
Fulfills Arts or Elective Requirement for Graduation	
Prerequisite: None	

### Course Description:

This course is a study of the elements and principles of design, as well as foundational concepts of visual communication.

The primary units of study include surveying a variety of media and art, use of image editing and digital drawing software, responding to the artwork of others, and learning how to combine artistic elements to create finished pieces that effectively communicate ideas.

The students will demonstrate learning through assignments, quizzes, and projects.

## Fine Art

**FAA-190-00L** ► Online (Link<sup>12</sup>)

Grades: 9-12	Course Duration: Semester-long
Fulfills Arts or Elective Requirement for Graduation	
Prerequisite: None	

### Course Description:

This course is a study of how art history, appreciation, and analysis combine, while engaging students in hands-on creative projects.

**Board Approved Primary Resource:**

There is no additional text for this course.

**Additional Registration Information:**

This course is delivered 100% online.

**Required Technology:**

Access to Admin permissions to download Digital Art Programs/additional program files, and browsers like Chrome, Firefox or Safari. Recommended Technology: Traditional two-click mouse (NOT just a trackpad on a laptop).

**Digital Photography**

FAA-161-00L ► Online (Link<sup>12</sup>)

Grades: 9-12	Course Duration: Semester-long
Fulfills Arts or Elective Requirement for Graduation	
Prerequisite: None	

**Course Description:**

This course is the study and creation of photographic composition and use of the elements and principles of art in photography.

The primary units of study include the elements and principles of art in photographs, using your digital camera, subjects and portraits, composition, lighting, and image processing for black and white photography.

The students will demonstrate learning through quizzes and projects.

**Board Approved Primary Resource:**

There is no additional text for this course.

**Additional Registration Information:**

This course is delivered 100% online. Required Technology: Access to some kind of digital camera (smartphone cameras ARE acceptable) and ability to transfer files to a computer. (Via cable, cloud, or google

photos.) Access to Admin permissions for downloading Digital editing software. Internet browser: Chrome, Firefox, or Safari.

**Digital Art: Drawing & Design**

FAA-141-00L ► Online (Link<sup>12</sup>)

Grades: 9-12	Course Duration: Semester-long
Fulfills Arts or Elective Requirement for Graduation	
Prerequisite: None	

**Course Description:**

This course is a study of the basic tools to edit, manipulate and create digital art. Students learn the basics of composition, color, and layout through the use of hands-on projects that allow them to use their creativity while developing important foundational skills.

The primary units of study include using the GIMP software to create a wide variety of projects involving the mastery of technical skills while creating advertisements, digital drawings, comics, posters, and more.

The students will demonstrate learning through quizzes and projects.

**Board Approved Primary Resource:**

There is no additional text for this course.

**Additional Registration Information:**

This course is delivered 100% online. Required Technology: Access to Admin permissions to download Digital Art Programs/additional program files, and browsers like Chrome, Firefox or Safari. Recommended Technology: Traditional two-click mouse. (NOT just a trackpad on a laptop.)



## College & Career Readiness Hospitality & Tourism

**BEZ-160-00L** ► Online (Link<sup>12</sup>)

Grades: 9-12	Course Duration: Semester-long
Fulfills Elective Requirement for Graduation	
Prerequisite: None	

### Course Description:

This course is the study of evaluating postsecondary educational options and careers while developing career skills such as job searching and interviewing.

Students explore their options for life after high school and implement plans to achieve their goals. They identify their aptitudes, skills, and preferences, and explore a wide range of potential careers. They investigate the training and education required for the career of their choice, and create a plan to be sure that their work in high school is preparing them for the next step. They also receive practical experience in searching and applying for colleges, securing financial aid, writing a resume and cover letter, and interviewing for a job.

The students will demonstrate learning through assignments, tests, quizzes, and projects.

### Course Recommendation:

This course is recommended for students interested in exploring their career and postsecondary options.

### Board Approved Primary Resource:

There is no additional text for this course.

### Additional Registration Information:

This course is 100% online.

**BEZ-150-00L** ► Online (Link<sup>12</sup>)

Grades: 9-12	Course Duration: Semester-long
Fulfills Elective Requirement for Graduation	
Prerequisite: None	

### Course Description:

This course is the study of the hospitality and tourism industry. The primary units of study include hotel and restaurant management, key hospitality issues, the development and management of tourist locations, event planning, marketing and environmental issues related to leisure.

The students will demonstrate learning through assignments, tests, quizzes, and projects.

### Course Recommendation:

This course is recommended for students who are interested in careers in the hospitality industry.

### Board Approved Primary Resource:

There is no additional text for this course.

### Additional Registration Information:

This course is delivered 100% online.



## International Business

**BEB-120-00L** ► Online (LinK<sup>12</sup>)

Grades: 9-12	Course Duration: Semester-long
Fulfills Elective Requirement for Graduation	
Prerequisite: None	

### Course Description:

This course is the study and creation of how to develop the skills, knowledge and abilities needed to live and work in a global workplace.

The primary units of study include global commerce, international finance, trade relations, and global organizations.

The students will demonstrate learning through assignments, tests, quizzes, and projects.

### Course Recommendation:

This course is recommended for students who are interested in a global business career.

### Board Approved Primary Resource:

There is no additional text for this course.

### Additional Registration Information:

This course is delivered 100% online.

## Marketing 1

**BEM-100-00L** ► Online (LinK<sup>12</sup>)

Grades: 9-12	Course Duration: Semester-long
Fulfills Elective Requirement for Graduation	
Prerequisite: None	

### Course Description:

This course is the study of what it takes to market a product or service in today's business environment. Students learn about buyer behavior, marketing research principles, demand analysis, distribution, financing, pricing, and product management.

The students will demonstrate learning through assignments, tests, quizzes, and projects.

### Board Approved Primary Resource:

There is no additional text for this course.

### Additional Registration Information:

This course is delivered 100% online.

## Accounting 1

**BEF-100-00L** ► Online (LinK<sup>12</sup>)

Grades: 10-12	Course Duration: Semester-long
Fulfills Math Elective or Elective Requirement for Graduation	
Prerequisite: None	

### Course Description:

This course is the study of the mechanics of accounting as well as the opportunity to apply accounting concepts to real-world situations and make informed business decisions. The course covers the accounting cycle (debits and credits), journalizing, posting, trial balance, financial statements, and adjusting and closing the ledger.

Students will be equipped to work with Automated Accounting Online.

The students will demonstrate learning through projects, daily work, tests, and participation in class.

### Course Recommendation:

None

### Additional Registration Information:

This course is delivered 100% online. This course does not meet the requirements for NCAA approved core courses.

## Entrepreneurship

**BEB-130-00L** ► Online (LinK<sup>12</sup>)

Grades: 9-12	Course Duration: Semester-long
Fulfills Elective Requirement for Graduation	
Prerequisite: None	

### Course Description:

Students learn the basics of planning and launching their own successful business. Whether they want to start their own money-making business or create a non-profit to help others, this course helps students develop the core skills they need to be successful. They learn how to come up with new business ideas, attract investors, market their business, and manage expenses.

The primary units of study include the role of the entrepreneur, entrepreneurship as a career, economic principles, production & delivery, small business basics, business ideas & opportunities, defining your business, business organization and marketing basics.

The students will demonstrate learning through assignments, tests, quizzes, and projects.

### Board Approved Primary Resource:

There is no additional text for this course.

### Additional Registration Information:

This course is delivered 100% online.

## Personal Financial Management

**BEF-110-00L** ► Online (Link<sup>12</sup>)

Grades: 9-12	Course Duration: Semester-long
Fulfills Math Elective or Elective Requirement for Graduation	
Prerequisite: None	

### Course Description:

This course is the study of the financial world and how to become rational, competent decision makers; informed, effective consumers; wise savers and investors; and responsible citizens.

Primary units of study include banking creation and implementation, budget development and usage, comparison shop for a major purchase, credit (advantages and disadvantages), tax returns, loan and mortgage applications.

The students will demonstrate learning through various projects, simulations, daily work, tests, and participation in class.

### Course Recommendation:

This course is recommended for students who desire lifelong skills.

### Board Approved Primary Resource:

There is no additional text for this course.

### Additional Registration Information:

This course is delivered 100% online. This course does not meet the requirements for NCAA approved core courses.

## Sports & Entertainment Marketing

**BEM-110-00L** ► Online (Link<sup>12</sup>)

Grades: 9-12	Course Duration: Semester-long
Fulfills Elective Requirement for Graduation	
Prerequisite: None	

### Course Description:

In this course, you will have the opportunity to explore basic marketing principles and delve deeper into the multi-billion-dollar sports and entertainment marketing industry.

The primary units of study include basic principles of marketing, sports & entertainment marketing, principles of effective sports & entertainment marketing in the 21st century, diversity & demographics, event marketing, product marketing, sponsorships & endorsements, finances, careers in sports & entertainment marketing, and societal & cultural influences.

The students will demonstrate learning through assignments, tests, quizzes, and projects.

### Course Recommendation:

This course is recommended for students who are interested in careers in business and/or marketing.

### Board Approved Primary Resource:

There is no additional text for this course.

### Additional Registration Information:

This course is delivered 100% online.

## English 9

LAE-109-11L / LAE-109-12L ► Online (Link<sup>12</sup>)

Grades: 9	Course Duration: Year-long
Fulfills 9th Grade English Requirement for Graduation	
Prerequisite: None	

### Course Description:

This course is the study of language arts: reading, writing, speaking, listening, viewing, and media literacy.

The primary units of study include: reading, understanding, and responding to a variety of fiction, non-fiction and poetic texts; writing in narrative, analytical, descriptive and expository modes; learning research skills; communicating through class discussion; analyzing, evaluating, and producing different types of print, digital and multimodal media; and utilizing grammar and vocabulary skills.

Students will demonstrate learning in various ways, including writing assignments, and multimedia presentations, tests, quizzes, and discussions.

### Board Approved Primary Resource:

Holt McDougal Literature Grade 9  
2012 – Print  
ISBN: 978-0-547-61839-5

This course uses a variety of novels, texts, and excerpts from various resources. A full list of reading materials can be made available upon request.

### Additional Registration Information:

This course is delivered 100% online.

## English 10

LAE-110-11L / LAE-110-12L ► Online (Link<sup>12</sup>)

Grades: 10	Course Duration: Year-long
Fulfills 10th Grade English Requirement for Graduation	
Prerequisite: None	

### Course Description:

This course is the study of language arts - reading, writing, speaking, listening, viewing, and media literacy through an in-depth study of American literature. Teachers will use the Minnesota Department of Education's Common Core standards as well as the ACT college admission exam standards to guide and assess student learning.

The primary units of study include: reading, understanding, and responding to a variety of fiction, non-fiction and poetic texts; writing in expository and argumentative modes; practicing research skills and producing formal research writing; communicating through class discussion and speeches; analyzing, evaluating, and producing different types of print, digital and multimodal media; and utilizing grammar and vocabulary skills.

Students will demonstrate learning in various ways, including writing assignments, and multimedia presentations, tests, quizzes, and discussions.

### Board Approved Primary Resource:

Holt McDougal Literature Grade 10  
2012 - Print  
ISBN: 978-0-547-61841-8

This course uses a variety of novels, texts, and excerpts from various resources. A full list of reading materials can be made available upon request.

### Additional Registration Information:

This course is delivered 100% online. This course includes preparation for the MCA Reading test.

## English 11

LEA-111-00L ► Online (LinK<sup>12</sup>)

Grades: 11	Course Duration: Semester-long
Fulfills 11th Grade English Reading/Writing Non-Fiction Requirement for Graduation	
Prerequisite: None	

### Course Description:

This course is the study of nonfiction works and academic writing.

The primary units of study include writing researched-based argumentative and/or narrative essays, analyzing a variety of informational texts, vocabulary development, and grammar/mechanics,

Students will demonstrate their learning through various writing assignments, presentations, quizzes, and discussions.

### Board Approved Primary Resource:

This course uses a variety of novels, texts, and excerpts from various resources. A full list of reading materials can be made available upon request.

### Additional Registration Information:

This course is delivered 100% online.

## Advanced Placement (AP) English Language & Composition

LAE-A11-11L / LAE-A11-12L ► Online (LinK<sup>12</sup>)

Grades: 11	Course Duration: Year-long
Fulfills Reading/Writing Non-Fiction and Media Studies Requirement for Graduation	
Prerequisite: None	

### Course Description:

This course examines the rhetorical situation, a series of factors that influence the choices that skilled writers make to effectively convey complex ideas.

Students will analyze the writing of skillful authors and speakers. Students also craft their own sophisticated written works for a variety of purposes and intended audiences. Essays range from college-level research papers to creative expressions of personal values. In addition, students study advance vocabulary, grammar, and syntax so that they can enhance the messaging and artistry of their own writing.

Learning will be demonstrated through written assignments, discussions, presentations, quizzes, and tests.

### Course Recommendation:

Strong performance in English 10 or Honors 10 is recommended.

### Board Approved Primary Resource:

The Norton Field Guide to Writing with Readings  
2013 - Print  
ISBN 978-0-393-91957-8

This course uses a variety of novels, texts, and excerpts from various resources. A full list of reading materials can be made available upon request.

**Additional Registration Information:**

This course is delivered 100% online. Students who successfully complete AP Language and Composition and AP Literature and Composition meet the Rigorous Course Waiver for all required 11th and 12th grade courses. Summer homework may be required.

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**English 12****LAE-112-00L** ► Online (Link<sup>12</sup>)

Grades: 9-12	Course Duration: Semester-long
Fulfills 12th Grade English Reading/Writing Fiction Requirement for Graduation	
Prerequisite: None	

**Course Description:**

This course is the study and comparison of conflicts, both internal and external, in literature's various forms, including poetry, short stories, fiction, nonfiction, and drama.

The primary units of study include: reading, understanding, and responding to a variety of fiction; writing in persuasive, expository, and narrative modes; communicating through class discussion and presentations; and utilizing grammar and vocabulary skills.

Students will demonstrate learning through writing assignments, literary analysis, various projects and presentations, tests and quizzes, and discussions.

**Course Recommendation:**

This course is required for those students not taking AP Literature and Composition.

**Board Approved Primary Resource:**

This course uses a variety of novels, texts, and excerpts from various resources. A full list of reading materials can be made available upon request

**Additional Registration Information:**

This course is delivered 100% online.

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## Advanced Placement (AP) English Literature & Composition

**LAL-A12-11L / LAL-A12-12L** ► Online (LinK<sup>12</sup>)

Grades: 12	Course Duration: Year-long
Fulfills Reading/Writing Fiction and Media Studies Requirement for Graduation	
Prerequisite: None	

### Course Description:

This course is the study of literature, literary analysis and analytical writing comparable to a college/university course.

The primary units of study include several representative works of literary merit from various genres and periods. In addition, the course will include study in language structure and the writer's craft in fiction and poetry.

The students will demonstrate learning through a variety of analytical writing assignments, discussions, quizzes, tests and presentations.

### Course Recommendation:

Advanced Placement Language & Composition recommended, or strong performance in English 11.

### Board Approved Primary Resource:

This course uses a variety of novels, texts, and excerpts from various resources. A full list of reading materials can be made available upon request

### Additional Registration Information:

This course is delivered 100% online. Students who successfully complete AP Literature and Composition and AP Language and Composition meet the Rigorous Course Waiver for all required 11th and 12th grade English Language Arts courses.

## Creative Writing

**LAW-100-00L** ► Online (LinK<sup>12</sup>)

Grades: 10-12	Course Duration: Semester-long
Fulfills English/Media Studies or Elective Requirement for Graduation	
Prerequisite: None	

### Course Description:

This course is the study of creative writing and its processes.

The primary units of study include writing creatively for different genres, audiences, and purposes, including digital and print publication, as well as media law and ethics.

The students will demonstrate learning through tests and quizzes, compositions, the execution of projects, the creation of a digital portfolio, and a publication.

### Board Approved Primary Resource:

This course uses a variety of novels, texts, and excerpts from various resources. A full list of reading materials can be made available upon request.

### Additional Registration Information:

This course is delivered 100% online.



## Journalism

**LAJ-120-00L** ► Online (Link<sup>12</sup>)

Grades: 9-12	Course Duration: Semester-long
Fulfills English/Media Studies or Elective Requirement for Graduation	
Prerequisite: None	

### Course Description:

This course is the study and creation of print, digital, and multimodal media with a focus on scholastic journalism.

The primary units of study include interviewing, story writing and editing, photography and layout principles, design software, production, and media law and ethics.

The students will demonstrate learning through tests, quizzes, projects, various types of written stories, and production of a newspaper.

### Course Recommendation:

This course is recommended for students who are interested in journalism, page layout, and design of a publication, both digitally and in print.

### Board Approved Primary Resource:

This course uses a variety of novels, texts, and excerpts from various resources. A full list of reading materials can be made available upon request.

### Additional Registration Information:

This course does not meet requirements for NCAA approved core courses.

## Mythology & Folklore

**LAZ-100-00L** ► Online (Link<sup>12</sup>)

Grades: 9-12	Course Duration: Semester-long
Fulfills Elective Requirement for Graduation	
Prerequisite: None	

### Course Description:

This course is the study of mythology and different types of folklore.

The primary units of study include warrior women, heroic myths, myths of the world, comparative and modern myths and legends.

The students will demonstrate learning in various ways, including writing assignments, speeches and multimedia presentations, test and quizzes and discussions.

### Board Approved Primary Resource:

This course uses a variety of novels, texts, and excerpts from various resources. A full list of reading materials can be made available upon request.

### Additional Registration Information:

This course is delivered 100% online.

## Public Speaking

**LAS-100-00L** ► Online (LinK<sup>12</sup>)

Grades: 10-12	Course Duration: Semester-long
Fulfills Speech Requirement for Graduation	
Prerequisite: None	

### Course Description:

This course is a semester course in speech and communication skills, emphasizing formal public speaking.

The primary units of study include the communication process, audience analysis, listening skills, discussion skills, and public speaking.

Students will demonstrate learning through speeches, written assignments, presentations, tests and quizzes, and discussion.

### Course Recommendation:

This class is recommended for any student who wants to gain confidence as a public speaker or hopes to improve oral presentation and general communication skills.

### Board Approved Primary Resource:

This course uses a variety of novels, texts, and excerpts from various resources. A full list of reading materials can be made available upon request

### Additional Registration Information:

This course is delivered 100% online.

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Have you ever thought about working in the medical field? Do your MCIS career inventory results lead you towards health care? Consider taking the new Certified Nursing Assistant course semester 2 in 2023.

This course gives multiple opportunities for students who may be considering nursing, pre-med, general experience and interest exploration

This course is designed to expose students to the possibilities in today's workforce in the healthcare field. It will help students understand their interests and talents, explore a potential career field for the future and further postsecondary learning and training opportunities.

Certified Nursing Assistants (CNAs) are healthcare professionals who provide intimate, hands-on healthcare to patients in medical settings under the supervision of a Registered Nurse (RN), or Licensed Practical Nurse (LPN). CNAs assist patients with bathing, dressing and any other basic activities involved in daily life.

For more detailed information about the Certified Nursing Assistant career, please visit: <https://bre.is/Fqe8g422>

## Certified Nursing Assistant

**SCZ-140-00L** ► Online and In-Person (Link<sup>12</sup>)

Grades: 11-12	Course Duration: Semester-long
Fulfills Elective Requirement for Graduation	
Prerequisite: None	

### Course Description:

This course is preparation for the Minnesota nursing assistant certification. Students will develop the skills to address patients' basic needs and apply their skills in a clinical setting. Certified Nursing Assistants are in high demand and provide an entry into all aspects of health care.

The primary units of study include basic nursing skills, personal care skills for a resident, mental health and social service needs for a resident, care of cognitively impaired residents, basic restorative services, and residents' rights.

### Board Approved Primary Resource:

Minnesota Department of Health approved curriculum

### Additional Registration Information:

The coursework is delivered 100% online. The supervised skills training portion is delivered with a hands-on and laboratory experience of 16-20 hours at senior living facility. A detailed schedule of required lab dates will be provided at the beginning of the course. Upon successful completion, the student is eligible to take the state Nursing Assistant Registry Exam. In order to participate in the supervised skills training, students must have all CDC required vaccinations, a negative tuberculosis (TB) test and a Minnesota Department of Human Services background study (including fingerprinting). A fee may be requested for any materials, background study or exams taken by the student. Financial assistance will be available on a case-by-case basis. Students may purchase their own scrubs or check out scrubs from the Link<sup>12</sup> office.

## Intermediate Algebra

MAA-100-11L / MAA-100-12L ► Online (Link<sup>12</sup>)

Grades: 9-12	Course Duration: Year-long
Fulfills Math Requirement for Graduation	
Prerequisite: Algebra 1 (8th Grade)	

### Course Description:

This course is the study of linear and nonlinear functions, and their applications.

The primary units of study include simplifying expressions, equations and inequalities in one and two variables; number and math properties; basic mathematical operations; absolute value; formula manipulation; estimation; fractions, ratios, proportions, and percents; graphing in detail and applications; systems of equations; relations and functions; rational, irrational, and radical equations; basic operations with, and factoring polynomials; quadratic equations; rational expressions; and logic and reasoning.

Students will demonstrate learning through unit assessments and other summative assessments.

### Board Approved Primary Resource:

There is no additional text for this course.

### Additional Registration Information:

Operating a calculator is an integral part of this course. The recommended calculator is a TI-30XII or higher. A limited number of calculators will be available for students to check out for the entire year.

## Geometry

MAG-100-11L / MAG-100-12L ► Online (Link<sup>12</sup>)

Grades: 9-12	Course Duration: Year-long
Fulfills Math Requirement for Graduation	
Prerequisite: Intermediate Algebra	

### Course Description:

This course is the study of plane, solid, and coordinate geometry as they relate to both abstract mathematical concepts as well as real-world problem modeling.

The primary units of study include congruence and similarity, points, lines, and angles; triangles; right triangles; quadrilaterals and other polygons; circles; coordinate geometry; two- and three-dimensional solids (length, perimeter, area, circumference, surface area, and volume); geometric constructions; symmetry; the use of transformations; and non-Euclidean geometries.

Students will demonstrate learning through unit assessments and other summative assessments.

### Board Approved Primary Resource:

There is no additional text for this course.

### Additional Registration Information:

Operating a calculator is an integral part of this course. The recommended calculator is a TI-30XII or higher. A limited number of calculators will be available for students to check out for the entire year.

## Honors Geometry

**MAG-H00-11L / MAG-H00-12L** ► Online (Link<sup>12</sup>)

Grades: 9-12	Course Duration: Year-long
Fulfills Math Requirement for Graduation	
Prerequisite: Honors Algebra 1 (8th Grade) or Intermediate Algebra and Instructor Recommendation	

### Course Description:

This course is the study of geometric concepts in various contexts. Students use visualizations, spatial reasoning, and geometric modeling to solve problems.

The primary units of study include points, lines, and angles; triangles; right triangles; quadrilaterals and other polygons; circles; coordinate geometry; three-dimensional solids; geometric constructions; symmetry; the use of transformations; and non-Euclidean geometries.

Students will demonstrate learning through unit assessments and other summative assessments.

### Board Approved Primary Resource:

There is no additional text for this course.

### Additional Registration Information:

This course is delivered 100% online. Operating a calculator is an integral part of this course. The recommended calculator is a TI-30XII or higher. A limited number of calculators will be available for students to check out for the entire year.

## Algebra 2

**MAA-220-11L / MAA-220-12L** ► Online (Link<sup>12</sup>)

Grades: 9-12	Course Duration: Year-long
Fulfills Math Requirement for Graduation	
Prerequisite: Intermediate Algebra & Geometry	

### Course Description:

This course is the study of families of functions including linear and nonlinear functions, and data analysis.

The primary units of study include functions and their graphs, quadratic functions, inverse functions, advanced polynomial functions, sequences, series, and conic sections. Students are introduced to rational, radical, exponential, and logarithmic functions; sequences and series; data analysis; and matrices.

Students will demonstrate learning through unit assessments and other summative assessments.

### Board Approved Primary Resource:

There is no additional text for this course.

### Additional Registration Information:

Operating a calculator is an integral part of this course. The recommended calculator is a TI-83+ or TI-84. A limited number of calculators will be available for students to check out for the entire year. This course is delivered 100% online.

## Honors Algebra 2

MAA-H20-11L / MAA-H20-12L ► Online (Link<sup>12</sup>)

Grades: 9-12	Course Duration: Year-long
Fulfills Math Requirement for Graduation	
Prerequisite: Geometry and Honors Algebra 1 (8th Grade) or Instructor Recommendation	

### Course Description:

This course is the study of functions and data analysis. Students extend their knowledge and understanding by solving open-ended problems and thinking critically.

The primary units of study include functions and their graphs, quadratic functions, inverse functions, advanced polynomial functions, sequences, series, and conic sections. Students are introduced to rational, radical, exponential, and logarithmic functions; sequences and series; data analysis; and matrices.

Students will demonstrate learning through unit assessments and other summative assessments.

### Additional Registration Information:

Operating a calculator is an integral part of this course. The recommended calculator is a TI-83+ or TI-84. A limited number of calculators will be available for students to check out for the entire year.

## Pre-Calculus

MAC-100-11L / MAC-100-12L ► Online (Link<sup>12</sup>)

Grades: 9-12	Course Duration: Year-long
Fulfills Math Requirement for Graduation	
Prerequisite: Geometry and Algebra 2	

### Course Description:

This course is the study of functions, series, limits and other concepts as an introduction to calculus.

The primary units of study include trigonometric, exponential, logarithmic, quadratic, linear, and rational functions, series, sequences, limits, vectors and an introduction to differential and integral calculus.

Students will demonstrate learning through unit assessments and other summative assessments.

### Course Recommendation:

This course is recommended for students who are interested in continuing their study of mathematics, those who may be interested in taking calculus, and as preparation for college level mathematics courses.

### Board Approved Primary Resource:

Pre-calculus with Limits: A Graphing Approach  
Ron Larson - Robert P. Hostetler - Bruce H. Edwards - David C. Falvo - Houghton Mifflin – 2005 – Print  
ISBN: 9780618394784

### Additional Registration Information:

This course is delivered 100% online. Operating a calculator is an integral part of this course. The recommended calculator is a TI-83+ or TI-84. A limited number of calculators will be available for students to check out for the entire year.

## Calculus

MAC-200-11L / MAC-200-12L ► Online (Link<sup>12</sup>)

Grades: 9-12	Course Duration: Year-long
Fulfills Math or Elective Requirement for Graduation	
Prerequisite: Pre-Calculus and Trigonometry	

### Course Description:

This course is the comprehensive study of differential and integral calculus concepts, including limits, derivative and integral computation, linearization, Riemann sums, fundamental theorem of calculus and differential equations,

The primary units of study include graph analysis, linear motion, average value, area, volume, and growth and decay models.

The students will demonstrate learning through assignments, tests, quizzes, projects and discussions.

### Course Recommendation:

This course is recommended for students who want to pursue careers that require advanced math.

### Board Approved Primary Resource:

There is no additional text for this course.

### Additional Registration Information:

This course is delivered 100% online. An online calculator will be available for use for students taking this course.

## Advanced Placement (AP) Calculus AB

MAC-A00-11L / MAC-A00-12L ► Online (Link<sup>12</sup>)

Grades: 9-12	Course Duration: Year-long
Fulfills Math or Elective Requirement for Graduation	
Prerequisite: Pre-Calculus and Trigonometry	

### Course Description:

This course is the study of how things change and accumulate while providing a framework which scientists, engineers and economists use for modeling dynamic systems in order to make predictions and calculate summations within those systems.

The primary units of study include limits and their properties, differentiation, integration, The Fundamental Theorem of Calculus, differential equations, and slope fields.

The students will demonstrate learning through quizzes, tests and voluntary participation in the AP Calculus AB test in May.

### Board Approved Primary Resource:

There is no additional text for this course.

### Additional Registration Information:

This course is delivered 100% online. Operating a graphing calculator is an integral part of this course. Because of students' desires to complete homework assignments in the evening, students benefit from having a calculator equivalent to a TI-83+ or TI-84. A limited number of calculators will be available for students to check out for the entire year.



## Consumer Math

**MAZ-100-11L / MAZ-100-12L** ► Online (Link<sup>12</sup>)

Grades: 9-12	Course Duration: Year-long
Fulfills Elective Requirement for Graduation	
Prerequisite: None	

### Course Description:

This course is the comprehensive study of how to use money in everyday life.

The primary units of study include jobs, wages, paychecks, taxes, insurance, and spending money.

The students will demonstrate learning through assignments, tests, and quizzes.

### Board Approved Primary Resource:

There is no additional text for this course.

### Additional Registration Information:

This course is delivered 100% online. This course does not meet the requirements for NCAA approved core courses.

## Probability and Statistics

**MAS-100-00L** ► Online (Link<sup>12</sup>)

Grades: 11-12	Course Duration: Semester-long
Fulfills Elective Requirement for Graduation	
Prerequisite: Completed Three Years of High School Math	

### Course Description:

This course is the study of collecting, analyzing, and drawing conclusions from data.

The primary units of study include counting methods, probability, descriptive statistics, graphs of data, the normal curve, statistical inference, and linear regression.

The students will demonstrate learning through discussion boards, assignments, tests, and quizzes.

### Board Approved Primary Resource:

There is no additional text for this course.

### Additional Registration Information:

This course is delivered 100% online.

## Advanced Placement (AP) Statistics

MAS-A00-11L / MAS-A00-12L ► Online (Link<sup>12</sup>)

Grades: 9-12	Course Duration: Year-long
Fulfills Math or Elective Requirement for Graduation	
Prerequisite: Algebra 2	

### Course Description:

This course is the study of collecting, analyzing, and drawing conclusions from data.

The primary units of study include exploring data by observing patterns and departures from patterns, planning a study by deciding what and how to measure, anticipating patterns by producing models using probability and simulations, and using statistical inference by confirming models.

The students will demonstrate learning through quizzes, labs, tests and the AP Statistics test in May.

### Board Approved Primary Resource:

There is no additional text for this course.

### Additional Registration Information:

This course is delivered 100% online. Operating a graphing calculator is an integral part of this course. Because of students' desires to complete homework assignments in the evening, students benefit from having a calculator equivalent to a TI-83+ or TI-84. A limited number of calculators will be available for students to check out for the entire year. Calculators are allowed on the entire AP exam.

## Advanced Placement (AP) Calculus BC

MAC-A20-11L / MAC-A20-12L ► Online (Link<sup>12</sup>)

Grades: 9-12	Course Duration: Year-long
Fulfills Elective Requirement for Graduation	
Prerequisite: Advanced Placement Calculus AB	

### Course Description:

This course is the continued study of calculus concepts including those found on the AP Calculus BC exam and an introduction to multivariable calculus.

The primary units of study include advanced applications and techniques of integration, convergence and divergence of infinite sequences and series, extending properties of calculus such as differentiation and integration to a broader variety of functions and relations including conic sections, parametric equations, vector-valued functions, the polar coordinate system, and functions with multiple variables.

The students will demonstrate learning through quizzes, tests and voluntary participation in the AP Calculus BC test in May.

### Board Approved Primary Resource:

There is no additional text for this course.

### Additional Registration Information:

This course is delivered 100% online. Operating a graphing calculator is an integral part of this course. Because of students' desires to complete homework assignments in the evening, students benefit from having a calculator equivalent to a TI-83+ or TI-84. A limited number of calculators will be available for students to check out for the entire year.

## Physical Education

PEP-150-00L ► Online (LinK<sup>12</sup>)

Grades: 9-12	Course Duration: Semester-long
Fulfills Elective Requirement for Graduation	
Prerequisite: None	

### Course Description:

This course is the study of the fundamental components and principles of fitness, skills to various movement activities and the understanding of the fundamentals of Meaningful Physical Education.. The primary units of study include: safety guidelines, proper technique, various forms of dance, components of fitness and exercise principles such as finding your Target Heart Rate and FITT (frequency, intensity, time and type). The students will demonstrate learning through assignments, quizzes, projects and discussions, as well as weekly documentation of heart rate monitored physical exercise. This course is designed to help move students toward confidently and competently caring for their physical and mental wellness by finding meaningful and enjoyable activities they can do for their lifetime.

### Board Approved Primary Resource:

There is no additional text for this course.

### Additional Registration Information:

This course is delivered 100% online. This course has an exercise component included. Each student is required to complete a minimum of 90 minutes of exercise each week. Exercise will be recorded on a fitness log and documented using a Heart Rate Monitor that will be provided. Data will be downloaded and submitted to the instructor on a weekly basis.

## Health Issues

PEH-100-00L ► Online (LinK<sup>12</sup>)

Grades: 9-12	Course Duration: Semester-long
Fulfills Elective Requirement for Graduation	
Prerequisite: None	

### Course Description:

The students will be expected to understand the concepts related to food and nutrients in order to plan a healthy meal and become a healthier individual.

Students will examine characteristics of mental health including mental illnesses and healthy coping strategies. The Family Life unit involves healthy relationships, reasons to postpone sexual activity and prevention of pregnancy and sexually transmitted infections. Students will examine the risks of commonly abused drugs; Students will demonstrate proper CPR and AED techniques.

### Board approved Primary Resource:

Lifetime Health

David P Friedman - Curtis C Stine - Shannon Whalen - Holt, Rinehart and Winston – 2004 – Print  
ISBN: 9780030646140

American Red Cross participants manual  
Stay Well 2016  
ISBN: 978-1-58480-665-3

### Board Approved Primary Resource:

There is no additional text for this course.

### Additional Registration Information:

This course is delivered 100% online.



## Physical Science

**SCZ-109-11L / SCZ-109-12L** ► Online (Link<sup>12</sup>)

Grades: 9	Course Duration: Year-long
Fulfills Physical Science Requirement for Graduation	
Prerequisite: None	

### Course Description:

This course is the study of the fundamental laws of physics and chemical concepts that govern both our interactions with the physical world and outer space.

The units that pertain to Chemistry include the introduction to scientific methods, matter, thermodynamics, atomic structure, chemical bonds, the periodic table, chemical and nuclear reactions. The units that pertain to Physics include motion, forces, energy, waves, and electricity & magnetism. Earth science standards will be emphasized where appropriate with connections to geology, climatology and astronomy.

The students will demonstrate learning through assignments, tests, quizzes, and projects.

### Board Approved Primary Source:

There is no additional text for this course.

### Additional Registration Information:

This course is delivered 100% online.

## Biology

**SCB-100-12L / SCB-100-12L** ► Online (Link<sup>12</sup>)

Grades: 10-12	Course Duration: Year-long
Fulfills Biology Requirement for Graduation	
Prerequisite: None	

### Course Description:

This course is the study of the living organisms in this world. Biology focuses on gaining a deeper understanding of life by studying: cellular processes, structure, and function in living systems; interdependence of organisms/ biological communities in ecosystems; genetics and expression of traits in individuals; variation within a species; history and diversity of life/ evolution in living systems/ creation, and human interactions with living systems.

The primary units of study include: Science of Biology, Chemistry of Life, Structure and Function of Cells, Structure and Function of DNA, Cell Division, Genetics, Biotechnology, Evolution, Microbiology, Homeostasis of Living Systems, Ecology, Engineering.

The students will demonstrate learning through cooperative learning within experimental lab investigations; formative and summative assessments; and project-based learning that utilizes problem solving and complex thinking skills.

### Board Approved Primary Resource:

There is no additional text for this course.

### Additional Registration Information:

This course is delivered 100% online.

## Honors Biology

SCB-H00-11L / SCB-H00-12L ► Online (Link<sup>12</sup>)

Grades: 9-12	Course Duration: Year-long
Fulfills Biology Requirement for Graduation	
Prerequisite: None	

### Course Description:

This course is the study of the living organisms in this world. Biology focuses on gaining a deeper understanding of life by studying: cellular processes, structure, and function in living systems; interdependence of organisms/ biological communities in ecosystems; genetics and expression of traits in individuals; variation within a species; history and diversity of life/ evolution in living systems/ creation, and human interactions with living systems.

The primary units of study include: Science of Biology, Chemistry of Life, Structure and Function of Cells, Structure and Function of DNA, Cell Division, Genetics, Biotechnology, Evolution, Microbiology, Homeostasis of Living Systems, Ecology, Engineering.

The students will demonstrate learning through cooperative learning within experimental lab investigation; formative and summative assessments; and project-based learning that utilizes problem solving and complex thinking skills.

### Course Recommendation:

This course is designed for the highly motivated Science student. Students best suited for this class should have excelled in previous science classes.

### Board Approved Primary Resource:

There is no additional text for this course.

### Additional Registration Information:

This course is delivered 100% online.

## Advanced Placement (AP) Biology

SCB-A00-11L / SCB-A00-12L ► Online (Link<sup>12</sup>)

Grades: 9-12	Course Duration: Year-long
Fulfills Biology Requirement for Graduation	
Prerequisite: None	

### Course Description:

This course guides students to a deeper understanding of biological concepts including the "4 Big Ideas": Evolution, Energetics, Information Storage & Transmission and Systems Interactions.

The primary units of study include: Chemistry of Life, Cell Structure & Function, Cellular Energetics, Cell Communication & Cell Cycle, Heredity, Gene Expression & Regulation, Natural Selection and Ecology.

The students will demonstrate learning through class participation, group projects, individual projects, labs, homework, quizzes and tests.

### Course Recommendation:

This course is designed to be the equivalent of a college introductory biology course usually taken by Biology majors during their first year.

### Board Approved Primary Resource:

There is no additional text for this course.

### Additional Registration Information:

This course is delivered 100% online. This course meets the rigorous course waiver for the Biology requirement. Summer homework may be required. In addition to the units of study, the AP Biology curriculum has "7 Significant Practices" that will be covered over the course of the year. There is a SIGNIFICANT emphasis on quantitative skills and application of mathematical methods during the course and on the AP exam in May.

## Chemistry

SCC-100-11L / SCC-100-12L ► Online (Link<sup>12</sup>)

Grades: 9-12	Course Duration: Year-long
Fulfills Chemistry Option for Graduation	
Prerequisite: Geometry	

### Course Description:

This course is the study of the elements that make-up our world and how they can be combined, arranged and rearranged to modify a substance or create something new. Students will develop skills to answer many types of scientific questions.

The primary units of study include states of matter, bonding, the periodic table, atomic structure, chemical reactions and stoichiometry.

The students will demonstrate learning through laboratory work, worksheets, quizzes, and tests.

### Course Recommendation:

This course is recommended for students who need to fulfill the Chemistry requirement for graduation.

### Board Approved Primary Resource:

There is no additional text for this course.

### Additional Registration Information:

This course is delivered 100% online.

## Honors Chemistry

SCC-H00-11L / SCC-H00-12L ► Online (Link<sup>12</sup>)

Grades: 9-12	Course Duration: Year-long
Fulfills Chemistry Option for Graduation	
Prerequisite: Geometry	

### Course Description:

This course is the study of the elements that make-up our world and how they can be combined, arranged and rearranged to modify a substance or create something new. Students will develop skills to answer many types of scientific questions.

The primary units of study include states of matter, bonding, the periodic table, atomic structure, chemical reactions and stoichiometry.

The students will demonstrate learning through laboratory work, research projects, discussion boards, worksheets, quizzes, and tests.

### Course Recommendation:

This course is recommended for students who have excelled in previous science classes.

### Board Approved Primary Resource:

There is no additional text for this course.

### Additional Registration Information:

This course is delivered 100% online.



## Physics

SCP-100-11L / SCP-100-12L ► Online (Link<sup>12</sup>)

Grades: 11-12	Course Duration: Year-long
Fulfills Physics Option for Graduation	
Prerequisite: Algebra 2	

### Course Description:

This course is the study of matter, energy and the fundamental laws that govern our physical world.

The primary units of study include motion, forces, momentum, energy, electricity, magnetism, waves, sound, optics, relativity, and quantum theory.

The students will demonstrate learning through unit tests, quizzes, projects, labs, and homework problems.

### Course Recommendation:

This course is recommended for students who excel in Science and have strong problem-solving skills. This course, in conjunction with Chemistry, meets the rigorous course waiver for the Physical Science requirement.

### Board Approved Primary Resource:

There is no additional text for this course.

### Additional Registration Information:

This course is delivered 100% online. Operating a scientific calculator is an integral part of this course. Because of students' desires to complete homework assignments in the evening, students benefit from having a scientific calculator. A limited number of scientific calculators will be available for students to check out for the entire year.

## Advanced Placement (AP) Physics 1

SCP-A00-11L / SCP-A00-12L ► Online (Link<sup>12</sup>)

Grades: 9-12	Course Duration: Year-long
Fulfills Physics Option for Graduation	
Prerequisite: Algebra 2	

### Course Description:

This course is the study of the main principles of college physics and emphasizes the development of conceptual understanding and problem-solving ability using high-level math skills.

The primary units of study include Newtonian Mechanics (including rotational dynamics and angular momentum), Work, Energy, Power, Mechanical Waves and Sound, Circuits, and Magnetism.

The students will demonstrate learning through tests, quizzes, homework, and hands-on labs.

### Course Recommendation:

It is recommended that students have a strong mathematics background and have taken Algebra 2. Students will need a quad-ruled laboratory notebook.

### Board Approved Primary Resource:

There is no additional text for this course.

### Additional Registration Information:

This course, in conjunction with Chemistry/H. Chemistry/AP Chemistry, meets the rigorous course waiver for the Physical Science requirement. This course is delivered 100% online.

## Anatomy & Physiology 1

**SCN-100-00L** ► Online (Link<sup>12</sup>)

Grades: 9-12	Course Duration: Semester-long
Fulfills Elective Requirement for Graduation	
Prerequisite: Biology (any level) or concurrently enrolled in biology	

### Course Description:

This course is the study of the human body and how it functions. Students will receive a general introduction to life functions, the terminology, and an overall review of human development and body processes.

The primary units of study include learning about cells, tissues and membranes, special senses, skeletal system, muscular system, central nervous system, and endocrine system.

This course fulfills the elective requirement for graduation.

### Board Approved Primary Resource:

There is no additional text for this course.

### Additional Registration Information:

This course is delivered 100% online.

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## Anatomy & Physiology 2

**SCN-200-00L** ► Online (Link<sup>12</sup>)

Grades: 9-12	Course Duration: Semester-long
Fulfills Elective Requirement for Graduation	
Prerequisite: Biology (any level) or concurrently enrolled in biology	

### Course Description:

This course is the study of the human body and how it functions. This course also includes Infection Control and Standard Precautions, which emphasizes the importance of maintaining health and safety in the health care work environment.

The primary units of study include learning about the heart, circulation, lymphatic system, respiratory system, digestive systems, excretory system, and reproductive system.

This course fulfills the elective requirement for graduation.

### Board Approved Primary Resource:

There is no additional text for this course.

### Additional Registration Information:

This course is delivered 100% online.

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## Astronomy

SCA-100-00L ► Online (LinK<sup>12</sup>)

Grades: 10-12	Course Duration: Semester-long
Fulfills Elective Requirement for Graduation	
Prerequisite: None	

### Course Description:

This course is the study of astronomy, including its history and development, basic scientific laws of motion and gravity, the concepts of modern astronomy, and the methods used by astronomers to learn more about the universe.

The primary units of study include the solar system, galaxies, sun and stars.

The students will demonstrate learning through discussions, labs, quizzes, and tests.

### Board Approved Primary Resource:

This course is delivered 100% online.

## Civics

**SCC-100-00L** ► Online (Link<sup>12</sup>)

Grades: 9-12	Course Duration: Semester-long
Fulfills Civics Requirement for Graduation	
Prerequisite: None	

### Course Description:

This course is the study of the foundations of our American government and their modern applications.

The primary units of study include the early foundations of the United States, the creation of our government institutions, the rights and responsibilities of American citizenship, the American political process, and America's early stages of foreign relations.

The students will demonstrate learning through assignments, tests, quizzes, and projects.

### Board Approved Primary Resource:

Civics and U.S. History  
McGraw Hill 2014  
ISBN: 978-0-02-134638-7

### Additional Registration Information:

This course is delivered 100% online.

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## Geography

**SSG-100-00L** ► Online (Link<sup>12</sup>)

Grades: 9-12	Course Duration: Semester-long
Fulfills Geography Requirement for Graduation	
Prerequisite: None	

### Course Description:

This course is the study of analyzing geographic data to understand patterns of population, the development and spread of culture, rural and urban development, and human-environmental interaction. Students will use geographical skills they learn to examine challenges present in the world in conjunction with critical thinking to generate problem solving ideas.

The primary units of studies incorporate map skills, geospatial technologies, demographics, land use and human-environmental interaction and impact in different regions of the world.

The students will demonstrate learning through class participation, written assignments, student created projects, as well as tests and quizzes.

### Board Approved Primary Resource:

There is no additional text for this course.

### Additional Registration Information:

This course is delivered 100% online.

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## Advanced Placement (AP) Human Geography

**SSG-A00-11L / SSG-A00-12L** ► Online (Link<sup>12</sup>)

Grades: 9-12	Course Duration: Year-long
Fulfills Geography Requirement for Graduation	
Prerequisite: None	

### Course Description:

This course focuses on analyzing the geographic information and patterns of population, culture, rural and urban development, and globalization.

The primary units of study include geography as a discipline, population, cultural geography, political geography, industrial land use, rural land use, urban land use and globalization.

The students will demonstrate learning through unit tests, quizzes, written and oral reports, maps, diagrams and class discussion.

### Board Approved Primary Resource:

The Cultural Landscape AP Edition  
James M. Rubenstein, 11th Edition  
ISBN: 10:0-13-292658-X

### Additional Registration Information:

This course meets the Rigorous Course Waiver for the Geography course.

## United States History

**SSH-100-11L / SSH-100-12L** ► Online (Link<sup>12</sup>)

Grades: 9-12	Course Duration: Year-long
Fulfills United States History Requirement for Graduation	
Prerequisite: None	

### Course Description:

This course is the study of the history of the United States from the beginning to present times.

The primary units of study include westward expansion, the Civil War, industrial growth, immigration, the development of the U.S. as a global player, the World Wars, the Cold War, Civil Rights movement, and the modern era.

The students will demonstrate their learning by tests, projects, presentations, and a comprehensive semester final.

### Board Approved Primary Resource:

The American Pageant: A History of the American People (Updated 16th Edition  
Kennedy & Cohen, Cengage Learning 2016, Print  
ISBN: 978-1-337-09016-2

### Additional Registration Information:

This course is delivered 100% online.

## Advanced Placement (AP) United States History

**SSH-A00-11L / SSH-A00-12L** ► Online (LinK<sup>12</sup>)

Grades: 10-12	Course Duration: Year-long
Fulfills United States History Requirement for Graduation	
Prerequisite: None	

### Course Description:

This course is the study of United States history from 1491 to present. AP U.S. History is designed to be the equivalent of a two-semester introductory college or university U.S. history course. In AP U.S. History students investigate significant events, individuals, developments, and processes in nine historical periods. Students develop and use the same skills, practices, and methods employed by historians: analyzing primary and secondary sources; making historical comparisons; utilizing reasoning about contextualization, causation, and continuity and change over time; and developing historical arguments. The course also provides seven themes that students explore throughout the course in order to make connections among historical developments in different times and places: American and national identity; migration and settlement; politics and power; work, exchange, and technology; America in the world; geography and the environment; and culture and society.

The primary units of study include the founding, building, and testing of a new nation, forging an industrial society, struggling for justice at home and abroad, and making modern America.

The students will demonstrate learning through multiple-choice, Long Essay Questions, Data Based Questions, and Short Answer Questions.

### Board Approved Primary Resource:

None

### Additional Registration Information:

This course is delivered 100% online. This course meets the Rigorous Course Waiver for United States History course. Summer homework may be required. Students should be able to read a college-level textbook and write grammatically correct, complete sentences.

## World History

**SSH-120-11L / SSH-120-12L** ► Online (LinK<sup>12</sup>)

Grades: 9-12	Course Duration: Year-long
Fulfills World History Requirement for Graduation	
Prerequisite: None	

### Course Description:

This course is the study of world history from prehistoric to contemporary times.

The primary units of study include interpreting statistical data from maps, charts and graphs, the achievements of civilizations in the fields of science, technology and the arts.

The students will demonstrate learning through assignments, tests, quizzes, projects and discussions.

### Board Approved Primary Resource:

World History and Geography  
McGraw-Hill Education, 2018, Print  
ISBN: 978-0-07-668386-4

### Additional Registration Information:

This course is delivered 100% online.

## Advanced Placement (AP) European History

SSH-A30-11L / SSH-A30-12L ► Online (Link<sup>12</sup>)

Grades: 10-12	Course Duration: Year-long
Fulfills World History Requirement for Graduation	
Prerequisite: None	

### Course Description:

This course is the study of major world events from 1450 to the present from a Euro-centric viewpoint.

The primary units of study include the Renaissance and Reformation, Absolutism, Scientific Revolution, consolidation of the large nation-states, Imperialism, the world wars, Marxism and the communist world, the Cold War and superpowers, and the collapse of Communism.

The students will demonstrate learning through unit multiple-choice tests, and a variety of essays including Long Essay Questions, Document Based Questions, and Short Answer Questions.

### Board Approved Primary Resource:

None

### Additional Registration Information:

This course is delivered 100% online. This course meets the Rigorous Course Waiver for the World History course.

## Advanced Placement (AP) World History: Modern

SSH-A40-11L / SSH-A40-12L ► Online (Link<sup>12</sup>)

Grades: 10-12	Course Duration: Year-long
Fulfills World History Requirement for Graduation	
Prerequisite: None	

### Course Description:

This course is the study of world history from 1200CE to the present.

The primary units of study include early river civilizations, classical civilizations, the rise and spread of major world religions, hemispheric exchange, imperialism, colonialism, both world wars, and globalization.

The students will demonstrate learning through chapter tests, essays, and semester final exams.

### Board Approved Primary Resource:

None

### Additional Registration Information:

This course is delivered 100% online. This course meets the Rigorous Course Waiver for the World History course.



## Introduction to Economics

**SSE-100-00L** ► Online (LinK<sup>12</sup>)

Grades: 10-12	Course Duration: Semester-long
Fulfills Economics Requirement for Graduation	
Prerequisite: None	

### Course Description:

This course is the study of basic economic concepts: how markets work and the relationship between money, banking, finance, and measurements of economic performance. In addition, the course will examine our government's role in the economy while also examining the complexities of a global economy.

The primary units of study include personal finance, the study of markets, the dynamics of money, banking and finance, and the global economy.

The students will demonstrate learning through assignments, tests, quizzes, and projects.

### Board Approved Primary Resource:

There is no additional text for this course.

### Additional Registration Information:

This course is delivered 100% online.

## Advanced Placement (AP) Macroeconomics

**SSE-A00-00L** ► Online (LinK<sup>12</sup>)

Grades: 10-12	Course Duration: Semester-long
Fulfills Economics Requirement for Graduation	
Prerequisite: None	

### Course Description:

This course is the study of the principles of economics that apply to an economic system as a whole. The primary units of study include learning about performance measures, economic growth, and international economics. A special emphasis is placed on the analysis of current economic problems and the presentation of several different schools of economic thought. This course prepares students for further study in business, history, and political science.

The students will demonstrate learning through assignments, tests, quizzes, and projects.

### Board Approved Primary Resource:

There is no additional text for this course.

### Additional Registration Information:

This course is delivered 100% online. This course meets the Rigorous Course Waiver for Economics.

## Advanced Placement (AP) Microeconomics

**SSE-A20-00L** ► Online (LinK<sup>12</sup>)

Grades: 10-12	Course Duration: Semester-long
Fulfills Economics Requirement for Graduation	
Prerequisite: None	

### Course description:

This course is the study of the principles of economics that apply to the functions of individual decision makers, both consumers and producers, within the economic system.

The primary units of study include the nature and functions of product markets and of the role of government in promoting greater efficiency and equity in the economy. This course prepares students for further study in business, history, and political science.

The students will demonstrate learning through assignments, tests, quizzes, and projects.

### Course Recommendation:

Students wishing to pursue a postsecondary degree in business or economics should take this course.

### Board Approved Primary Resource:

There is no additional text for this course.

### Additional Registration Information:

This course is delivered 100% online. This class will prepare students for the AP exam given in the spring. This course meets the Rigorous Course Waiver for Economics.

## Advanced Placement (AP) Psychology

**SSP-A00-11L / SSP-A00-12L** ► Online (LinK<sup>12</sup>)

Grades: 10-12	Course Duration: Year-long
Fulfills Elective Requirement for Graduation	
Prerequisite: None	

### Course Description:

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

The primary units of study include neurobiology, states of consciousness, learning, memory, cognition, sensation and perception, emotion and motivation, development, abnormal behaviors, therapies, social psychology and methodology.

The students will demonstrate learning through tests, quizzes, group work, computer lab experiments, individual projects and in-class discussion.

### Board Approved Primary Resource:

Myers' Psychology for the AP Course- Third Edition  
David G. Myers; C. Nathan DeWall - Bedford, Freeman & Worth Publishing Group. – 2018 - Digital  
ISBN: 9978-1319070502

### Additional Registration Information:

This course is delivered 100% online.

## Advanced Placement (AP) United States Government & Politics

**SSV-A00-00L** ► Online (LinK<sup>12</sup>)

Grades: 9-12	Course Duration: Semester-long
Fulfills Civics Requirement for Graduation	
Prerequisite: None	

### Course Description:

This course is the study of the forces that helped to shape the American government "experiment" while evaluating both past and present American governmental leaders, using the Constitution and the Declaration of Independence as guidelines.

The primary units of study include a focus on the Constitution, the political parties, the media, the three branches of government and the bureaucracy.

The students will demonstrate their learning by tests, quizzes, written and oral reports and virtual discussion.

### Board Approved Primary Resource:

There is no additional text for this course.

### Additional Registration Information:

This course is delivered 100% online. This course meets the Rigorous Course Waiver for the Civics course.

## Criminal Justice

**SSL-100-00L** ► Online (LinK<sup>12</sup>)

Grades: 9-12	Course Duration: Semester-long
Fulfills Elective Requirement for Graduation	
Prerequisite: None	

### Course Description:

This course is the study of explanations for crime from the standpoint of psychological, biological and sociological perspectives, categories and social consequences of crime, and the criminal justice system.

The students will demonstrate learning through assignments, tests, quizzes, projects and discussions.

### Board Approved Primary Resource:

There is no additional text for this course.

### Additional Registration Information:

This course is delivered 100% online.

## History of the Holocaust

**SSZ-130-00L** ► Online (LinK<sup>12</sup>)

Grades: 9-12	Course Duration: Semester-long
Fulfills Elective Requirement for Graduation	
Prerequisite: None	

### Course Description:

This course is the study of the Holocaust from an interdisciplinary perspective integrating world and American history, geography and civics.

The primary units of study include the history of anti-Semitism, the rise of the Nazi party and the Holocaust from its beginning through liberation and the aftermath of the tragedy.

The students will demonstrate learning through assignments, tests, quizzes, projects and discussions.

### Course Recommendation:

This course is recommended for students who want to gain a comprehensive understanding of the Holocaust.

### Board Approved Primary Resource:

There is no additional text for this course.

### Additional Registration Information:

This course is delivered 100% online.

## Introduction to Legal Studies

**SSL-120-00L** ► Online (LinK<sup>12</sup>)

Grades: 9-12	Course Duration: Semester-long
Fulfills Elective Requirement for Graduation	
Prerequisite: None	

### Course Description:

This course is the study of the creation and application of laws in various areas of society. Law & Order is designed to provide students with an understanding of their legal rights and responsibilities.

The primary units of study include world law and ethics, lawmaking, courts, criminal tort and consumer and family law.

The students will demonstrate learning through assignments, tests, quizzes, projects and discussions.

### Course Recommendation:

This course is recommended for students who want to pursue a career in law related careers.

### Board Approved Primary Resource:

There is no additional text for this course.

### Additional Registration Information:

This course is delivered 100% online.

## Psychology

**SSP-100-00L** ► Online (LinK<sup>12</sup>)

Grades: 9-12	Course Duration: Semester-long
Fulfills Elective Requirement for Graduation	
Prerequisite: None	

### Course description:

This course is the study of the science of human behavior. Topics include history, methodology, bio-psychology, sensation, perception, learning, motivation, cognition, personality theory, social psychology, and other relevant topics.

The primary units of study include the brain, processes of learning, personality theory, states of consciousness and abnormal behavior.

The students will demonstrate learning through assignments, tests, quizzes, and projects.

### Board Approved Primary Resource:

Psychology  
Houghton Mifflin Harcourt – 2018 - Digital  
ISBN: 9780544859388

### Additional Registration Information:

This course is delivered 100% online.

## Sociology

**SSS-100-00L** ► Online (LinK<sup>12</sup>)

Grades: 9-12	Course Duration: Semester-long
Fulfills Elective Requirement for Graduation	
Prerequisite: None	

### Course Description:

This course is an introductory study of basic sociological concepts: humans and their behavior group. In addition, this course will seek to examine societal concepts (values, traditions, roles) that influence the interaction among individuals, groups, and institutions, as well as to understand how societal concepts and institutions develop and change over time.

The primary units of study include cross-cultural studies of family, marriage, divorce, death, the right to die, effects of death on people, deviant subculture, race, and ethnicity.

Students will demonstrate learning through assignments, tests, quizzes, and projects.

### Board Approved Primary Resource:

There is no additional text for this course.

### Additional Registration Information:

This course is delivered 100% online.

## American Sign Language 1

WLA-100-11L / WLA-100-12L ► Online (Link<sup>12</sup>)

Grades: 9-12	Course Duration: Year-long
Fulfills Elective Requirement for Graduation	
Prerequisite: None	

### Course Description:

This course is an introduction to the basic skills in production and comprehension of American Sign Language (ASL). It exposes students to ASL grammar, includes the manual alphabet and numbers, develops conversational ability and culturally appropriate behaviors.

The primary units of study include an introduction to the Deaf world and Deaf community, academics, family and relationships, residences, transportation and scheduling.

The students will demonstrate learning through signed presentations, informal video submissions, online worksheets, receptive tests/quizzes, research papers, written tests/quizzes, and individual and group projects.

### Course Recommendation:

This course is recommended for students who are interested in learning a new language and culture, foresee a post-secondary education at the university level, want to work collaboratively and/or anticipate a career in which knowledge of a second language and culture is desirable.

### Board Approved Primary Resources:

TRUE+WAY ASL: Unit 1-5 e-Workbook. 3rd Edition. (2021)

Harris R. - Bryant, R. - Gelineau, L. - Shannon T.

ISBN: 9780998524542

### Additional Registration Information:

This course is delivered 100% online.

## American Sign Language 2

WLA-200-12L / WLA-200-12L ► Online (Link<sup>12</sup>)

Grades: 9-12	Course Duration: Year-long
Fulfills Elective Requirement for Graduation	
Prerequisite: American Sign Language 1	

### Course Description:

This course builds upon students' skills in production and comprehension of American Sign Language (ASL). Lessons are designed around recognition and demonstration of grammatical features of ASL with a focus on increasing fluency and accuracy. Cultural awareness of the diverse Deaf communities of the world will also be taught.

The primary units of study include scheduling, daily activities, chores, hobbies, food, cooking and describing people.

The students will demonstrate learning through signed presentations, informal video submissions, online worksheets, receptive tests/quizzes, research papers, written tests/quizzes, and individual and group projects.

### Course Recommendation:

This course is recommended for students who are interested in learning a new language and culture, foresee a post-secondary education at the university level, want to work collaboratively with others and/or anticipate a career in which knowledge of a second language and culture is desirable.

### Board Approved Primary Resources:

TRUE+WAY ASL: Unit 6-10 e-Workbook. 3rd Edition. (2021)

Harris R. - Bryant, R. - Gelineau, L. - Shannon T.

ISBN: 9780998524542

### Additional Registration Information:

This course is delivered 100% online.

## French 1

WLF-100-11L / WLF-100-12L ► Online (LinK<sup>12</sup>)

Grades: 9-12	Course Duration: Year-long
Fulfills Elective Requirement for Graduation	
Prerequisite: None	

### Course Description:

This course is the study of beginning French language and culture.

The goal of this course is to give students basic listening, speaking, reading, and writing skills through activities. Throughout the five units of material - Greetings, Calendar, Weather, Time and Colors - students learn to talk about themselves and other, describe their surroundings and use numbers for dates and time. Regular verbs are introduced in the present tense. Simple grammatical structures are practiced in innovative and interesting ways with a variety of learning styles in mind. Culture is presented throughout the course to help students understand the context of the language and to better understand the perspectives of the French - speaking world.

The students will demonstrate learning through class discussions, homework, projects, quizzes, and tests. All units address the four modalities of language learning: reading, writing, speaking, and listening.

### Course Recommendation:

This course is recommended for students who are interested in learning a new language and culture and foresee a post-secondary education at the university level and/or anticipate a career in which a second language is desirable.

### Board Approved Primary Resource:

There is no additional text for this course.

### Additional Registration Information:

This course is delivered 100% online.

## French 2

WLF-200-11L / WLF-200-12L ► Online (LinK<sup>12</sup>)

Grades: 9-12	Course Duration: Year-long
Fulfills Elective Requirement for Graduation	
Prerequisite: French 1	

### Course Description:

This course is the study of intermediate French language and culture.

This course is a continuation of French 1 that will introduce the student to a variety of areas of language learning. Throughout the five units of material (Daily Routine, Animals, Hobbies, The Body and Descriptions), students learn to express themselves using an ever-increasing vocabulary, present - tense verbs, articles, and adjectives. Grammar is introduced and practiced in innovative and interesting ways with a variety of learning styles in mind. Culture is sprinkled throughout the course in an attempt to help the learner focus on the French speaking world and their culture, people, geographical locations and histories.

The students will demonstrate learning through class discussion, homework, projects, quizzes, and tests. All units address the four modalities of language learning: reading, writing, speaking, and listening.

### Course Recommendation:

This course is recommended for students who are interested in learning a new language and culture and foresee a post-secondary education at the university level, have completed level 1 of French, and/or anticipate a career in which a second language is desirable.

### Board Approved Primary Resource:

There is no additional text for this course.

### Additional Registration Information:

This course is delivered 100% online.



## French 3

WLF-300-11L / WLF-300-12L ► Online (Link<sup>12</sup>)

Grades: 9-12	Course Duration: Year-long
Fulfills Elective Requirement for Graduation	
Prerequisite: French 2	

### Course Description:

This course continues the study of intermediate French language and culture.

French 3 is a continuation of the first two years. The student will continue to improve listening, speaking, reading and writing skills. Throughout the five units - Feelings, Transportation, Work, Countries and Future - students build on previous knowledge with additional vocabulary, verb tenses, and grammatical structures appropriate to their level. Grammar is introduced and practiced in innovative and interesting ways with a variety of learning styles in mind.

The students will demonstrate learning through class discussion, homework, projects, quizzes, and tests. All units address the four modalities of language learning: reading, writing, speaking, and listening.

### Course Recommendation:

This course is recommended for students who are interested in learning a new language and culture and foresee a post-secondary education at the university level, have completed levels 1 and 2 of French, and/or anticipate a career in which a second language is desirable.

### Board Approved Primary Resource:

There is no additional text for this course.

### Additional Registration Information:

This course is delivered 100% online.

## French 4

WLF-440-11L / WLF-440-12L ► Online (Link<sup>12</sup>)

Grades: 9-12	Course Duration: Year-long
Fulfills Elective Requirement for Graduation	
Prerequisite: French 3	

### Course Description:

This course is the study of advanced French language and culture.

Students will continue to sharpen listening, speaking, reading and writing skills through a variety of activities. Throughout the five units of material, students learn to express themselves using an ever-increasing vocabulary. Grammar is practiced in innovative and interesting ways with a variety of learning styles in mind. This course is rich in authentic text reading material and authentic, native - speaker recordings and presentations to enrich culture, grammar and vocabulary presentations. Culture is woven throughout the course in an attempt to help the learner focus on the French speaking world and their culture, people, geographical locations and histories.

The students will demonstrate learning through class discussion, homework, projects, quizzes, and tests. All units address the four modalities of language learning: reading, writing, speaking, and listening.

### Course Recommendation:

This course is recommended for students who are interested in learning a new language and culture and foresee a post-secondary education at the university level, have completed levels 1-3 of French, and/or anticipate a career in which a second language is desirable.

### Board Approved Primary Resource:

There is no additional text for this course.

### Additional Registration Information:

This course is delivered 100% online.

## German 1

WLG-100-11L / WLG-100-12L ► Online (Link<sup>12</sup>)

Grades: 9-12	Course Duration: Year-long
Fulfills Elective Requirement for Graduation	
Prerequisite: None	

### Course Description:

This course is the study of beginning German language and the cultures of German-speaking countries.

The primary units of study include the alphabet and numbers, greetings, introductions, the calendar, weather, time, colors, familiar objects and places, family, food, pastimes and school objects and routines.

The students will demonstrate learning through assignments, speaking activities, tests, quizzes, projects and discussions. All units address the four modalities of language learning: reading, writing, speaking and listening.

### Course Recommendation:

This course is recommended for students interested in learning a new language or culture, foresee a post-secondary education at the university level, and/or anticipate a career in which knowledge of a second language is desirable.

### Board Approved Primary Resource:

There is no additional text for this course.

### Additional Registration Information:

This course is delivered 100% online.

## German 2

WLG-200-11L / WLG-200-12L ► Online (Link<sup>12</sup>)

Grades: 9-12	Course Duration: Year-long
Fulfills Elective Requirement for Graduation	
Prerequisite: None	

### Course Description:

This course is the study of intermediate German language and the cultures of German-speaking countries.

The primary units of study include daily routine, animals, entertainment, body parts, rooms and furniture, shopping and clothing, meals, sports and recreation and transportation.

The students will demonstrate learning through assignments, speaking activities, tests, quizzes, projects and discussions. All units address the four modalities of language learning: reading, writing, speaking and listening.

### Course Recommendation:

This course is recommended for students interested in learning a new language or culture, foresee a post-secondary education at the university level, and/or anticipate a career in which knowledge of a second language is desirable.

### Board Approved Primary Resource:

There is no additional text for this course.

### Additional Registration Information:

This course is delivered 100% online.

## German 3

WLG-300-11L / WLG-300-12L ► Online (LinK<sup>12</sup>)

Grades: 9-12	Course Duration: Year-long
Fulfills Elective Requirement for Graduation	
Prerequisite: German 1 and 2	

### Course Description:

This course is the study of intermediate German language and the cultures of German-speaking countries.

Students will expand their knowledge of German language and culture and use of multiple tenses.

The students will demonstrate learning through assignments, speaking activities, tests, quizzes, projects and discussions. All units address the four modalities of language learning: reading, writing, speaking and listening.

### Course Recommendation:

This course is recommended for students interested in learning a new language or culture, foresee a post-secondary education at the university level, and/or anticipate a career in which knowledge of a second language is desirable.

### Board Approved Primary Resource:

There is no additional text for this course.

### Additional Registration Information:

This course is delivered 100% online.

## Spanish 1

WLS-100-11L / WLS-100-12L ► Online (LinK<sup>12</sup>)

Grades: 9-12	Course Duration: Year-long
Fulfills Elective Requirement for Graduation	
Prerequisite: None	

### Course Description:

This course is the study of beginning Spanish language and the cultures of Spanish-speaking countries.

The primary units of study include greetings, hobbies, school, physical descriptions, nationalities telling time, numbers, feelings, pastimes, food, family, the city, animals, shopping, clothing, weather and present tense verb conjugation.

The students will demonstrate learning through tests and quizzes, projects, homework, class participation, and final semester exams that incorporate the four modalities of language learning: listening, speaking, reading, and writing.

### Course Recommendation:

This course is recommended for independent learners who are interested in learning a new language and culture, foresee a post-secondary education at the university level, and/or anticipate a career in which knowledge of a second language and culture is desirable.

### Board Approved Primary Resource:

There is no additional text for this course.

### Additional Registration Information:

This course is delivered 100% online.

## Spanish 2

WLS-220-11L / WLS-220-12L ► Online (Link<sup>12</sup>)

Grades: 9-12	Course Duration: Year-long
Fulfills Elective Requirement for Graduation	
Prerequisite: Spanish 1	

### Course Description:

This course is the study of beginning/intermediate Spanish language and cultures of the Spanish-speaking world.

The primary units of study include the birthdays, numbers, food, health, family, professions, adjectives, pastimes, body, holidays, houses, at school, cars, in the city, proverbs.

The students will demonstrate learning through tests and quizzes, projects, homework, class participation, and final semester exams that incorporate the four modalities of language learning: listening, speaking, reading, and writing.

### Course Recommendation:

This course is recommended for independent learners who are interested in learning a new language and culture, foresee a post-secondary education at the university level, and/or anticipate a career in which knowledge of a second language and culture is desirable.

### Board Approved Primary Resource:

There is no additional text for this course

### Additional Registration Information:

This course is delivered 100% online.

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## Spanish 3

WLS-330-11L / WLS-330-12L ► Online (Link<sup>12</sup>)

Grades: 9-12	Course Duration: Year-long
Fulfills Elective Requirement for Graduation	
Prerequisite: Spanish 2	

### Course Description:

This course is the study of intermediate Spanish language and cultures of the Spanish-speaking world.

The primary units of study include volunteering in the community, family relationships, leisure on the coast, media, socio-cultural interactions, around the neighborhood, urban living, future of the planet, describing others and their professions, and travel preparations.

The students will demonstrate learning through tests and quizzes, projects, homework, class participation, and final semester exams that incorporate the four modalities of language learning: listening, speaking, reading, and writing.

### Course Recommendation:

This course is recommended for independent learners who are interested in learning a new language and culture, foresee a post-secondary education at the university level, and/or anticipate a career in which knowledge of a second language and culture is desirable.

### Board Approved Primary Resource:

There is no additional text for this course

### Additional Registration Information:

This course is delivered 100% online.

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## Spanish 4

WLS-440-11L / WLS-440-12L ► Online (Link<sup>12</sup>)

Grades: 10-12	Course Duration: Year-long
Fulfills Elective Requirement for Graduation	
Prerequisite: Spanish 3	

### Course Description:

This course is the study of advanced Spanish language and the cultures of Spanish-speaking countries.

The primary units of study include school activities, food and cooking, international travel, society, medicine, news, television, and animals in Spanish-speaking countries

The students will demonstrate learning through tests and quizzes, projects, homework, class participation, and final semester exams that incorporate the four modalities of language learning: listening, speaking, reading, and writing.

### Course Recommendation:

This course is recommended for independent learners with a strong background in Spanish who are interested in learning a new language and culture, foresee a post-secondary education at the university level, and/or anticipate a career in which knowledge of a second language and culture is desirable.

### Board Approved Primary Resource:

There is no additional text for this course.

### Additional Registration Information:

This course is delivered 100% online.

