Curriculum Guide

2017-2018
52200 10 Mile Road
South Lyon, MI 48178
248-573-8700
Table of Contents

About our School .................................................................3
Credits & Class Placement ......................................................4
Credit Recovery & Scheduling ................................................5
Testing ...............................................................................6
Personal Curriculum .............................................................7
Graduation Requirements ......................................................8
Making Sense of Graduation Requirements ..............................9
Special Opportunities ..........................................................10
Preparation for Success at the College Level .........................11
4 Year Course Planning Worksheet .......................................13

Course Offerings by Department

Applied Arts ..........................................................................14
Art .................................................................................15
Business & Computers .........................................................18
Design & Technology ...........................................................20
English ..............................................................................22
Mathematics .......................................................................27
Music ..............................................................................29
Performing Arts .................................................................30
Physical Education ...............................................................31
Science ............................................................................32
Senior Projects Course .........................................................35
Social Studies ....................................................................36
World Language .................................................................38

Career Pathways .................................................................40
Arts & Communication Pathway .........................................42
Business, Management, Marketing & Technology Pathway ....43
Engineering, Manufacturing & Industrial Technology Pathway .44
Health Sciences Pathway ......................................................45
Human Services Pathway .....................................................46
Natural Resources & Agriscience Pathway ............................47

Oakland Schools Technical Campus ......................................48
Howell Firefighter Academy ..................................................60

Cover Created by Alexa Wilk, Desktop Publishing Student

High School Leadership

Ms. Karen Fisher ............... Principal
Ms. Linda Chudy-Bowman . Asst. Principal
To be determined ............ Asst. Principal
South Lyon East High School is home to more than 1000 students in grades 9 through 12. Built in 2007, the building is a state of the art educational facility. The building features bright classrooms, a library/media center, gymnasium with a track, fitness center, dance studio, swimming pool, television studio, lecture hall, and a professional quality auditorium. The Commons is the central focal point of the first floor.

Our Faculty

SLEHS boasts more than 60 certified teachers and counselors. All seek out additional training to stay current in their fields. Always willing to give our students the extra assistance they need, our teachers are dedicated to student success, and to help students learn, they employ a variety of methods, such as cooperative learning, hands-on experience, problem-solving, Habits of Mind, and other effective teaching strategies. A variety of assessment methods allow students to demonstrate what they have learned.

Our Curriculum

Aligned with the Department of Education’s Michigan Merit/Common Core State Standard Curriculum, our program is designed to prepare students to meet college and career entrance requirements and to provide all students with a chance to pursue their interests.

We offer two Honors English courses and 13 Advanced Placement courses. Additionally, more than 50 students spend 1/2 of each day at the Oakland Schools’ Technical Center, Southwest in nearby Wixom, in 13 different career pathway programs.

Accreditation

Our programs and services are accredited by the North Central Association of Secondary Schools (now AdvancED) - a distinction SLCS have maintained since 1972 with an ongoing process of self-improvement and evaluation.

Assessment

SLEHS students consistently meet or exceed national averages on the SAT and ACT and they compare favorably to their peers in neighboring districts on the M-STEP.

Calendar and Credits

SLEHS is structured on a traditional 6-period day within two semesters per 180 day school year that runs from Labor Day through mid-June. Students earn 1/2 credit per course per semester with 24 credits possible over four years.

Mission Statement

The mission of South Lyon East High School is to provide students a rigorous education in order to develop responsible, knowledgeable, and respectful participants in society who make positive contributions at home, school, work, and in the global community.
Credits and Class Placement

SLCS Board Policy 7630

HIGH SCHOOL CREDIT

Students have the opportunity to earn 1/2 credit per course, per semester, for a total of 3 credits each semester and 6 credits each year. Up to 24 credits may be earned in 4 years. The number of credits that you earn determines whether or not you graduate on time.

CLASS PLACEMENT

Class designation is based on the number of years that a student has been in high school.

<table>
<thead>
<tr>
<th>Year 1:</th>
<th>Year 3:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Freshman</td>
<td>Junior</td>
</tr>
<tr>
<td>Year 2:</td>
<td>Year 4:</td>
</tr>
<tr>
<td>Sophomore</td>
<td>Senior *</td>
</tr>
</tbody>
</table>

In order to assure that you are on schedule to graduate in 4 years with the required 23 credits, it is important that you monitor your progress each year so that you meet your goal. The following are the recommended credit “checkpoints” to ensure that you will graduate on time:

<table>
<thead>
<tr>
<th>By the end of:</th>
<th>You should have earned at least:</th>
</tr>
</thead>
<tbody>
<tr>
<td>9th grade</td>
<td>5.5 credits</td>
</tr>
<tr>
<td>10th grade</td>
<td>11.0 credits</td>
</tr>
<tr>
<td>11th grade</td>
<td>17.0 credits</td>
</tr>
<tr>
<td>12th grade</td>
<td>23.0 credits</td>
</tr>
</tbody>
</table>

* A senior who has not fulfilled all graduation requirements by the end of year 4 will remain classified as a senior.

TRANSFER CREDITS

Academic credits earned by students in an accredited high school will be reconfigured to equate to the credit system used by South Lyon Community Schools, with the maximum credits of 3 credits per semester counted toward SLCS’s graduation requirements. With the following exceptions, credits earned in a regionally accredited school will be entered into the student’s South Lyon permanent academic record (transcript) with designations assigned by the sending school. Exceptions include:

- Credit earned from religion courses will be recorded as elective credit.
- Credit earned from driver education or correspondence courses will not be transferred onto the student’s South Lyon academic record.

Transfer of credit earned in unaccredited schools or home schools is governed by SLCS’s Board Policy 5460 at www.slcs.us.
Credit Recovery Options

Board Policy 5460 allows students to take one or two additional courses during each semester of the school year and during the summer. Costs and transportation are the responsibility of the students and their families. This information is in our curriculum guide on the district website at www.sles.us; choose South Lyon East High School.

1. Repeat classes at South Lyon East High School.
Students have the option to retake courses that they have not passed for free at South Lyon East High School. For courses repeated at SLCS, the highest course grade will be reflected on the transcript and factored in the GPA.

2. Summer School.
Several neighboring districts offer students the opportunity to retake required core academic courses. Information is usually available in Student Services in late May. Grades for courses taken during summer school will appear on the transcript in addition to the original grade; both are factored in the GPA. A high school counselor, principal, or designee must approve courses to be taken. Students may earn a maximum of 1 credit for attending summer school classes.

3. Online Recovery.
All high school students are eligible to enroll in two online courses for up to one credit each semester, in addition to a full schedule, with the counselor’s or principal’s prior approval. No more than two online courses may be taken during the summer. There are two online programs that we use; Michigan Virtual or Clintondale Virtual. This is a pass/fail option. The student either passes or fails the online course. If the student passes they will have earned the credit towards graduation. Courses taken online will receive a “G” grade and will not impact the GPA, but the letter grade is used to determine athletic extra-curricular eligibility. The original grade will remain on the transcript.

Public Act 335, Section 21B, of the state code, requires that any high school student be offered the opportunity to “test out” of any course offered by his/her high school. In order to test out, students must exhibit mastery of the course content by attaining a passing grade of 78% or better on a comprehensive final assessment. In addition, along with the exam, students may also be required to demonstrate mastery through basic assessments used in the class, which may include but not be limited to, a portfolio, research papers, projects and/or oral presentations. If the student attains at least a 78% on the testing out assessment, s/he will receive credit in the course toward graduation, as well as allow the student to satisfy core content requirements. For example, testing out of Algebra I would allow a student to move on to Geometry. Once the testing out exam is passed, a student may not receive credit for a lower course in that course sequence. While the student will receive credit for testing out of a course with a 78% or higher, a G (credit) will be entered on the student’s transcript, but a grade will not be included in the computation of the grade point average. If a student had already taken the entire course prior to testing out, but did not pass the course, the failing grade will remain on the student’s transcript and averaged into the grade point average. This is for core classes (required for graduation) only. For non-core classes, students may “place out” meaning students may take the test to place them in a more advanced course. Credit is not given for students placing out of course sequence. Testing Out is offered in January and June of each school year. Students should discuss the possibilities with their counselor.

Early Graduation
Students may graduate early as long as they have met all graduation requirements and have earned a minimum of 23 credits.
STATE MANDATED ASSESSMENT
Students must take the mandated state assessments during the junior year. The MME consists of three exams: SAT plus essay, ACT WorkKeys, and the M-Step.

SAT (Scholastic Aptitude Test)
All juniors will take the SAT plus essay as a component of the Michigan Merit Exam in April, during the school day, at no cost to the student. In the event that a student wishes to retake the SAT, it is given on Saturday mornings throughout the school year at various test sites in the surrounding area. More information and registration for retakes can be found at www.collegeboard.org.

PSAT (Preliminary Scholastic Aptitude Test)
This test is given to all 11th grade students in the fall and to 9th and 10th grade students in the spring. Juniors taking the PSAT will be eligible for the National Merit Scholarship Competition.

ACT + WRITING
This test is given on Saturday mornings throughout the school year at various test sites in the surrounding area. Students may opt to take only the ACT (not including the writing portion). More information and registration can be found at www.actstudent.org.

ARMED SERVICES VOCATIONAL APTITUDE BATTERY (ASVAB)
The ASVAB is designed to identify your unique vocational talents or abilities. Originally used to assist the armed services in placing new recruits in vocational/technical training programs, the test has a broad application outside the military, as well. Come to the Student Services Center for more information.

ADVANCED PLACEMENT PROGRAM
Advanced Placement (AP) courses are offered in the English, Mathematics, Science and Social Studies Departments. These classes are equal to entry level college courses in the degrees of concentration, advanced work and study that are required. Students who successfully complete AP course requirements may choose to take the College Entrance Examination Board’s AP tests in May. Acceptable scores on an AP test may enable the student to receive college credit for the course or to bypass entry level college courses.

*If the MDE requires additional assessments, SLCS will administer those assessments as required.

GRADING
Each student’s report card will indicate a grade point average for that six-week period. South Lyon High School uses the 4-point grading system for all purposes. A cumulative grade point average for each student is computed at the end of each semester. The GPA is determined by averaging the grades, using the following values:

\[
\begin{align*}
A &= 4.0 \\
A- &= 3.7 \\
B+ &= 3.3 \\
B &= 3.0 \\
B- &= 2.7 \\
C+ &= 2.3 \\
C &= 2.0 \\
C- &= 1.7 \\
D+ &= 1.3 \\
D &= 1.0 \\
D- &= 0.7 \\
E &= 0.0
\end{align*}
\]

At the end of each semester, students will also be given grades based on the Habits of Mind. The HOM we will be assessing are:

1. WI = Works Independently
2. TW = Teamwork
3. WH = Work Habits
4. INT = Initiative

Those students who receive a grade of incomplete must contact their teacher to remove the incomplete.
Dear Students,

South Lyon Community Schools is proud of the fact that over 90% of our graduating seniors go on to colleges and universities. Our rigorous and well-rounded high school curriculum prepares our students well for their next endeavors.

Recently, the Michigan Legislature passed updates to the state’s requirements for high school graduation. The updated law allows for some adjustments to the traditional graduation requirements through personal curriculum plans and through counselor and administrator approval.

Details about the updated laws (MCL 380.1278a and MCL 380.1278b) and those requirements can be found by visiting the Michigan Department of Education’s website at the following link:

http://www.michigan.gov/mde/0,4615,7-140-28753_64839_38924---,00.html

Details about our district’s graduation requirements can be found in the high school curriculum guides, which are available at each school’s website and in the counseling offices.

For nearly all of our students, the personal curriculum options and the additional options allowed by the updates to the legislation may not be beneficial, as these adjustments may significantly hinder the student’s acceptance into a college, university or other post-secondary program.

South Lyon Community Schools strongly encourages all college-bound students to carefully weigh whether adjusting the graduation requirements using either a personal curriculum or permission of the counselor and administrator (as outlined in Board Policy 5460) would hinder his or her acceptance into the college or university the student wishes to attend. It is recommended that students speak with admissions counselors at their desired college or university prior to considering any adjustments in the traditional graduation requirements.

Sincerely,

Lisa Kudwa
Assistant Superintendent for CITA Services

Dr. David Phillips, Principal of South Lyon East High School

Mr. Chad Scaling, Principal of South Lyon High School

Mission Statement
In support of our community, the mission of the South Lyon Community Schools is to provide the highest quality educational process so that all students can excel as individuals and become productive and contributing members of society.
<table>
<thead>
<tr>
<th>Recommended Graduation Requirements</th>
<th>Additional Options – Must be approved by counselor/administrator</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Total Credits Required</strong></td>
<td>23</td>
</tr>
<tr>
<td><strong>English</strong></td>
<td>4 high school credits (1 credit each year), including</td>
</tr>
<tr>
<td>1 cr. English 9</td>
<td></td>
</tr>
<tr>
<td>1 cr. English 10</td>
<td></td>
</tr>
<tr>
<td>1 cr. 11th Grade Literature course</td>
<td></td>
</tr>
<tr>
<td>1 cr. 12th Grade English elective</td>
<td></td>
</tr>
<tr>
<td><strong>Mathematics</strong></td>
<td>4 high school credits, including</td>
</tr>
<tr>
<td>1 cr. Algebra 1 (Grade 7, 8)</td>
<td>1 credit CTE program Algebra 2 (OSTC pull out or embedded if offered) *</td>
</tr>
<tr>
<td>1 cr. Geometry (Grade 8, 9, or 10)</td>
<td></td>
</tr>
<tr>
<td>1 cr. Algebra 2 (or designated alternate courses according to eligibility guidelines)</td>
<td></td>
</tr>
<tr>
<td>*STUDENTS MUST EARN 1 CREDIT IN A MATH OR MATH-RELATED COURSE IN 12TH GRADE</td>
<td></td>
</tr>
<tr>
<td><strong>Science</strong></td>
<td>3 high school credits, including</td>
</tr>
<tr>
<td>1 cr. Biology (Grade 9)</td>
<td>1 cr. Biology (Grade 9) AND 2 credits from the following:</td>
</tr>
<tr>
<td>1 cr. Chemistry or Analytical Chemistry</td>
<td>Chemistry or Analytical Chemistry, Geophysical Science or Physics, Anatomy and Physiology,</td>
</tr>
<tr>
<td>1 cr. Geophysical Science or Physics</td>
<td>Agricultural Science (online), MDE Computer Science Program (OSTC), Formal CTE Program (OSTC)</td>
</tr>
<tr>
<td>*Students may choose 2 Science courses in 10th and 11th Grades.</td>
<td></td>
</tr>
<tr>
<td><strong>Physical Education and Health</strong></td>
<td>1 high school credit</td>
</tr>
<tr>
<td>0.5 cr. Foundations of Health and Physical Education</td>
<td>NONE*</td>
</tr>
<tr>
<td>0.5 cr. Healthy Life Habits</td>
<td></td>
</tr>
<tr>
<td><strong>Social Studies</strong></td>
<td>3 high school credits, including</td>
</tr>
<tr>
<td>1 cr. 20th Century American History (Grade 9)</td>
<td>NONE*</td>
</tr>
<tr>
<td>1 cr. World Studies (Grade 10)</td>
<td></td>
</tr>
<tr>
<td>0.5 cr. Economics (Grade 11)</td>
<td></td>
</tr>
<tr>
<td>0.5 cr. Government (Grade 11)</td>
<td></td>
</tr>
<tr>
<td><strong>World Language</strong></td>
<td>2 high school credits are required in the same world language</td>
</tr>
<tr>
<td>High School credit will be granted for successful completion of a World Language in 8th grade.</td>
<td>1 credit World Language AND 1 credit from CTE Program (complete 2 year program at OSTC) OR 1 credit AVPA coursework (in addition to graduation requirement)</td>
</tr>
<tr>
<td><strong>Applied, Visual &amp; Performing Arts</strong></td>
<td>1 high school credit</td>
</tr>
<tr>
<td>Visual &amp; Performing Arts include Art, Music, Drama, etc. Applied Arts include courses with a creative design component, such as technology design, yearbook, etc.</td>
<td>NONE*</td>
</tr>
<tr>
<td><strong>State Examination</strong></td>
<td>All students must take the State mandated assessment in their Junior Year as a graduation requirement.</td>
</tr>
<tr>
<td><strong>Elective Credits</strong></td>
<td>5.0 credits</td>
</tr>
</tbody>
</table>

Note: Transfer credits will be calculated in accordance with South Lyon Community Schools’ Board of Education Policy 763

*In accordance with SLCS Board of Education Policy 5460, a Personal Curriculum may be an option for some students.
MAKING SENSE OF THE GRADUATION REQUIREMENTS

It is now possible to fulfill some graduation requirements with courses from multiple departments. Two points you must keep in mind as you plan your four years of high school:

- **You may not “double dip.”** Course credit may be used to satisfy only ONE requirement. For example, Physics may be counted toward EITHER the science requirement or the senior year math or math related course. It’s either science or math-related, but not both.
- **Be sure that you have planned your program to include prerequisites** for the courses that you plan to take. For example, you must take the year-long Technical Drawing & CAD course to qualify for the Advanced Technical Drawing & CAD course. Either course counts as your Applied Visual & Performing Arts credit.

*All students must earn 1.0 English credit in their senior year. Choose from the following courses:*

<table>
<thead>
<tr>
<th>Year-Long Courses (1.0 credit)</th>
</tr>
</thead>
<tbody>
<tr>
<td>AP English Language and Composition</td>
</tr>
<tr>
<td>AP English Literature and Composition</td>
</tr>
<tr>
<td>British Literature</td>
</tr>
<tr>
<td>Journalism</td>
</tr>
<tr>
<td>Classical Literature &amp; Thought</td>
</tr>
</tbody>
</table>

*All students must earn a mathematics or mathematics-related credit during their senior year. If you decide not to take a specific math course, you must choose from the following courses:*

<table>
<thead>
<tr>
<th>Business &amp; Computers</th>
<th>Design &amp; Technology</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accounting</td>
<td>Electronics &amp; Control</td>
</tr>
<tr>
<td>Visual Basic 1</td>
<td>Robotics &amp; Automation</td>
</tr>
<tr>
<td>Science</td>
<td>Engineering Projects</td>
</tr>
<tr>
<td>Physics</td>
<td>Advanced Technical Drawing &amp; CAD</td>
</tr>
<tr>
<td>AP Physics</td>
<td>OSTC – Math related courses in all clusters will meet 12th grade Math requirement (See your Guidance Counselor).</td>
</tr>
<tr>
<td>Social Studies</td>
<td></td>
</tr>
<tr>
<td>AP Microeconomics</td>
<td></td>
</tr>
<tr>
<td>AP Macroeconomics</td>
<td></td>
</tr>
</tbody>
</table>

*All students must earn 1.0 credit in the Applied, Visual and Performing Arts. You may choose from the following courses:*

<table>
<thead>
<tr>
<th>Art</th>
<th>Performing Arts</th>
</tr>
</thead>
<tbody>
<tr>
<td>All Art Courses</td>
<td>Drama</td>
</tr>
<tr>
<td>Theater Crafts</td>
<td></td>
</tr>
<tr>
<td>Business &amp; Computers Dept.</td>
<td>Music Department</td>
</tr>
<tr>
<td>Desktop Publishing</td>
<td>All Music courses</td>
</tr>
<tr>
<td>Digital Imaging</td>
<td>Oakland Schools Technical Campus</td>
</tr>
<tr>
<td>Entrepreneurship</td>
<td>Visual Imaging Technology</td>
</tr>
<tr>
<td>Science</td>
<td>Engineering/Emerging Technologies</td>
</tr>
<tr>
<td>MS User 1 &amp; 2</td>
<td>Culinary Arts/Hospitality</td>
</tr>
<tr>
<td>Introduction to Business</td>
<td>Transportation Technology</td>
</tr>
<tr>
<td>Visual Basic 1</td>
<td>iTeam (Information Technology)</td>
</tr>
<tr>
<td>Design &amp; Technology</td>
<td>Health Sciences</td>
</tr>
<tr>
<td>All Design &amp; Technology Courses</td>
<td>Agriscience and Environmental Science</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Applied Arts</th>
</tr>
</thead>
<tbody>
<tr>
<td>TV Production 1</td>
</tr>
<tr>
<td>TV Production 2</td>
</tr>
<tr>
<td>Yearbook</td>
</tr>
</tbody>
</table>
DUAL ENROLLMENT
Grades 9, 10, 11, 12
1 semester
**Prerequisite:** Qualifying Scores (PSAT, SAT, or MME) AND approval of Principal
High school students in Michigan have the opportunity to enroll in college courses at the school district’s expense. (Certain restrictions apply.) Students may earn both high school and college credit for courses completed under Dual Enrollment.
See your guidance counselor for more information.

INDEPENDENT STUDY
Grade 12
1 semester
**Prerequisite:** Students and Teacher must complete an application form that is available in the Student Services Office and submit it for Administrative approval.
Independent Study is for seniors who wish to pursue a subject that is not included in the high school curriculum. The student and teacher jointly design a course-for-one that includes goals, objectives, major projects, due dates, etc. NOTE: Independent Study—English will not count toward fulfillment of the English requirement for graduation.

TESTING OUT
Public Act 335, Section 21B, of the state code, requires that any high school student be offered the opportunity to “test out” of any course offered by his/her high school. In order to test out, students must exhibit mastery of the course content by attaining a passing grade of 78% or better on a comprehensive final assessment. In addition, along with the exam, students may also be required to demonstrate mastery through basic assessments used in the class, which may include but not be limited to, a portfolio, research papers, projects and/or oral presentations.
If the student attains at least a 78% on the testing out assessment, s/he will receive credit in the course toward graduation, as well as allow the student to satisfy core content requirements. For example, testing out of Algebra I would allow a student to move on to Geometry. Once the testing out exam is passed, a student may not receive credit for a lower course in that course sequence. While the student will receive credit for testing out of a course with a 78% or higher, a G (credit) will be entered on the student’s transcript, but a grade will not be included in the computation of the grade point average. If a student had already taken the entire course prior to testing out, but did not pass the course, the failing grade will remain on the student’s transcript and averaged into the grade point average. This is for core classes (required for graduation) only. For non-core classes, students may “place out” meaning students may take the test to place them in a more advanced course.
Credit is not given for students placing out of course sequence.

Testing Out is offered in January and June of each school year. Students should discuss the possibilities with their counselor.

MEDIA STUDIES
Grade 12
1 Semester
**Students must submit an application to the Media Specialist.**
You may complete units of study that require you to use a variety of media such as books, magazines, databases, and the internet to understand the issues that surround our lives. By the end of semester, you will be more knowledgeable about various media resources and have a better understanding of media issues and educational technology. Practical applications of Media Studies skills will require you to interact professionally with staff and students. This class will help you with assignments in other classes and will prepare you for college.
PREPARATION FOR SUCCESS AT THE COLLEGE LEVEL

90% of students who enter high school say they want to go on to some type of college after they receive their diplomas. Yet, in four years, only half of them will make that dream come true. Of those 45%, some will finish and some will not. Why do some make it and some don’t? What about you? How can you be sure you’re one of the successful ones?

It’s not grades, and it’s not test scores. The biggest factor in who makes it to college and who succeeds are the courses you choose in high school. The more challenging courses you take, the better prepared for anything you will be. Students are better off taking challenging courses and earning C’s, rather than taking easier courses and earning A’s.

The Presidents’ Council of the State Universities of Michigan and the National Collegiate Athletic Association have established standards for secondary preparation that will provide you with the background and skills you will need to meet the rigor of college courses.

<table>
<thead>
<tr>
<th></th>
<th>President’s Council of the State Universities of Michigan*</th>
<th>NCAA Division I Freshman Eligibility Standards**</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>(<a href="http://www.pcsum.org">www.pcsum.org</a>)</td>
<td>(<a href="http://www.ncaaclearinghouse.org">www.ncaaclearinghouse.org</a>)</td>
</tr>
<tr>
<td>English</td>
<td>4 years</td>
<td>4 years</td>
</tr>
<tr>
<td>Mathematics</td>
<td>4 years</td>
<td>3 years</td>
</tr>
<tr>
<td>Science</td>
<td>4 years, including Biology, Physics and Chemistry</td>
<td>2 years natural/physical Science</td>
</tr>
<tr>
<td>Social Studies</td>
<td>4 years</td>
<td>2 years</td>
</tr>
<tr>
<td>World Language</td>
<td>3 years</td>
<td></td>
</tr>
<tr>
<td>Other</td>
<td>Students are encouraged to take additional courses in:</td>
<td>1 year of additional English, Math or natural /physical Science.</td>
</tr>
<tr>
<td></td>
<td>- Fine and Performing Arts</td>
<td>4 years of additional courses from any area above or from World Language or comparative Religion/Philosophy courses</td>
</tr>
<tr>
<td></td>
<td>- Information Technology</td>
<td>NCAA Amateurism Certification Questionnaire</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ACT or SAT scores</td>
</tr>
<tr>
<td>Total</td>
<td>19 Credits</td>
<td>16 Credits</td>
</tr>
</tbody>
</table>

* Some Michigan universities require a specific number of high school credits in certain academic disciplines. Furthermore, a student whose background does not measure up to these recommendations will be expected to take (and pay for) remedial classes that may not count toward a degree program. For more information, go to the college’s website or contact the admissions office.

** Students who intend to participate in athletics at Division I or II schools must meet these requirements for freshman eligibility. Students should register with NCAA after completion of the junior year. To register, go to www.ncaaclearinghouse.org.
If a student is uncertain of course choices (including Honors and AP courses) they should discuss their options with their current teachers.

Schedule Change Policy:

Staffing is predicted and schedules are created based upon student class requests. It is important that all students and parents understand that course selection is important and the necessary time should be given to this process. Schedule changes at the beginning of the school year or throughout the school year will be considered for the following reasons:

• A course needs to be added to fulfill a graduation requirement.
• A course is no longer needed due to credit earned in summer school or testing out.
• A course needs to be retaken due to credit not being earned.
• A student has been placed into a course for which they have not met the pre-requisites.
• A student has too many or too few classes or multiple sections of the same course.

Changing of schedules will not be permitted because the student has changed their mind. Requests for teacher changes will not be honored.
# South Lyon High Schools

## Four Year Planning Worksheet

**Name:**

**Career Pathway:**

**Post Secondary Education Goal:**
- [ ] College/University
- [ ] Community College/Technical School
- [ ] Undecided

<table>
<thead>
<tr>
<th>Grade 9</th>
<th>CR</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 9</td>
<td>0.0</td>
</tr>
<tr>
<td>20th Century Amer. History</td>
<td>0.0</td>
</tr>
<tr>
<td>Biology</td>
<td>0.0</td>
</tr>
<tr>
<td>Math (Algebra)</td>
<td>0.0</td>
</tr>
<tr>
<td>Math (Geometry)</td>
<td>0.0</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Grade 10</th>
<th>CR</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 10</td>
<td>0.0</td>
</tr>
<tr>
<td>World Studies</td>
<td>0.0</td>
</tr>
<tr>
<td>Science (___)</td>
<td>0.0</td>
</tr>
<tr>
<td>Math (___)</td>
<td>0.0</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Grade 11</th>
<th>CR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Literature (___)</td>
<td>0.0</td>
</tr>
<tr>
<td>Government</td>
<td>0.0</td>
</tr>
<tr>
<td>Economics</td>
<td>0.0</td>
</tr>
<tr>
<td>Science (___)</td>
<td>0.0</td>
</tr>
<tr>
<td>Math (___)</td>
<td>0.0</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Grade 12</th>
<th>CR</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Elective (___)</td>
<td>0.0</td>
</tr>
<tr>
<td>Math (___)</td>
<td>0.0</td>
</tr>
</tbody>
</table>

### 9th Total Credits: 0.0

### 10th Total Credits: 0.0

### 11th Total Credits: 0.0

### 12th Total Credits: 0.0

### Required Semesters:

- [ ] English 9
- [ ] English 10
- [ ] Literature (11th)
- [ ] English Electives (12th)
- [ ] Biology
- [ ] Geophysical Science or Physics
- [ ] Chemistry

- [ ] Health/Life Habits, 2nd
- [ ] 20th Century American History
- [ ] World Studies
- [ ] Economics
- [ ] Government

- [ ] Algebra 1 (Grade 8 or Grade 9)
- [ ] Geometry (Grade 8, 9, or 10)
- [ ] Algebra 2 (or Equivalent)
- [ ] 12th Grade Math (1 Credit)
- [ ] Michigan Merit Exam
- [ ] World Language (2 Credits of the Same Language)
- [ ] Applied, Visual, & Performing Arts

---

*Approved online learning is included in SLCS coursework
Note: SLCS Board Policy 5460 outlines Personal Curriculum and additional graduation options*
APPLIED ARTS

**All applied art courses will count toward the Applied, Visual and Performing Arts Graduation Requirements.**

TELEVISION PRODUCTION 1

Grades 10, 11, 12
1 Semester
Supplies Needed: SD card
Students will learn to storyboard, shoot and edit video using non-linear digital software. The students will also be introduced to the positions and responsibilities involved in television production. Students should expect to spend time out of class to meet production deadlines.

TELEVISION PRODUCTION 2

Grades 10, 11, 12
1 Semester
Prerequisite: Expertise on the equipment, diligent and productive use of class time, and excellent attendance in Television Production One.
Students are responsible for the LIVE production of the daily announcements for the school. The students fill all positions used in television production on a rotating schedule. The students are also responsible for producing various feature videos for the school throughout the year. Students must be able to work together cooperatively and under pressure. Students are expected to spend time before and/or after school to meet production deadlines.

YEARBOOK

Grades 10, 11, 12
2 Semesters
*It is recommended that Journalism be taken in conjunction with, or prior to this course.*
Yearbook staff members will develop or expand their expertise in writing, art, design, leadership, and time management, accepting and meeting responsibility, salesmanship, business management, advertising, photography, graphics, computer operation, and other skills. In few other classes do students have the opportunity to see those skills adapted as effectively into one project. They must function in a highly realistic, job-oriented situation which affords them an excellent chance for career-planning and consideration. With a final product that will be read by many, students are often motivated to master these skills more thoroughly than ever before.

*May be repeated for elective credit.*
**ART**

**All art classes will count toward the Applied, Visual and Performing Arts Graduation Requirement.**

**FUNDAMENTALS OF ART**

Grades 9, 10, 11, 12
1 Semester

*This course is a prerequisite for all other Art courses.*

This course affords students the opportunity to fully explore the design process in a studio environment. Emphasis will be placed on the development and mastery of various media and techniques to effectively communicate the elements and principles of design. This course will provide necessary foundation skills for students who plan to enroll in other studio art courses.

**CERAMICS**

Grades 10, 11, 12
1 Semester

*Prerequisite: Fundamentals of Art*

This class focuses on traditional and alternative methods for constructing clay vessels, with an emphasis on developing craftsmanship. Students will be introduced to hand-building, the potter’s wheel and glazing techniques.

**ADVANCED CERAMICS**

Grades 10, 11, 12
1 Semester

*Prerequisite: Ceramics*

The focus of Advanced Ceramics is on the development of content and style in student artwork. Advanced students will work within the context of the regular classroom setting, while concentrating on amassing a substantial body of work. They will work contractually with the instructor regarding individual focus. In addition, these students will research movements in art history and individual artists in order to develop a sense of direction in their work.

**DRAWING**

Grades 9, 10, 11, 12
1 Semester

*Prerequisite: Fundamentals of Art*

Students will expand their understanding of the foundations of drawing in a studio setting. The course will emphasize Art production, Criticism, History and Aesthetics in order to develop competent student artists.

**ADVANCED DRAWING**

Grades 10, 11, 12
1 Semester

*Prerequisite: Drawing*

Advanced Drawing students will work within the context of the regular classroom setting, focusing on the development of content and style in their artwork. They will work contractually with the instructor regarding individual focus and concentrate on collecting and creating a substantial body of work. In addition, these students will research Art history and individual artists in order to develop a sense of direction in their artwork.
PAINTING
Grades 10, 11, 12
1 Semester
Prerequisite: Fundamentals of Art
Students will explore the foundations of painting in a studio setting. The course will emphasize Art production, Criticism, History and Aesthetics in order to develop competent student artists. The focus will be to use painting to strengthen visual communication skills.

ADVANCED PAINTING
Grades 10, 11, 12
1 Semester
Prerequisite: Painting
Advanced Painting students will work within the context of the regular classroom setting, focusing on the development of content and style in their artwork. They will work contractually with the instructor regarding individual focus and concentrate on collecting and creating a substantial body of work. In addition, these students will research Art history and individual artists in order to develop a sense of direction in their artwork.

JEWELRY DESIGN AND METALSMITHING TECHNIQUES
Grades 10, 11, 12
1 Semester
Prerequisite: Fundamentals of Art
Metalsmithing and Jewelry Design teaches concepts of three-dimensional design and creative problem solving. Students will learn basic metalsmithing techniques such as designing, sawing, piercing, soldering, casting, stone setting, and polishing. Each student will work contractually with the instructor on individual focus and receive personalized instruction and attention from the beginning of each jewelry project through its completion. Originality of student’s designs will be stressed.

ADVANCED JEWELRY DESIGN AND METALSMITHING TECHNIQUES
Grades 10, 11, 12
1 Semester
Prerequisite: Jewelry Design and Metalsmithing Techniques
Advanced Metalsmithing is a studio class for advanced students who will focus on the development of content and individual style in their artwork. Working contractually with the instructor, they will create and collect a substantial body of work. In addition, these students will research the work of contemporary metal artists in order to develop a sense of direction in their artwork.

PHOTOGRAPHY
Grades 10, 11, 12
1 Semester
Prerequisite: Fundamentals of Art
This course is an introduction photographic image making; including composition, traditional darkroom and digital techniques. This class is designed for the student who is interested in the entire photographic process, from taking the picture to the finished print. The philosophy of this course is based on photographic fundamentals, fine art and commercial photography. Cameras are not required, but recommended. A flash drive is very useful for the coursework.
ADVANCED PHOTOGRAPHY
Grades 10, 11, 12
1 Semester
Prerequisite: Photography
The focus of Advanced Photography is on the development of content and style in student artwork. Advanced students will work contractually with the instructor regarding individual focus within the context of the regular classroom setting. They will focus on the development of a substantial body of work. In addition, advanced students will research movements in art history and individual artists in order to develop a sense of direction in their artwork.

SCULPTURE
Grades 10, 11, 12
1 Semester
Prerequisite: Fundamentals of Art
Sculpture is a one-semester studio class incorporating principles of three-dimensional design. Students will work with clay, plaster, concrete, wood, stone and other materials. Realistic and abstract sculpture will be covered.

ADVANCED SCULPTURE
Grades 10, 11, 12
1 Semester
Prerequisite: Sculpture
The focus of Advanced Sculpture is on the development of content and style in student artwork. Advanced students will work contractually with the instructor regarding individual focus within the context of the regular classroom setting. They will focus on the development of a substantial body of work. In addition, advanced students will research movements in art history and individual artists in order to develop a sense of direction in their artwork.
BUSINESS AND COMPUTERS

**With the exception of Accounting, all business courses will count toward the Applied, Visual and Performing Arts Graduation Requirement.**

ACCOUNTING
Grades 11, 12
2 Semesters

This course may be counted as a 12th grade Mathematics experience.

Students considering a business career are strongly encouraged to take this course. University business programs require at least two accounting courses, which are typically used as weed-out classes. In fact, studies have shown a less than 50% success rate for students taking college-level accounting without any prior experience. This class develops an in-depth understanding of fundamental accounting systems focused on logic rather than memorization. Students will learn how to account for a variety of business types using both manual and computerized accounting systems. Students will also learn how to prepare, interpret and analyze financial statements. Upon completion students will have marketable office skills.

DESKTOP PUBLISHING
Grades 9, 10, 11, 12
1 Semester

Desktop Publishing is increasingly prevalent in our high-tech society. In this class, students will learn the fundamentals of graphic design and will use Adobe InDesign to do a variety of projects. Students will create flyers, brochures, newspapers, posters, magazine covers, CD case inserts, games, books and more. Good keyboarding skills are strongly recommended.

DIGITAL IMAGING AND MULTI MEDIA COMPUTING
Grades 9, 10, 11, 12
1 Semester

Students will gain hands-on experience and a solid understanding of sophisticated software and peripherals as they learn to produce a variety of computer images. They will also learn to integrate video, text, audio and graphics to deliver superior interactive presentations and web pages.

ENTREPRENEURSHIP
Grades 9, 10, 11, 12
1 Semester

The entrepreneurial spirit is alive and well! As the cornerstone of the American free enterprise system, entrepreneurs create the majority of new jobs in our economy and played a significant role in our country’s recovery during the recent recession. Students will learn how to develop, implement and evaluate business ideas. They will explore incorporation and basic legal issues, market analysis, business strategy, effective management, marketing and finance through the creation of a business plan for their own business idea.

INTRODUCTION TO BUSINESS
Grades 9, 10, 11, 12
1 Semester

Students will gain a general understanding of business, with emphasis on personal finance concepts. Students will develop an understanding of how our economy works and the opportunities available to us in the Free Enterprise System. In addition to the various aspects of the business world, topics will include: The New York Stock Exchange, Stocks and Bonds, Savings, Investments, Risk Management, The Banking System, Managing a Checking Account, and Credit-How to get it, Keep it and Manage it.
MS USER 1: WORD AND EXCEL

Grades 9, 10, 11, 12
1 Semester
Students who complete this course will be prepared for success on the MOUS Word and Excel certification tests that are given at area test centers. Whether in the job market or in education, students who hold MOUS certification gain significant advantages over their non-certified competitors. Good keyboarding skills are important in this course.

MS USER 2: POWERPOINT AND ACCESS

Grades 9, 10, 11, 12
1 Semester
Students who complete this course will be prepared for success on the MOUS PowerPoint and Access certification tests that are given at area test centers. Whether in the job market or in education, students who hold MOUS certification gain significant advantages over their non-certified competitors. This course also includes Outlook and Integration assignments. Good keyboarding skills are important in this course. MS User 1 is not a prerequisite to MS User 2.

VISUAL BASIC I

Grades 9, 10, 11, 12
1 Semester
Prerequisite: Algebra 1
This course may be taken as the 12th grade Mathematics experience.
This is an introductory level course designed to familiarize students with beginning concepts and skills in computer programming. This course incorporates experience with the VISUAL BASIC language. During the course, students are exposed to programming language, procedures, design, and problem solving. Students are expected to work independently and demonstrate their problem solving skills through the use of computer operation and program planning. Students are engaged in proficient demonstration of their skills by constructing appropriate algorithms and code for computer-assisted problem solving.
**DESIGN AND TECHNOLOGY**

**All design and technology courses will count toward the Applied, Visual and Performing Arts Graduation Requirements.**

**ELECTRONICS & CONTROL**

Grades 10, 11, 12
1 Semester
Prerequisite: Modern Technologies

*This course may be counted as a 12th grade Mathematics experience.*

The Electronics and Control class will provide each student with the opportunity to develop skills and knowledge in electronics and associated applications, enabling him/her to successfully enter this exciting and constantly changing career field. Students will be exposed to fundamental electronics and associated control concepts. The operation of components such as batteries, switches, resistors, potentiometers, LEDs, capacitors, logic gates, solenoids and relays will be examined. Also covered in this course is bread boarding, soldering, use of hand tools, and the proper usage of a wide array of testing equipment. Project based instruction will provide the student with opportunities to take part in extensive hands-on group and individual laboratory activities.

**ENGINEERING PROJECTS**

Grades 9, 10, 11, 12
1 Semester
Prerequisite: Modern Technologies

*This course may be counted as a 12th grade Mathematics experience.*

The Engineering Projects class builds on skills taught in the Modern Technologies with emphasis on designing and implementing a student project. Students will be able to fully realize their ideas by blending the creative design process with realistic problem-solving activities. Students will continue to develop their technological problem solving skills as they work with structural, mechanical, electrical and computer-control activities. To encourage creativity, most assignments are open-ended and range from instructor-planned to student-generated, with students gradually assuming more control over projects as the course progresses. Each student’s final project will be based on personal interests and will incorporate problem-finding, as well as problem solving.

**MODERN TECHNOLOGIES**

Grades 9, 10, 11, 12
1 Semester

The Modern Technologies class is designed so that students can blend the creative design process with realistic problem solving activities, giving them an opportunity to fully realize ideas. Students will discover their place on the engineering team and determine if their aptitudes and interests are in the realm of the scientist, the engineer, the technician, or the craftsperson. The course will cover the engineering team; the process of design; technical communications; materials science; modeling processes and prototyping; and realistic design projects. Projects relating to several engineering fields are included so students can experience different roles within the team and advance their career awareness and direction.
ROBOTICS & AUTOMATION
Grades 9, 10, 11, 12
1 Semester
Prerequisite: Modern Technologies
This course may be counted as a 12th grade Mathematics experience.
The Robotics and Automation class introduces concepts that will allow students to function productively in industrial automation both from an applications (engineering) position, as well as a service (maintenance) type position. Students use robotics with programmable controllers, as well as conventional control systems to solve problems in an industrial flexible manufacturing laboratory. The Robotics curriculum trains students on various types of electrical equipment, such as DC and AC motors, transformers, state-of-the-art test equipment, computer-based robot control, and programmable logic controllers. Troubleshooting hardware and software systems of an automated system, along with concepts of how the two are integrated are important parts of the training.

TECHNICAL DRAWING/CAD
Grades 9, 10, 11, 12
2 Semesters
Prerequisite: Algebra I (may be concurrent)
Technical Drawing/CAD is recommended for students interested in engineering, technical drawing, animation, graphic design, architecture, interior design or any of the construction or manufacturing areas. At some point in our lives all of us will need the ability to communicate an idea graphically. This course presents the various basic fundamentals of drafting and computer-aided drawing (CAD). Areas covered are: sketching, use of drawing equipment, sectional views, 3D pictorials, and dimensioning. Students will complete drawings using both traditional instruments and Auto Cad software. Employability skills are emphasized. This course and the succeeding courses show relevant math tie-ins and real life application of math principles.

ADVANCED TECHNICAL DRAWING/CAD
Grades 10, 11, 12
2 Semesters
Prerequisite: Technical Drawing/CAD
This course may be counted as a 12th grade Mathematics experience.
Students will gain a sound understanding of points, planes and lines, and their relationships between different views. This course is essential to developing skills needed to allow the student to later move into computer generated 3D design. Areas covered are advanced auxiliary, development and intersection, threads and fasteners, descriptive geometry, cams and gears, welding drawings, and detail and assembly drawings. Integration of previously learned computer skills and advanced application of AutoCad’s abilities will be integrated into the completion of applicable assignments Employability skills are emphasized. High ability in this course can lead to promising careers in engineering, CAD, and other technical design fields.
ENGLISH

If a student is uncertain of course choices (including Honors and AP courses) they should discuss their options with their current teachers.

ENGLISH 9
Grade 9
2 Semesters
Required for graduation
Students will develop literature, public speaking, language, and composition skills by exploring major literary themes in a variety of genres (fiction, nonfiction, poetry, and drama). Themes include: Reality Perception, Relationships, Expectations and Turning Points. Particular emphasis is placed on student’s ability to draw conclusions and support their opinions. A personal and analytical composition is required for each major theme examined. Students are introduced to current research techniques. At least one Shakespearean play is read.

ENGLISH 9 HONORS
Grade 9
2 Semesters
Meets the English 9 graduation requirement
Students will develop literature, public speaking, language, and composition skills by exploring major literary themes in a variety of genres (fiction, nonfiction, poetry and drama). Themes include: Reality perception, Relationships, Expectations and Turning Points. Particular emphasis is placed on student’s ability to read a variety of selections on a related theme, draw conclusions and support students' opinions. Personal and analytical compositions are required for major themes. Students are introduced to current research techniques. At least one Shakespearean play is read. Students will be assigned reading, writing and research not required in the regular English 9 class.

ENGLISH 9 LAB
Grade 9
2 Semesters
To be taken simultaneously with English 9
Recommendation only.
English 9 lab is designed to support 9th grade students who need support in gaining strong skills in reading and writing that are necessary to their success in future high school and college courses. Potential students are identified on the basis of their performance on objective assessments and past achievement. English 9 Lab will provide an elective credit toward graduation but will not fulfill any departmental requirements.

ENGLISH 10
Grade 10
2 Semesters
Prerequisite: English 9
Required for graduation
This class will introduce the excellence and variety of American Literature. The course will begin with the oral tradition of the native inhabitants and the writings of early explorers of The New World; move into the chronicles and meditations of the Puritans, to the documents of our nation’s founders; and finally, to the identifiable voices of the early Romantics. The second semester will concentrate on post-Civil War Literature, the modern era, and the contemporary period. Students will examine literary texts in their political, cultural and intellectual contexts as they develop their own skills as writers and critical readers.
ENGLISH 10 HONORS

Grade 10  
2 Semesters  
Meets the English 10 graduation requirement  
This two-semester course is a chronological survey of American Literature from the Native Americans to Contemporary Authors. Numerous supplementary readings and essays will be required. Students will be required to analyze literature from several critical perspectives and will be expected to do in-depth research.

JOURNALISM

Grades 9, 10, 11, 12  
2 Semesters  
This course may be counted as a 12th grade English experience.  
This is a course for students who like to write! It emphasizes journalistic writing styles and skills necessary in publication production. Students will practice interviewing techniques and editing skills as they write news stories, features, sports stories, editorials and reviews. They will also examine the role of the press, journalistic law and ethics, in addition to learning such production skills as copy reading, headline writing, page design, typography, photography, and advertising. This course prepares students to work on the school yearbook. While it is open to seniors, students interested in journalism are advised to elect it before their senior year so they may advance to work on a publication.

ADVANCED PLACEMENT ENGLISH LANGUAGE AND COMPOSITION

Grade 11, 12  
2 Semesters  
Summer work may be required  
The AP English Language and Composition course aligns to an introductory college-level rhetoric and writing curriculum, which requires students to develop evidence-based analytic and argumentative essays that proceed through several stages or drafts. Students evaluate, synthesize, and cite research to support their arguments. Throughout the course, students develop a personal style by making appropriate grammatical choices. Additionally, students read and analyze the rhetorical elements and their effects in non-fiction (primarily) and some fiction texts from many disciplines and historical periods.

ADVANCED PLACEMENT ENGLISH LITERATURE AND COMPOSITION

Grade 12  
2 Semesters  
Successful completion of British Literature or Classical Literature is strongly recommended.  
AP English is a college-level course that requires extensive reading and writing. The focus is on analyzing classic novels, essays, poetry and plays and then writing critical literary essays in preparation for the Advanced Placement Literature and Composition Test that is given nationally in May of each year. Essays will be written both as homework and as timed writing in class. Oral presentations are required and comprehension tests are given over the literature before it is discussed in class. The fourth quarter includes the writing of a research paper exploring a literary topic. Students enrolled in AP English Literature and Composition will be required to read one fiction text and one non-fiction text during the summer. Texts and assessment from the instructor must be received with enough time for students to complete before Fall semester begins in order for students to enroll. The student’s understanding of both texts will be assessed in writing or in speech during the first semester.

BRITISH LITERATURE

Grades 11, 12  
2 Semesters  
Students will experience a survey of British literature from the 10th century through the present with emphasis on English history and the evolution of modern thought and expression. Students will find mysticism, romance and high adventure, as well as political satire and intrigue as they immerse themselves in the literary masterpieces that are read in this course. Lively discussions ensue as students analyze poetry, plays and essays. Writing assignments include personal and analytical essays, research projects and a variety of well-developed expository and creative compositions.
CLASSICAL LITERATURE & THOUGHT

Grades 11, 12  
2 Semesters

This challenging college preparatory course is designed to give students a broad liberal arts experience. Focus is on Great Literature and Philosophy of the Western World from ancient Greece and Rome to the early 20th Century and is supplemented with guest speakers and field trips for closer study. Students will write several papers, do in-depth research, and write numerous essay tests.

READING & WRITING FOR THE COLLEGE BOUND

Grade 12  
2 Semesters

This challenging college preparatory course focuses primarily on non-fiction reading and writing. The student will be required to write several short non-fiction essays, culminating in the writing of a 10-15 page argumentative research paper in APA format. In addition, the student will be required to study and evaluate a multitude of non-fiction texts across the curriculum—e.g., Mathematics, Science, Social Studies, Humanities, and Technology. Collegiate level reading strategies will be emphasized and employed as will the students being required to evaluate texts by the use of Rhetorical Devices. Students will also be held accountable for the correct and effective use of conventions and formats, including technological formats students might encounter at the college level. Students will also be required to evaluate texts, writing, and media orally.

TWENTIETH CENTURY PERSPECTIVES

Grades 11, 12  
2 Semesters

Twentieth Century Perspectives is designed for students interested in examining contemporary literature and changing perspectives. Using twentieth century literature, film excerpts and philosophical essays, the course traces shifts in thinking and expression from the early 1900s to the present and discusses issues that have influenced the development of modern thought. Organized around the universal themes of alienation, disillusionment, the role of technology, and restoration, Twentieth Century Perspectives also introduces students to literary theory (Marxism, Feminism, Deconstruction, Existentialism, Psychoanalytic and Reader Response).

WORLD LITERATURE

Grades 11, 12  
2 Semesters

Following a thematic approach to literature from around the world, students will expand their communication and analytical skills, as they develop a deeper understanding of enduring issues and problems that cross time and culture. Including study of world religions and modern parallels to ancient ideas, this course introduces students to literary masterpieces from early Greek and Roman civilizations, the Middle Ages, the Renaissance period, the Age of Romanticism and finally the Age of Realism.

FYI! 11th Grade English Choices

Juniors are required to earn credit in a 2 semester, literature based course. Students may choose from:  
- World Literature  
- 20th Century Perspectives  
- Classical Literature & Thought  
- British Literature

Juniors who elect to take AP Language & Composition will be required to take a literature course during the senior year. (AP Literature or any of the above literature courses taken during the senior year will fulfill this requirement.)
MATHEMATICS

If a student is uncertain of course choices (including AP courses) they should discuss their options with their current teachers.

ALGEBRA 1

Grade 9
2 Semesters
Required for graduation. Credit for this course may be obtained with successful completion of the middle school Algebra 1 course.

Algebra 1 is a high school graduation requirement that begins to build the comprehensive mathematical knowledge base students need to move on to higher-level mathematics courses. This course is rich with mathematical investigations and applications that encourage exploration of number systems, number sense, data, patterns, and relationships. There is also an introduction to geometry, data analysis, discrete mathematics, and statistics.

ALGEBRA 2

Grades 9, 10, 11, 12
2 Semesters
Required for graduation
Prerequisite: Geometry

This is a preparatory course for entrance into college. The increasing use of Algebraic methods in all disciplines and professions has made algebra the fundamental tool for mathematical applications. This course will focus on the analytical use of algebra to solve both theoretical and real-world problems. This course builds upon concepts taught in Algebra 1 and Geometry while adding new concepts to the student’s repertoire. Algebra 2 continues the study of exponential and logarithmic functions and expands student’s use of function families to include rational and trigonometric functions. The topic of conic sections fuses algebra with geometry. The purpose of Algebra 2 is to give students a rigorous understanding of the theoretical study of mathematical patterns and relationships and the language that allows us to make sense of the mathematical symbols.

ALGEBRA 2 IN THE WORKPLACE

Grades 10, 11, 12
2 Semesters
Prerequisites: Geometry
Meets the Algebra 2 graduation requirement

This is a preparatory course for entrance into college or the workplace. Students who plan a college major in engineering, mathematics and/or the medical sciences are advised to take the Algebra 2 course. Students will develop computational skills and mathematical understanding that algebraic thinking is an accessible and powerful tool that can be used to model and solve real-world problems. These problems can be found all around us: the workplace, the sciences: technology, engineering and mathematics. This course builds upon concepts taught in Algebra 1 and Geometry while adding new concepts and relating them to workplace applications. Applying Algebra 2 concepts to real-world problems such as scheduling and networks, students experience both the complexity of such problems and their mathematical connections. Companies such as UPS, Fed Ex, Delta Airlines, hospitals, and others all apply Algebra 2 concepts to solve these and many other workplace problems.
ALGEBRA 2 IN THE WORKPLACE LAB

Grades 10, 11, 12
2 Semesters
To be taken simultaneously with Algebra 2 in the Workplace and teacher recommendation required.
Potential candidates are identified based on previous math performance. Student candidates for this lab and their parents will be contacted by counselor and/or lab facilitator during the enrollment window.
Algebra 2 Lab is designed to help students who do not have a strong foundation in the algebraic skills necessary for success in Algebra 2. It is designed for those who have consistently experienced difficulty in their math courses and on various assessments. When taken in conjunction with Algebra 2, this course will help them build a strong foundation upon which to build for success in more advanced mathematics courses. Potential candidates are identified on the basis of their performance on objective assessments and past achievement. Algebra 2 Lab will count as an elective credit toward graduation, but will not fulfill any departmental requirements.

DATA ANALYSIS AND PROBABILITY

Grades 11, 12
2 Semesters
Prerequisite: Algebra 2 or Algebra 2 in the Workplace
Data Analysis and Probability is a preparatory course for entrance into college or the workplace. This course moves away from the theoretical computation to focus on the statistical thinking behind data gathering and interpretation and probability or chance. This course reflects the way working statisticians contribute to our understanding of the world. It also helps students become more discerning consumers of data and statistics, information, and gaming; teaching students to look closely at what the numbers from surveys, election polls and medical studies are really saying.

FUNCTIONS, STATISTICS, AND TRIGONOMETRY (FST)

2 semesters
Grades 11, 12
Prerequisite: Algebra 2 or Algebra 2 in the Workplace
FST is appropriate for the serious math student who has met the prerequisites and is a preparatory course for the entrance into college or the workplace. Students may select to sequence this course before or after Data Analysis and Probability. Upon completing Algebra 2 some students may desire additional background in advanced functions before taking Pre-Calculus and may elect this course to prepare them for future math work. This course builds on Algebra 2 concepts generating greater understanding and computational skill in the use of advanced functions. The first semester engages students in polynomial and rational functions, exponential and logarithmic functions, systems of equations and inequalities, and matrices. During the second semester students will expand their mathematical understanding of trigonometry through a variety of topics that include application of trigonometric functions, trigonometric equations, The Law of Sines, and Law of Cosines. This course ends the year with data analysis interpretation. Statistical thinking and reasoning are emphasized to provide greater understanding in how working statisticians contribute to our understanding of the world.

GEOMETRY

Grades 9, 10, 11, 12
2 Semesters
Required for Graduation
Prerequisite: Algebra 1
In this course, students explore geometric concepts analytically, inductively, and finally deductively, after learning definitions, properties of congruencies, and postulates of geometry. Students will practice algebra skills independently and in applications to geometric figures. Concepts covered include mathematical reasoning, geometric figures and properties, and transformations.
PRE-CALCULUS
Grades 10, 11, 12
2 Semesters
Prerequisite: Algebra 2
This course is designed to prepare a student for college level work in mathematics. Trigonometry, vectors, elementary functions, and a wide variety of other pre-calculus topics are treated. This course is highly recommended for students who wish to pursue a career in the sciences. Homework is assigned daily and the student may expect to devote 45-60 minutes daily outside of class.

ADVANCED PLACEMENT CALCULUS AB
Grades 11, 12
2 Semesters
Prerequisite: Completion of Pre-Calculus with no card-marking or exam grade lower than a C.
Students will study the theoretical development and algebraic aspects of the differential and integral calculus of functions of a single variable. Students should expect to spend about 60 minutes daily in outside preparation. Upon successful completion of the AP Calculus AB exam, students may receive college credit and/or placement for one semester of college mathematics.

ADVANCED PLACEMENT STATISTICS
Grades 11, 12
2 Semesters
Prerequisite: Completion of Algebra 2 with no card-marking or exam grade lower than a C.
Students will study the major concepts and tools for collecting, analyzing and drawing conclusions from data. This course covers the content of the AP Statistics needed for the Advanced Placement test given in May. Upon successful completion of the AP exam, students may receive credit, advanced placement or both, for one semester of college mathematics. Students should expect to spend about 60 minutes daily in outside preparation.

CONSUMER MATH
Grade 12
1 Semester
Prerequisite: Student has taken at least the first semester of Algebra 2 or Algebra 2 in the Workplace
In Consumer Math, students study and review arithmetic skills they can apply in their personal lives and in their future careers.
The course focuses on occupational and personal finance topics, including details on jobs; wages; deductions; Federal and State taxes; insurance; checking and savings accounts; budgeting; loans and buying on credit; automobile expenses; housing expenses and making smart consumer choices.
MUSIC

** All music courses will count toward the Visual, Applied and Performing Arts Graduation Requirement.**

CHOIRS:

COUGAR CHORALE
Grades 9, 10, 11, 12
2 Semesters
Prerequisites: None
The Cougar Chorale is an exciting mixed choir that rehearses together daily and performs four engaging concerts each year at SLEHS, school activities, community events and festivals sponsored by the Michigan School Vocal Music Association (MSVMA). Members of the Cougar Chorale will be guided through the fundamentals of superior tone production, rehearsal techniques, performance skills and basic music theory. This great course is open to all singers in their first year of choral participation and may be repeated. Choir is a Co-Curricular class and all performances are part of the class grade.

BEL CANTO
Grades 10, 11, 12
2 Semesters
Prerequisites: One full year of participation in Cougar Chorale and a successful audition into Bel Canto (auditions take place during the month of May for admittance in the following academic year).
Bel Canto is a select girls’ choir that rehearses daily and performs at least four concerts each year at SLEHS, school activities, community events and festivals sponsored by the Michigan School Vocal Music Association (MSVMA). This class is designed for the self-motivated singer who is interested in preparing and performing at a high level. Members of Bel Canto will develop and refine skills in tone production, rehearsal techniques, performance skills and music theory. Members are encouraged to participate in Solo & Ensemble and Honors Choir. Choir is a Co-Curricular class and all performances are part of the class grade.

EAST VOCAL ENSEMBLE
Grades 10, 11, 12
2 Semesters
Prerequisites: One full year of participation in Cougar Chorale and a successful audition into the East Vocal Ensemble (auditions take place during the month of May for admittance in the following academic year). The East Vocal Ensemble is an advanced, select mixed chorus of 10th-12th grade students who have demonstrated superior musical ability. Students will study advanced choral literature written for mixed voices in four to eight parts from a variety of musical time periods and styles. Students must be ready to pursue advanced music-reading skills. Members will study many styles of choral literature, including major works. Members are encouraged to participate in Solo & Ensemble and Honors Choir. Performances are an integral part of the music curriculum, which may include concerts, festivals, solos, ensembles, recitals, and appearances within the community when appropriate. Choir is a Co-Curricular class and all performances are part of the class grade.
PIANO LAB

Grades 9, 10, 11, 12
1 Semester
No prerequisite. With instructor’s permission, this course may be repeated for credit.
Piano Lab is an individualized beginning piano class for students who wish to learn how to read music. Students begin with basic notation and work toward the use of two hands. Keyboards and pianos will be available for student use during school hours and on a limited basis after school. Students do not need a keyboard or piano at home to be successful in this course. Some performance outside of class may be necessary later in the semester.

CONCERT BAND

Grades 9
2 Semesters
An instrumental music course designed for students refining their abilities for future placement in Symphony Band. Students will receive instruction to develop basic range, tone, vibrato, intonation, technique, and style skills. Performances and dress rehearsals are required of this course that will occur outside of the scheduled school day. Attendance at these events is mandatory and the dates will be provided to the members prior to the first day of class.

SYMPHONIC BAND

Grades 10, 11, 12
2 Semesters
An instrumental music course designed for students with a select set of abilities. Selection for this course will be determined by an audition set up by the band director. Specifics for range, vibrato, tone quality, intonation, style, and technique can be obtained from the director. Students of this ensemble must also exhibit exceptional habits of mind. Performances and dress rehearsals are required of this course that will occur outside of the scheduled school day. Attendance at these events is mandatory and the dates will be provided to the members prior to the first day of class.

Note: As of the 2016-2017 school year, marching band will be an extra-curricular activity and participation will not be required by students enrolled in Symphony Band or Concert Band.
** All Performing Arts courses will count toward the Visual, Applied and Performing Arts Graduation Requirement.**

**DRAMA**
Grades 9, 10, 11, 12
1 Semester
Students will learn basic acting, speaking and improvisational skills, as well as techniques for speaking in front of others to gain poise. Students will study various forms of dramatic productions and perform skits in class. Students will be required to see the SLHS main stage production if they are not part of the cast or crew.

**THEATRE CRAFTS**
Grades 9, 10, 11, 12
1 Semester
Students will gain the “behind the scenes” knowledge and skills necessary to put a show together- publicity, set design, flat construction, costuming, props, lighting and sound. In addition, each student is required to work on a crew for the current main stage production.
PHYSICAL EDUCATION

FITNESS AND LIFETIME SPORTS
Grades 10, 11, 12
1 Semester
Prerequisite: Foundations of Health and PE/Healthy Life Habits
Lifetime Sports teaches students the basics of archery, golf, tennis, pickle ball, table tennis, and badminton. Grades will be determined by performance and written tests. FEES WILL BE CHARGED FOR GOLF. Alternate activities will be offered when financial hardships occur.

FITNESS AND TEAM SPORTS
Grades 10, 11, 12
1 Semester
Prerequisite: Foundations of Health and PE/Healthy Life Habits
This class will offer flag football, basketball, soccer, softball, and volleyball.

FOUNDATIONS OF HEALTH AND PHYSICAL EDUCATION
Grades 9, 10, 11, 12
1 Semester
Required for graduation
Students are introduced to health and fitness concepts through a unique combination of classroom and physical education facilities. What is learned in the classroom is experienced through various fitness, swimming and cardiovascular fitness. Students become aware that decisions they make about their health affect them today and the rest of their lives. At the conclusion of the class, students will use data collected and information learned to begin to develop a personal fitness program.

HEALTHY LIFE HABITS
Grades 9, 10, 11, 12
1 Semester
Prerequisite: Foundations of Health and PE
Required for graduation
Students will apply the information learned in Foundations of Health and Physical Education to write, implement and evaluate a personal fitness program. Pre-fitness assessments will determine short and long-term goals. The students will be active primarily in the Fitness Center but will also participate in other facilities in the physical education area. Data logs will be maintained as students track their progress. Post-fitness assessments will be performed at the end of the semester to evaluate success in the fitness program. The class also includes CPR certification.

PERSONAL CONDITIONING
Grades 10, 11, 12
1 Semester
Prerequisites: Foundations of Health and PE/Healthy Life Habits
This class combines weight training with running, calisthenics, flexibility activities and other aspects of health and physical fitness training to improve individual strength and endurance. The 1 mile run and 1-1/2 mile run are required activities throughout the semester. Personal Conditioning offers students an experience full of rigorous physical fitness opportunities throughout the semester.

PLEASE NOTE: Students are allowed only one PE class per semester.
SCIENCE

If a student is uncertain of course choices (including AP courses) they should discuss their options with their current teachers.

AGRICULTURAL SCIENCE
Grades 10, 11, 12
2 semesters
Online course only offered through 21F. Course description available at https://micourses.org. Requires counselor/administrator approval.

ANATOMY & PHYSIOLOGY
Grades 11, 12
2 semesters
Prerequisites: Successful completion of Biology and either Analytical Chemistry or Chemistry.

This elective course satisfies 1 credit of the science graduation requirements with counselor and administrator approval.

This year-long elective science course investigates the structure and function of the human body at multiple levels: individual cells, their coming together to form tissues, the organization of tissues into organs, organs working together as parts of organ systems, and finally how those organ systems support one another to maintain the body.

There will be a variety of lab activities, including several microscopic analyses of tissue specimens as well as viewing images of the gross anatomy of previously dissected human cadavers. Dissection is an integral part of this course. Students will participate in multiple hands-on dissection sessions with a cat in addition to organs such as the heart and eye of a sheep. Students who are interested in enrolling in the course but have reservations about dissection should discuss their concerns with the instructor prior to enrolling in the course.

This rigorous course is appropriate for students interested in healthcare-related fields, especially those students who plan to pursue careers in areas such as medicine, nursing, physical or occupational therapy, and athletic training, or for those who plan to enter education as either a life-science or physical education teacher. Topics of study focus on human organ systems such as the Integumentary System, Nervous System, Lymphatic System, Digestive System and Urinary System. The course also delves deeper into the organ systems that were previously taught in freshman biology.

BIOLOGY
Grade 9
2 Semesters
Required for Graduation

This introductory course will focus on five major topics: cells, heredity, evolution, living things, and ecosystems. Emphasis will be placed on the student’s ability to use scientific knowledge to describe and explain real-world objects, systems or events, predict future events, and design systems or courses of action that enable people to adapt to and modify the world around them. This course will help students develop critical thinking and interpretive skills that can be applied in other areas of their education.
ADVANCED PLACEMENT BIOLOGY
Grades 11, 12
2 Semesters
Prerequisite: Analytical Chemistry
AP Biology is a transitional course between high school and college. At the college level, this course is required before any other specific interest biology course can be taken. Therefore, AP Biology is strongly recommended for students interested in pursuing careers in the field of biology, such as medicine, marine biology, genetics, ecology, microbiology, pharmacy, botany, etc. Like all AP courses, this class requires high levels of concentration, work and study. Summer work will be required as part of this course.

ANALYTICAL CHEMISTRY
Grades 10, 11, 12
2 Semesters
Meets the Chemistry graduation requirement
Prerequisites: Biology and Algebra 2 (may be concurrent).
Analytical Chemistry is designed for the student who is college-bound and planning a field of study related to the sciences. Students will study the underlying principles and theories of chemistry while using mathematical skills to solve problems. Topics include: behavior and properties of matter, types of matter, the periodic table, quantum mechanics, bonding, chemical reactions, solutions, acid/base and redox reactions, thermodynamics, and gas laws. Quantitative and qualitative laboratory work is integrated, along with numerous demonstrations. Formal lab reports are required. Homework and study will require 30-45 minutes per day. Graphic calculators and hand-held data collectors will be used. This course prepares students to move on to Physics, AP Biology and AP Chemistry.

CHEMISTRY
Grades 11, 12
2 Semesters
Prerequisite: Biology, Algebra 1 and Geophysical Science.
Meets the Chemistry graduation requirement
Chemistry is designed for the student who is college-bound and planning on a field of study in the liberal arts or who wishes to be a well-informed citizen and consumer. This course meets state-mandated chemistry benchmarks and covers the same topics as Analytical Chemistry but from the “How do I use this in everyday life?” perspective. Labs and hands-on activities are integral parts of this course, along with class discussions, research, and debates. Formal reports and presentations are required. Homework, research and study will require at least 30 min per day. NOTE: Students taking this course will not gain the necessary preparation to move on to Physics, AP Biology, or AP Chemistry.

ADVANCED PLACEMENT CHEMISTRY
Grades 11, 12
2 Semesters
Prerequisite: Analytical Chemistry and Pre-Calculus (may be concurrent).
This course will cover the content of Advanced Placement Chemistry needed for the AP test given in the spring. Kinetics, equilibrium, thermodynamics, electrochemistry, atomic structures and bonding are some of the topics covered. Laboratory work will develop analytical thinking, chemical calculations, quality evaluations, as well as written communications in the form of formal lab reports. Homework and class preparation are very important for this course and will require a minimum of 1 hour per day to complete text reading and studying. Some labs may require before or after school time. Summer work will be assigned by the course instructor before the end of the preceding school year. This assignment reviews material that students will be expected to know from Analytical Chemistry to be successful in AP Chemistry. The assignment is expected to be completed by the student prior to the start of the next school year.
ENVIRONMENTAL STUDIES
Grades 11, 12
1 Semester
Environmental Studies is a research-discussion-debate course dealing with careful analysis of the various interactions that are taking place between modern humans and their environment. Issues such as overpopulation, pollution, loss of resources, destruction of biomes, and conservation will be studied. Along with the alternatives for the future, emphasis is placed on direct student involvement in specially designed research projects, discussion programs, and lab-type activities. A deep concern for the Earth and its future is a prerequisite for this course.

GEOPHYSICAL SCIENCE
Grades 10, 11, 12
2 Semesters
Prerequisite: Biology
Meets the Physical Science graduation requirement.
This class is usually taken in the sophomore year. Geophysical Science provides students with a knowledge of certain aspects of Physics and Earth Science that allows understanding in other sciences and everyday experiences such as heat exchanges in the atmosphere as they relate to weather; pressure and temperature differences that cause different geological formations; radiation of electromagnetic energy and its effect on photosynthesis; the behavior of light and the eye; electricity, electromagnetic waves and your cell phone; nuclear fission and power plants; fusion and the sun; atomic structure and chemical reactions.

PHYSICS
Grades 11, 12
2 Semesters
Prerequisite: Analytical Chemistry and Algebra 2
Meets the Physical Science graduation requirement.
This course may be taken as the 12th grade Mathematics experience.
Physics is designed not only for the college or technical-bound student, but also for the thinking student who is curious about natural phenomena and the interaction of matter and energy. This course covers mechanics (forces acting on mass); heat (what it is and its effects on matter); sound sources and sound propagation; wave phenomena; light as energy and as a medium for transmitting information; optics of mirrors and lenses; basic electricity and electrical effects and nuclear physics. The subject develops and expands a few basic definitions into an “inverted pyramid” of knowledge with emphasis on application of knowledge to problems, laboratory investigations and other practical applications. Homework and study require at least 45 minutes outside of class per day.

ADVANCED PLACEMENT PHYSICS C: MECHANICS
Grades 11, 12
2 Semesters
Prerequisite: Physics & Calculus AB (may be concurrent).
This course may be taken as the 12th grade Mathematics experience.
AP Physics C forms the first part of the college sequence for students who plan to major in engineering, chemistry and physics. This course will cover mechanics and in greater depth and greater mathematical sophistication (including calculus) than your previous physics course. Practice with problem solving is a significant part of the course. Students who are successful on the AP Physics C exam in the spring may be granted college credit or advanced placement. Students will acquire sound knowledge in the subject and develop creative thinking skills. They should plan to spend at least one hour each night in preparation for this class. Occasionally, extra time after school will be required.
OCEANOGRAPHY AND METEOROLOGY
Grades 11, 12
1 Semester
Oceanography and Meteorology is a vast, diverse and changing field of study which introduces students to the world’s weather patterns and its oceans. Lab exercises, internet and technology based projects enhance the development of this course. Students will examine the current state of our oceans and how they affect our weather. Emphasis will be placed on the chemistry, biology and physics of these systems and how they affect human beings. The fundamentals of meteorology, along with the study of severe and unusual weather, principles of climatology, forecasting, and meteorological instruments will provide students with an in-depth understanding of how our weather works.
SENIOR PROJECTS COURSE

Grade 12, Second Semester Only
The senior project at SLEHS allows students to demonstrate through application and reflection the skills they have learned during their high school years. Students will develop their projects based on their personal interests and their abilities to highlight critical thinking and problem solving skills. Seniors will gain an understanding of the relevance of their studies and connections with the community through the Design and Technology Pathway or Business and Computer Pathway here at SLEHS. It is our hope that our seniors will grow through this process.

This course is student driven, in that students choose a topic and implement the project on their own. The student activities are based around semi-structured problems found in life and work beyond school—Academic, Community Service, Career Oriented, Personal Growth—that focuses on increasing student engagement, improving student performance—and possibly can act as a guide for students toward their post-high school plans.

Students will discover …
• Individual effort is important and valued
• Flexibility is necessary
• Personal sacrifice may be tied to personal gain
• One must learn to work solo
• One must learn to work with someone else
• Asking a critical question is an important skill
• Best-made plans may not always work
• Self-evaluation is constant
• Learning can be fun
• Creativity is required
• Personal ownership, engagement, and motivation
• Interpersonal skills are practiced
• Personal growth and empowerment are powerful and sustaining
SOCIAL STUDIES

If a student is uncertain of other course choices (including AP courses) they should discuss their options with their current teachers.

20th CENTURY AMERICAN HISTORY
Grade 9: 2 Semesters
Required for graduation
Students will examine the history of the United States from its emergence as a world power (late 1800s) to present day. Major eras studied will include: Imperialism, WWI, the 1920s, The Great Depression, WWII, Cold War and Contemporary America. Students will learn to place major events of the century on a timeline and analyze their causes and effects. Students will use a variety of methods for historical evaluation and will begin to develop the critical thinking skills necessary to interpret present day events.

WORLD STUDIES
Grade 10: 2 Semesters
Required for Graduation
Students will study societies—past and present—from all over the world, as well as modern developments of global significance. By examining how decisions made in the past impact the present and future, students will build a common memory of where humankind has been. Within a historical and geographical context, students will develop comparative and casual analyses, interpret the historical record, and construct sound historical arguments and perspectives on which informed decisions in contemporary life can be made.

GOVERNMENT
Grade 11, 12: 1 Semester
Required for graduation
This is a one semester course required for all juniors and examines the body of rules by which people must live. The rules make up what is commonly called law. Before law has meaning, it must have structure, function and application. From your study of government, you will learn how laws come to be made, how they function and why their application has meaning for you and others in the United States.

ADVANCED PLACEMENT GOVERNMENT AND POLITICS
Grades 11, 12: 1 Semester
AP Government is for advanced social studies students wishing to prepare for the advanced placement test given each spring. This course includes the study of general concepts of government as well as various groups, people and ideas of American politics. Students will be expected to demonstrate in written and oral form knowledge of a variety of theoretical perspectives and explanations for various behaviors and outcomes. Students will be expected to complete extensive readings and writings on political theory and politics in action in addition to taking the AP exam in the spring. Successful completion of AP government will fulfill the government requirement for graduation.

PSYCHOLOGY
Grades 11, 12: 1 Semester
Have you ever wondered why your friends and family behave the way they do? Are you fascinated by the wonders of the mind? Then Psychology is the class for you. Psychology is a general introduction to the study of human behavior. Such topics as human development, personality, intelligence, altered states, therapy, psychological disorders, and learning theory will be covered. Students will participate in a variety of activities and experiments designed to demonstrate various psychological concepts. This is a hands-on class that uses case studies and actual psychological tools to find the answers to the questions that plague your mind.
**ECONOMICS**

Grade 11, 12: 1 Semester  
This one semester course introduces the discipline of economics. The over-arching problem of scarcity—unlimited human wants pursuing limited resources—is the focal point of this course. In addition to macro-economics, students will study personal finance and business in a free market society. Other topics will include the stock market, taxation, productivity, marketing and advertising.

**ADVANCED PLACEMENT MACROECONOMICS**

Grades 11, 12: 1 Semester  
Prerequisites: Algebra 2 (may be concurrent)  
*This course may be taken as the 12th grade Mathematics experience.*  
This course will focus on helping students learn to apply basic microeconomic concepts to a larger (macro) scale. Students will analyze such macroeconomic concepts as the national output (GDP), inflation, and unemployment in both the U.S. and world economies. Students will learn various economic policies and apply their knowledge to solve real world economic situations. In addition, students will gain an in-depth understanding of international finance, exchange rates and global trade. This course will cover the macroeconomic content of the Advanced Placement Exam given every spring. Successful completion of AP macroeconomics will fulfill the economics requirement for graduation.

**ADVANCED PLACEMENT MICROECONOMICS**

Grades 11, 12: 1 Semester  
Prerequisites: Algebra 2 (may be concurrent)  
*This course may be taken as the 12th grade Mathematics experience.*  
This course will focus on helping students comprehend the principles essential for understanding basic microeconomic issues. Students will analyze how consumer behavior and production decisions are made in various market structures with an emphasis on consumer satisfaction and profit maximization. Students will also examine the labor market and the role of government as it relates to economic issues and policies. This course will cover the microeconomic content of the Advanced Placement exam that is given in the spring. Successful completion of AP microeconomics will fulfill the economics requirement for graduation.

**ADVANCED PLACEMENT U.S. HISTORY** will be offered during the 2018-19 school year; this course alternates with AP World History.  
Grades 11, 12: 2 Semesters  
AP U.S. History is designed for juniors and seniors who want advanced study in American History. Substantial emphasis will be placed on reading and writing skills. In-depth study of our nation’s history from Colonial America through the present will prepare students for the AP U.S. History examination. Summer reading and assignments may be required.

**ADVANCED PLACEMENT WORLD HISTORY** will be offered during the 2017-18 school year; this course alternates with AP U.S. History.  
Grades 11, 12: 2 Semesters  
AP World History offers balanced global coverage with Africa, the Americas, Asia, Europe, and Oceania all represented. The Course highlights the nature of changes in global frameworks and their causes and consequences, as well as comparisons among major societies. It emphasizes relevant factual knowledge, leading interpretive issues, and skills in analyzing different types of historical evidence. Advanced social studies students will be expected to achieve college level analytical and writing capacities, which are designed to prepare them for Advanced Placement Exam given nationally in May of each year. Summer reading and assignments may be required.
**WORLD LANGUAGE**

*All World Language courses fulfill the World Language graduation requirement.*

*All level one World Language courses successfully completed during middle school will meet one year of the World Language graduation requirement.*

**CHINESE 2**  
Grades 9, 10, 11, 12  
2 Semesters  
Prerequisite: Chinese 1  
Chinese II continues to introduce students to the Chinese language and culture. The emphasis is placed on developing authentic communication in Chinese relating to everyday topics such as weather, clothing, school, transportation and food. Instruction and assessment will be aligned to district, state and national world language standards. Reading and writing instruction will focus on simplified Chinese characters.

**CHINESE 3**  
Grades 10, 11, 12  
2 Semesters  
Prerequisite: Chinese 2 or approval of instructor  
Chinese 3 improves the student’s ability to use Chinese Languages and understand Chinese culture. Emphasis is placed on using Chinese in daily communication to talk about health, getting around town, spending time with friends and traveling to China. Students study about the various regions of China and compare life in China with their life in South Lyon. Reading and writing uses simplified Chinese characters.

**CHINESE 4**  
Grades 11, 12  
2 Semesters  
Prerequisite: Chinese 3 or approval of instructor  
The forth year Chinese student will continue to improve comprehension, reading, and communications skills. Study will include review, reinforcement, and refinement of Chinese sentence pattern and vocabulary. The student will become more knowledgeable about Chinese culture and life through a brief survey of history. Throughout all activities, emphasis will be given to communication, both oral and written, in the target language.

**GERMAN 1**  
Grades 9, 10, 11, 12  
2 Semesters  
Prerequisite: Motivation, a strong work ethic, an interest in and an acceptance of cultural diversity.  
This course is an introduction to the German language through the development of the four basic language skills: listening, speaking, reading and writing. German culture, history and contemporary life are also examined.

**GERMAN 2**  
Grades 10, 11, 12  
2 Semesters  
Prerequisite: German 1 or approval of instructor  
Fundamentals learned in German 1 are reviewed and developed with the same emphasis on listening, speaking, reading and writing. Students will further examine the culture, history and contemporary life of German speaking people.
GERMAN 3
Grades 11, 12
2 Semesters
Prerequisite: German 2 or approval of instructor
Listening, reading, speaking and writing skills are broadened through review and the introduction of more detailed grammatical structures. Students will also gain a heightened awareness of German culture, contemporary life and literature.

GERMAN 4
Grades 12
2 Semesters
Prerequisite: German 3 or approval of instructor
German 4 is an advanced course that places emphasis on more individual expression in speaking and writing, while fine tuning listening and reading skills. Students will continue to increase their awareness of German history, culture, and contemporary life.

JAPANESE 1
Grades 9, 10, 11, 12
2 Semesters
Prerequisite: An interest in non-Western cultures, motivation, a strong work ethic, and a willingness to try chopsticks.
This course is an introduction to the Japanese language and culture. Students will learn to read and write the two phonetic scripts and develop basic oral communication skills in formal Japanese through dialogues and role playing activities. By examining the history, culture and contemporary life of Japan, you will gain an appreciation of this fascinating Asian nation.

JAPANESE 2
Grades 10, 11, 12
2 Semesters
Prerequisite: Japanese 1 or approval of instructor
Japanese 2 is for students who completed Japanese 1. Students will continue to work on the four major skills of language development: reading, writing, speaking and listening. Students will expand their knowledge of written Japanese to include some kanji. Informal Japanese will be introduced. In addition, culture, customs and history will be explored as part of the curriculum.

JAPANESE 3
Grades 11, 12
2 Semesters
Prerequisite: Japanese 2 or approval of instructor
Japanese 3 is for students who completed Japanese 2. Students will continue to work on reading, writing, speaking and listening skills in both formal and informal speech. Students will improve their knowledge of written Japanese and will continue to learn more kanji.

JAPANESE 4
Grades 12
2 Semesters
Prerequisite: Japanese 3 or approval of instructor
Students in Japanese 4 will gain greater insights into Japanese culture. In reading and writing, students will continue to expand their knowledge of kanji. In oral communication, they will learn to use formal and informal speech patterns. Myths, legends and folktales will be read as literature.
SPANISH 1
Grades 9, 10, 11, 12
2 Semesters
Prerequisite: Motivation, a strong work ethic and interest in and an acceptance of cultural diversity.
This course is an introduction to the Spanish language through the development of the four basic language skills: reading, writing, listening and speaking. Hispanic culture, history and contemporary life are also examined.

SPANISH 2
Grades 9, 10, 11, 12
2 Semesters
Prerequisite: Spanish 1 or approval of instructor
Fundamentals learned in Spanish 1 are reviewed and developed with the same emphasis on listening, speaking, reading and writing. Students will further examine the culture, history and contemporary life of Spanish speaking people.

SPANISH 3
Grades 10, 11, 12
2 Semesters
Prerequisite: Spanish 2 or approval of instructor
Listening, reading, speaking and writing skills are broadened through review and the introduction of more detailed grammatical structures. Students also will gain a heightened awareness of Hispanic culture, contemporary life and literature.

SPANISH 4
Grades 11, 12
2 Semesters
Prerequisite: Spanish 3 or approval of instructor
Spanish 4 is an advanced course that places emphasis on more individual expression in speaking and writing, while fine tuning listening and reading skills. Students will continue to increase their awareness of Hispanic history, culture and contemporary life.

ADVANCED PLACEMENT SPANISH LANGUAGE AND CULTURE
Grade 12
2 Semesters
This course is designed for students who desire to continue the study of Spanish in the fifth year and who may wish to receive college credit by successfully completing the Advanced Placement Test in the Spanish Language. Excellent Spanish speaking and writing skills are necessary. A variety of authentic and college-level materials are utilized throughout the course in order to increase proficiency in the language and prepare students for the AP test. The AP Spanish Language course is intended to cover the equivalent of a third-year college course in advanced Spanish composition and conversation.
CAREER PATHWAYS & THE SLEHS CURRICULUM

The Career Pathways System offers something for everyone. Careers in each category range from those requiring little or no training after high school to those requiring graduate and post-graduate degrees. Each of the six Career Pathways encompasses a wide range of careers that call for similar worker traits, interests, strengths and skills.

Included with each Career Pathway is extensive lists of suggested elective courses that can help students develop the competencies common to careers in that Pathway. While courses that are very skill-specific may be listed under only one Pathway, others appear in several Pathways because they teach competencies and skills that are essential to success in many careers. Whether students are choosing courses to fulfill graduation requirements or to earn general elective credit, each Pathway offers a variety of choices.

High School course choices should prepare students for success at the next level of training or education. They must chart their intended course with several goals in mind: fulfilling requirements for a diploma and choosing courses that will prepare them for their next level of education. Some must consider college admission requirements, as well. Mapping out progress toward graduation is a continuous process of revision as new courses become available and unidentified interests and talents make themselves known. Career Pathways organizes course choices to help students select courses that will satisfy these goals and be relevant to their needs.

Career direction and course selection should be guided by the student’s interests, aptitudes and educational goals. Although students may choose from any of the elective courses in our curriculum, we recommend that careful consideration be given to the elective courses that are listed under the student’s Career Pathway of choice.

Arts & Communication
Business Management
Engineering/Manufacturing
Marketing & Technology
and Industrial Technology
Health Sciences
Human Services
Natural Resources
and Agriscience
**ARTS & COMMUNICATION**

The Arts and/or Communications Pathway encompasses career fields that are related to the humanities and to the performing, visual, literary, and media arts. These may include careers where employees apply their abilities in creative writing, film production, journalism, education, radio and television broadcasting, advertising, and public relations.

### Sample Careers

<table>
<thead>
<tr>
<th>High School Diploma (with Vocational Background or On-the-Job Training)</th>
<th>Community/Technical College (Certificate, Apprenticeship or Associate Degree Program)</th>
<th>College/University (Undergraduate, Graduate or Post-Graduate Programs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Construction Worker</td>
<td>Adult Care</td>
<td>Actor</td>
</tr>
<tr>
<td>Cosmetologist</td>
<td>Commercial Artist</td>
<td>Advertising</td>
</tr>
<tr>
<td>Floral Designer</td>
<td>Daycare Provider</td>
<td>Commercial Artist</td>
</tr>
<tr>
<td>Landscaper</td>
<td>Florist</td>
<td>Computer Graphic Artist</td>
</tr>
<tr>
<td>Musician</td>
<td>Graphics</td>
<td>Journalist</td>
</tr>
<tr>
<td>Sign Painter</td>
<td>Landscape Architect</td>
<td>Language Interpreter</td>
</tr>
<tr>
<td>Typesetter</td>
<td>Photographer</td>
<td>Meteorologist</td>
</tr>
<tr>
<td>Set Designer</td>
<td>TV Production</td>
<td>Teacher</td>
</tr>
<tr>
<td>Window Designer</td>
<td>Web Design</td>
<td>Librarian / Media Specialist</td>
</tr>
<tr>
<td>Cruise Ship Entertainer</td>
<td>Makeup Artist</td>
<td>Web Design</td>
</tr>
<tr>
<td>Barber</td>
<td>Script Writer</td>
<td>Writer</td>
</tr>
<tr>
<td>Special Events Planner</td>
<td>Ghost Writer</td>
<td>Medical Illustrator</td>
</tr>
<tr>
<td>Nightclub Entertainer</td>
<td></td>
<td>Photojournalist</td>
</tr>
<tr>
<td>Ornamental Metal Worker</td>
<td></td>
<td>Art Therapist</td>
</tr>
</tbody>
</table>

...
The Business, Management, Marketing & Technology Pathway includes career fields related to the business environment and may include sales, marketing, hospitality and tourism, computer information systems, finance accounting, office administration, personnel, economics, management and computer information systems in public, corporate or entrepreneurial business settings.

### Sample Careers

<table>
<thead>
<tr>
<th>High School Diploma (with Vocational Background or On-the-Job Training)</th>
<th>Community/Technical College (Certificate, Apprenticeship or Associate Degree Program)</th>
<th>College/University (Undergraduate, Graduate or Post-Graduate Programs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bank Teller</td>
<td>Accounting Clerk</td>
<td>Accountant</td>
</tr>
<tr>
<td>Bookkeeper</td>
<td>Administrative Assistant</td>
<td>Advertising Executive</td>
</tr>
<tr>
<td>Computer Data Entry</td>
<td>Executive Secretary</td>
<td>Budget Analyst</td>
</tr>
<tr>
<td>Computer Repair</td>
<td>Building Manager</td>
<td>Computer Programmer / Analyst</td>
</tr>
<tr>
<td>Food Service</td>
<td>Computer Network / Repair</td>
<td>Computer Systems</td>
</tr>
<tr>
<td>Office Support Staff</td>
<td>Court Reporter</td>
<td>Economist</td>
</tr>
<tr>
<td>Retail Sales</td>
<td>Estimator</td>
<td>Corporate Sales</td>
</tr>
<tr>
<td>Travel Agent</td>
<td>Hotel Management</td>
<td>Loan Officer</td>
</tr>
<tr>
<td>Receptionist</td>
<td>Web Design</td>
<td>Personnel Officer</td>
</tr>
<tr>
<td>Payroll Clerk</td>
<td>Entrepreneur</td>
<td>Marketing Executive</td>
</tr>
<tr>
<td>Postal Clerk</td>
<td>Business Sales</td>
<td>Web Design</td>
</tr>
<tr>
<td>Printing Press Operator</td>
<td>Fashion Merchandising</td>
<td>Strategic / Corporate Planning</td>
</tr>
<tr>
<td>Grocery Clerk</td>
<td>Cosmetology Management</td>
<td>Human Resources Administration</td>
</tr>
<tr>
<td>Claims Clerk</td>
<td>Paralegal / Legal Assistant</td>
<td>Insurance Agent</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Attorney</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Auditor</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Financial Planner / Advisor</td>
</tr>
</tbody>
</table>
ENGINEERING, MANUFACTURING & INDUSTRIAL TECHNOLOGY

The Engineering, Manufacturing & Industrial Technology Pathway incorporates career fields related to the technologies necessary to design, develop, install or maintain physical systems. They may include engineering and related technologies, architecture, drafting, mechanics and repair, manufacturing technology, precision production and construction.

### Sample Careers

<table>
<thead>
<tr>
<th>High School Diploma (with Vocational Background or On-the-Job Training)</th>
<th>Community/Technical College (Certificate, Apprenticeship or Associate Degree Program)</th>
<th>College/University (Undergraduate, Graduate or Post-Graduate Programs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Auto Body Technician</td>
<td>Auto Repair Technician</td>
<td>Architect</td>
</tr>
<tr>
<td>Carpenter</td>
<td>Building Construction Technician</td>
<td>Automotive Engineer</td>
</tr>
<tr>
<td>Climate Control Mechanic</td>
<td>Chemical Technician</td>
<td>Chemical Engineer</td>
</tr>
<tr>
<td>Machine Tool Setter</td>
<td>Computer-Aided Designer</td>
<td>Computer Analyst</td>
</tr>
<tr>
<td>Custodian</td>
<td>Heating &amp; Air Conditioning</td>
<td>Computer Technician</td>
</tr>
<tr>
<td>Roofer</td>
<td>Industrial Electronics Technician</td>
<td>Computer Programmer</td>
</tr>
<tr>
<td>Security System Installer</td>
<td>Pipe Fitting</td>
<td>Mechanical Engineer</td>
</tr>
<tr>
<td>Welder</td>
<td>Surveyor Technician</td>
<td>Surveyor</td>
</tr>
<tr>
<td>Diesel Equipment Operator</td>
<td>Welding Equipment Maintenance</td>
<td>Materials Engineer</td>
</tr>
<tr>
<td>Brick Layer</td>
<td>Hydraulic Assembly</td>
<td>Robotics Technology / Engineering</td>
</tr>
<tr>
<td>Machinist</td>
<td>Electronics Technician</td>
<td>Biomedical Engineer</td>
</tr>
<tr>
<td>Broadcast Communications Technician</td>
<td>Aviation Maintenance Technician</td>
<td>Industrial Design</td>
</tr>
<tr>
<td></td>
<td>Plumber</td>
<td>Operations &amp; Systems Research</td>
</tr>
<tr>
<td></td>
<td>Electrician</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Facilities Management</td>
<td></td>
</tr>
</tbody>
</table>
HEALTH SCIENCES

The Health Sciences Pathway encompasses careers that are concerned with the promotion of health, as well as the treatment of injuries, condition and disease. These may include medicine, dentistry, nursing, therapy, rehabilitation, nutrition, fitness and hygiene.

### Sample Careers

<table>
<thead>
<tr>
<th>High School Diploma (with Vocational Background or On-the-Job Training)</th>
<th>Community/Technical College (Certificate, Apprenticeship or Associate Degree Program)</th>
<th>College/University (Undergraduate, Graduate or Post-Graduate Programs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Animal Caretaker</td>
<td>Administrative Clerk</td>
<td>Chemist</td>
</tr>
<tr>
<td>Clinical Assistant</td>
<td>Emergency Medical Technician</td>
<td>Chiropractor</td>
</tr>
<tr>
<td>Dental Assistant</td>
<td>Industrial Hygiene</td>
<td>Dentist / Physician</td>
</tr>
<tr>
<td>Dietary Aide</td>
<td>Medial Assistant</td>
<td>Registered Nurse</td>
</tr>
<tr>
<td>Home Health Aide</td>
<td>Pharmacy Technician</td>
<td>Nutritionist / Dietician</td>
</tr>
<tr>
<td>Medical Office</td>
<td>Physical Therapy Assistant</td>
<td>Pharmacist</td>
</tr>
<tr>
<td>Nurse’s Aide</td>
<td>Massage Therapist</td>
<td>Physical Therapist</td>
</tr>
<tr>
<td>Physical Therapy Aide</td>
<td>Surgical Technician</td>
<td>Psychologist</td>
</tr>
<tr>
<td></td>
<td>Veterinary Assistant</td>
<td>Respiratory Therapist</td>
</tr>
<tr>
<td></td>
<td>Radiographic Technician</td>
<td>Teacher</td>
</tr>
<tr>
<td></td>
<td>Dental Hygienist</td>
<td>Optometry</td>
</tr>
<tr>
<td></td>
<td>Licensed Practical Nurse</td>
<td>Speech &amp; Language Pathology</td>
</tr>
<tr>
<td></td>
<td>Medical Transcriptionist</td>
<td>Health Care Administration</td>
</tr>
<tr>
<td></td>
<td>Optometry Technician</td>
<td>Veterinarian</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Nurse Practitioner</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Nuclear Medicine Technologist</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Art Therapist</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Occupational Therapist</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Mortician</td>
</tr>
</tbody>
</table>
**HUMAN SERVICES**

The Human Services Pathway encompasses career fields related to the economic, political and social systems. This Pathway may include education, law and legal studies, law enforcement, child and family services, religion, personal services and social services.

### Sample Careers

<table>
<thead>
<tr>
<th>High School Diploma (with Vocational Background or On-the-Job Training)</th>
<th>Community/Technical College (Certificate, Apprenticeship or Associate Degree Program)</th>
<th>College/University (Undergraduate, Graduate or Post-Graduate Programs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Beauty Consultant</td>
<td>Cosmetologist Management</td>
<td>Admin. Information Specialist</td>
</tr>
<tr>
<td>Child Care</td>
<td>Crime Laboratory Technician</td>
<td>Clergy</td>
</tr>
<tr>
<td>Civil Services</td>
<td>Food Service Management</td>
<td>Criminal Justice</td>
</tr>
<tr>
<td>Corrections Officer</td>
<td>Law Enforcement</td>
<td>Lawyer</td>
</tr>
<tr>
<td>Fire Fighting</td>
<td>Legal Assistant</td>
<td>Psychology / Sociology</td>
</tr>
<tr>
<td>Flight Attendant</td>
<td>Security Management</td>
<td>Public Relations</td>
</tr>
<tr>
<td>Food Service</td>
<td>Corrections Officer</td>
<td>Social Work</td>
</tr>
<tr>
<td>Mental Health Aide</td>
<td>Court Reporting</td>
<td>Teacher / Counselor</td>
</tr>
<tr>
<td>Recreational / Support Services</td>
<td>Legal Transcriptionist</td>
<td>Historian</td>
</tr>
<tr>
<td>Usher</td>
<td>Police Evidence Technician</td>
<td>Political Scientist</td>
</tr>
<tr>
<td>Lifeguard</td>
<td></td>
<td>Archivist</td>
</tr>
<tr>
<td>Health Club Attendant</td>
<td></td>
<td>Sociologist</td>
</tr>
<tr>
<td>Home Tutor</td>
<td></td>
<td>Urban Planner</td>
</tr>
<tr>
<td>Home Health Aide</td>
<td></td>
<td>Funeral Director</td>
</tr>
<tr>
<td>Personal Assistant</td>
<td></td>
<td>Vocational Counselor</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Judge</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Librarian / Media Specialist</td>
</tr>
</tbody>
</table>
NATURAL RESOURCES & AGRISCIENCE

The Natural Resources and Agriscience Pathway includes career fields that are related to the environment and natural resources. These may include agriculture, earth science, environmental sciences, fisheries management, forestry, horticulture, and wildlife management.

<table>
<thead>
<tr>
<th>High School Diploma (with Vocational Background or On-the-Job Training)</th>
<th>Community/Technical College (Certificate, Apprenticeship or Associate Degree Program)</th>
<th>College/University (Undergraduate, Graduate or Post-Graduate Programs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Animal Caretaker</td>
<td>Farm Manager</td>
<td>Agricultural Engineer</td>
</tr>
<tr>
<td>Farm Worker</td>
<td>Forestry Technician</td>
<td>Agriculture / Extension Agent</td>
</tr>
<tr>
<td>Florist</td>
<td>Golf Course Management</td>
<td>Conservation Officer</td>
</tr>
<tr>
<td>Greenhouse / Nursery Assistant</td>
<td>Horticulturist</td>
<td>Oceanographer</td>
</tr>
<tr>
<td>Landscaping Assistant</td>
<td>Landscape Design</td>
<td>Landscape Architect</td>
</tr>
<tr>
<td>Parks and Recreation</td>
<td>Retail Florist Sales</td>
<td>Wildlife Management</td>
</tr>
<tr>
<td>Pest Controller</td>
<td>Nursery Worker</td>
<td>Botanist</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Marine Biologist</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Chemist</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Physicist</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Forester</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Biologist</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Civil Engineer</td>
</tr>
</tbody>
</table>
Oakland Schools Career Focused Education

Vision
Every student graduates, progressing to quality post-secondary learning and employment!

Mission
A learning system that provides:
• Informed career preparation decisions
• Skills and knowledge (academic, technical, workplace)
• Preparation to compete in the global marketplace

Quality Policy
The career focused Education department within the Oakland Schools Intermediate School District is responsible for the quality management and improvement system of the four Oakland Schools Technical Campuses. Oakland Schools and all of its departments are committed to a high performance quality operating system based on quality practices and tools to ensure high-level learner achievement and stakeholder satisfaction through customer focus, process measurement and management; continuous improvement and system excellence.

The Oakland Schools Technical Campus Southwest is accredited by the North Central Association.

Overview
Oakland Schools Technical Campus is an extension of your high school. By attending your high school half of the day and the technical campus the other half of the day, you are experiencing a full academic day. Our educational and training opportunities are structured with offerings we call clusters. These clusters (there are nine of them) are developed around broad occupational areas and contain many different, but related, career training options for students. A team of specialized instructors that possess State of Michigan Vocational Authorization staffs these clusters. This ensures that the staff has both the necessary technical expertise and the knowledge of best instructional methodology practices. These instructional teams are either supported by, or include academic staff. Additionally, the clusters are designed to facilitate learning, not just deliver a sequence of instruction. This allows for the student to better manage their instructional plan, work cooperatively with other students, and progress at their own pace. Programs allow us to provide the highest level of curriculum, meet the needs of a diverse population of students, and maintain the highest level of quality possible. Clusters are designed to provide students with instruction for up to two years or more.

Student Transportation
Students may choose the bus services provided by their sending school district or provide their own transportation. Students who elect to drive or ride with another assume all responsibilities connected with transportation.

Credit
Oakland Schools Technical Campuses will recommend high school credit for students based on the local district requirement (generally 1-1/2 credit per semester) upon successful completion of the programs requirements. Articulated and direct credits for college courses may be available based on agreements with many post secondary institutions. Credit awards for students will be based on student achievement and the agreement with the particular college or university.
Overview (cont.) School-to-Career Opportunities

Employer training opportunities (paid and unpaid) are available through the technical campuses to students who meet qualification requirements, including: interest, technical knowledge and skills, attendance, and behavior.

**Paid Training Opportunities**

**Instructional and Exploration Activities**
- Field experience
- Internship
- School-to-registered apprenticeships
- Cooperative education (provided by sending high school)

**Unpaid Training Opportunities**
- Coaching
- Mentoring
- Externship
- Job Shadowing

Oakland Schools Technical Campus opportunities are designed to provide the student the experience of preparing for a career, however, no guarantee of employment is promised at the time of completion.

**Academic Offerings**

To provide for students that need to meet new State academic credit requirements for graduation, the opportunity to receive both technical (elective) and academic credit as part of their program at the SW Campus is offered through the following course offerings, if recommended by the home school. In some cases the instruction is embedded in the curriculum of the technical program and may include computer based instruction, text materials and media, instructional activities by the technical staff, and support in the cluster by highly qualified academic instructors. In other situations student may leave the cluster at designated times to attend a class held by the highly qualified academic instructor. In most cases the student is enrolled separately in the course and receives a separate grade.

The following academic credit options are offered at OSTC (Students may choose only one of the following):

**Math (one credit each)**

1. 4th Math may be counted as a 12th grade Mathematics experience—Three levels of embedded math content TBD based on skill assessment for prescriptive instruction, use of a math application text/workbook aligned to the technical content of the particular cluster, and supplemental instruction by the CTE instructor.
2. Algebra II—highly qualified Math instructor, course delivery to be determined.

**Science (one credit each)**

3. Biochemistry—May be used to recover 1 semester of Biology credit only; delivered by a highly qualified science instructor.

**English Language Arts (one credit)**

4. 12th Grade English (focus on leadership) - Pullout course, meeting state credit and HS Content Standards, delivered by a highly qualified ELA instructor.
Program: Visual Imaging Technology
Career Pathway: Arts and Communication

Description
This program is designed as a first step beyond high school art classes in preparation for professional practice in the graphic design field. The first semester is focused on Design, Digital Imaging and Illustration as a solid foundation for a successful career in the visual arts. The second semester extends graphic design concepts to digital media, print production, designing and creating dynamic brand identification, products, and animations. Students will also create a personal portfolio showcasing your ideas and talents.


Helpful Skills
- Teamwork and collaboration
- Basic computer knowledge and keyboarding skills
- Basic math skills
- Verbal communication skills
- Good eye/hand coordination
- Attention to detail and interest in producing quality work

Certifications
- Five PRINT ED national certifications are available through the Graphic Arts Education Research Foundation (GAERF). They include:
  - Introduction to Graphic Communications
  - Digital File Preparation
  - Offset Press Operations
  - Binding and Finishing
  - Digital File Output
- Adobe Certified Expert
As certifications vary by technical campus, contact the campus you plan to attend for more information

Credit
Upon successful completion of the course, earn high school elective and/or academic credit. College credit also is available through articulation and/or direct college credit. Some colleges that accept technical campus credit include:
- Baker College
- College of Creative Studies
- Delta College
- Ferris State University
- International Academy of Design and Technology
Contact a technical campus counselor for more information on high school and/or college credit.

Student Organizations
Participate in regional, state and national competitions for SkillsUSA. Some campuses also participate in local and national visual arts competitions. Student activities may vary by campus.

Future Career Options
Examples of careers in Visual Imaging may include:
- Illustrator for a publication or animated film
- Videographer/Photographer
- Editor
- Web Designer, Graphic Designer
- Video Game Designer
Program: iTeam – students can choose from the following areas of concentration:

**Information Technology,**

**Computer Networking,**

**Entrepreneurship & Advanced Marketing,**

**Web Development**

**Career Pathway:** Business Management, Marketing and Technology

Prepares you for college opportunities in the business and technology fields as well as for entry-level employment. Attend for one or two years, and experience individual learning projects, group projects, field trips, and hands-on activities. Receive extensive training in oral and written communications, problem-solving and critical thinking, career preparation and development, research, leadership, and teamwork. Four different career programs include:

- **Computer Networking**- write code to power the modern world from game design to mobile applications to intelligent transportation system. Program in advanced languages such as C++, Objective-C, Python, C# and Java
- **Computer Networking**- build, upgrade and repair computers, design install and troubleshoot computer network systems
- **Entrepreneurship & Advanced Marketing**- discover you inner-executive, become a marketing guru, create eye-catching advertisements, develop social media and run special events
- **Web Development**- write code that powers the Web

**Certifications**

These may vary by technical campus, so contact the campus you plan on attending for more information. Examples include but are not limited to:

- Microsoft Computer Application Specialist (MCAS) 2007
- Microsoft Certified Professional (MCP)
- A+ Certification
- Network+
- Certified Novell Administrator
- Certified Internet Webmaster Associate (CIW)
- Certified Internet Webmaster Professional (CIW)
- Dreamweaver & Developer Certification
- Flash MX 2004 Designer Certification
- Michigan Real Estate Salesperson License
- Certificate in Entrepreneurship through a partnership with Macomb Community College
- Internet & Computing Core IC3 Certificate
- Customer Service Certification

**Articulated college credit is available:**

Upon successful completion of the course, you will earn high school elective and/or academic credit. College credit also is available through articulation and/or direct college credit. Some colleges that accept technical campus credit include:

- Baker College
- Ferris State University
- Macomb Community College (12 direct college credits)
- Oakland Community College

Contact a technical campus counselor for more information on high school and/or college credit.
Program: iTeam
Career Pathway: Business Management, Marketing and Technology (continued)

Student Organizations
Participate in regional, state and national competitions for:
  • Business Professionals of America (BPA)
  • SkillsUSA
  • DECA
  • Global Trade Mission

Future Career Options
Examples of careers in Business, Management, Marketing, and Technology may include:
  • Business Manager and/or Owner
  • Customer Service Representative
  • Market Research Analyst
  • Technical Support Representative
  • Software Engineer
  • Helpdesk Staffer
  • Network Administrator
  • Real Estate and/or Mortgage Representative
  • Court Reporter
  • Web Designer
  • Entrepreneur
Program: Engineering and Emerging Technology

Students choose an area of concentration: Machining, Mechatronics or Welding

Career Pathway: Engineering/Manufacturing and Industrial Technology

Is an intensive, two hands-on programs that prepares you with skills to enter post-secondary institutions or move directly into employment opportunities. In Machining learn to use advanced equipment and innovative techniques to invent, design and build high-tech precision parts and tools. Program and operate industrial CNC machines to create products from engineering blueprints and specifications. In Mechatronics, invent, revolutionize, build and creatively solve the needs and demands of a technologically advancing world. Design and build powerful robotic, hydraulic, pneumatic, electrical, electronic and mechanical systems. Learn to creatively solve complex engineering and design challenges using advanced CAD/CAM and CNC technologies. Learn additional core foundational skills, such as:

- Fluid Power (hydraulics/pneumatics)
- Quality Assurance
- Welding/Fabrication

Helpful Skills

- Ability to work independently and as a team member
- Good computer skills
- Good problem-solving skills
- Industrial/technology skills
- Strong background in math and science
- Strong reading and written communication skills
- Technical drafting

Mandatory Equipment/Uniforms

You will be required to dress appropriately and wear safety glasses.

National Certifications

This may vary by technical campus, so contact the campus you plan on attending for more information. Examples include:

- Delmia Certifications
- American Welding Society Certifications
- American Society of Body Engineers CATIA Certifications
- Data Cabling Installers Certification
- Manufacturing Skill Standards Council (MSSC); Production Technician Certification
- Mobile Electronics Certified Professional (MECP)
- International Society of Certified Electronics Technicians (ISCET)

Credit

Upon successful completion of the course, you will earn high school elective and/or academic credit. College credits are also available through articulation agreements and/or direct college credit. Some colleges that accept technical campus credit include:

- Baker College
- Ferris State University
- Kettering University
- Oakland Community College
- Washtenaw Community College

Contact a technical campus counselor for more information regarding high school and/or college credit.
Program: Engineering and Emerging Technology
Career Pathway: Engineering/Manufacturing and Industrial Technology
(continued)

Student Organizations
You can participate in regional, state and national competitions for:
• For Inspiration and Recognition of Science in Technology (FIRST Robotics)
• Oakland County Competitive Robotics Association (OCCRA)
• SkillsUSA
• American Society of Body Engineers (ASBE)
• Society of Automotive Engineers Micro-Electric Car
• Kettering University Micro-Fuel Cell Car

Future Career Options
Examples of careers in Engineering and Emerging Technologies may include:
• Alternative Energies
• Biomedical Electronics Technician
• CAD Designer
• Electrical and/or Mechanical Engineer
• Machinist
• Robotics Technician
• Welding Technician
Program: Transportation Technology

Students choose an area of concentration: Automotive Technology, Collision Repair & Refinishing, and Medium/Heavy Truck & Equipment

Career Pathway: Engineering/Manufacturing and Industrial Technology

Is an intensive technical program that is designed to prepare you with the skills necessary to successfully enter transportation careers. In Automotive Technology, students diagnose, repair and maintain automobiles from basic through advanced automotive systems. Operate professional diagnostic and repair equipment and work alongside master technicians in a rapidly changing industry. In Collision Repair and Refinishing, students learn to repair, restore, and refinish vehicles to showroom condition. They learn to use the same advanced painting, welding, and repair equipment as automotive professionals. Students will create custom modifications using artistic design techniques. In each one- or two-year course, gain core and foundation skills related to gas and diesel engine theory; auto collision repair and refinishing; automotive mechanical technician principles; motorcycle and marine power equipment; engine repair; and computerized diagnostic equipment. Gain competency in safety concepts, equipment operation, and measuring. Technical training competencies are based upon state/national licensing and credentialing requirements. Qualified students may test for state and national certifications.

Learn:
• Automotive Technology
• Collision Repair
• Light/Medium/Heavy Truck and Equipment
• Power Equipment

Helpful Skills
• Ability to follow step-by-step directions
• Attention to detail
• Basic mathematical skills
• Good physical condition
• Problem-solving skills

Equipment/Uniforms needed and may include:
• Coveralls
• Work Boots
• Safety Glasses–Financial assistance is available if needed.

Articulated college credit is available through colleges such as:
• Delta College
• Ferris State University
• Jackson Community College
• Lansing Community College
• Macomb Community College
• Oakland Community College
• University of Northwestern Ohio
• Washtenaw Community College

Certifications Available
• State of Michigan licenses
• ASE certifications (brakes, steering and suspension, engine performance, electrical/electronics)
• ASE Collision certification
• ASE Heavy Equipment certifications
• Marine Technicians Fundamentals (MTF)

See your technical campus counselor for a complete list.
Program: Transportation Technology
Career Pathway: Engineering/Manufacturing and Industrial Technology
(continued)

Student Organizations
• American Boating and Yachting Council
• Michigan Industrial Technology Education Society (MITES)
• SkillsUSA

Future Career Options
Examples of careers in Transportation Technology may include:
• Service Technician
• Automotive Manager/Owner
• Design Engineer
• Original Equipment Manufacturer Support
• Automotive Technology Educator
Program: Health Sciences  
Career Pathway: Health Sciences

Is a one- or two-year program that provides you with a combination of classroom instruction and clinical experiences. Explore health careers through student research, field trips, job shadowing and internships in healthcare environments. Identify careers that match your interests, aptitude and expectations that can lead to a number of career options. Students will have the opportunity to make a difference by providing quality care alongside experts in many healthcare professions. Students will apply health care skills in a variety of clinical environments and develop work ethic and the ability to provide compassionate patient care.

Essential Skills
• Basic math, science and computer knowledge is helpful  
• Detail-oriented  
• Enjoy working with people  
• Respect for diversity  
• Self-directed  
• Strong verbal and communication skills

Possible Career Options
• Dental Assisting  
• Medical Records  
• Nursing  
• Paramedic/EMT  
• Pharmacy Assisting  
• Physical Therapy Aide  
• Certified Nurses Assistant

Articulated college credit is available through colleges such as:
• Baker College  
• Ferris State University  
• Oakland Community College
See a technical campus counselor for a complete list.

Certifications Available
• CNA Assistant  
• CPR with AED Training (Automated External Defibrillator)  
• First Aid Certification

Contact a technical campus counselor for more information.

Student Organizations
• Health Occupations Students of America (HOSA)
Program: Culinary Arts/Hospitality
Career Pathway: Business Management, Marketing and Technology

Provides a broad background of skills and knowledge utilizing state-of-the-art industry-based tools, equipment and technology. Become productive in a modern commercial kitchen with applications in business procedures for today’s professional. Acquire training in cooking methods, food and beverage service, baking, menu design, staffing and scheduling, food preparation and financial management for a commercial food service establishment. Also receive an introduction to the travel/tourism industry. Students will cook alongside professional chefs to create amazing gourmet cuisine in a fast-paced environment. You will be a key part of a culinary team that operates a restaurant, prepares regional/international cuisines and delivers unique dining experiences.

Helpful Skills
• Basic math skills
• Desire and ability to work in a team environment
• Good health and hygiene
• Good interpersonal skills
• Problem-solving

Articulated college credit is available at the following colleges:
• Culinary Institute of America
• Johnson and Wales
• Le Cordon Bleu Schools North America
• Oakland Community College
• Schoolcraft College

Equipment/Uniforms needed and may include:
• Toque blanche (hats)
• Jacket
• Pants

Financial assistance is available if needed.

Certifications
• National Restaurant Association Serv Safe Certification
• National Restaurant Association ProStart Certification
• Techniques in Preventative Service (TIPS)

Student Organizations
• SkillsUSA
• National Restaurant Association Education ProStart State and National competitions
• National Ice Carvers Association (NICA)
• Customer Service Representative Certification

Future Career Options
• Manager/Owner
• Convention Director
• Executive Chef
• Dietitian
• Executive Pastry Chef
Program: Agriscience and Environmental Science
Career Pathway: Natural Resource and Agriscience

Provides you with the skills necessary to enter universities and/or community colleges. Employment opportunities also exist in various agriscience and environmental fields. Agriscience and Environmental Science includes instruction in:
- Plant Systems, including Hydroponics, Tissue Culture, and Aquaculture
- Animal Systems, including Veterinary Sciences
- Environmental and Natural Resource Systems
- Agribusiness and Marketing

Essential Skills
- Ability to work both independently and as part of a team
- Basic math and all sciences
- Basic art and design
- Able to relate to plants, animals and nature

Equipment/Uniforms Needed
- You must dress appropriately for both the class and seasons and prepare to work in a variety of conditions, including outdoors with plants, animals, and water.
- Students with environmental and/or animal allergies may need to consider an alternate program.

Certifications
These may vary by technical campus, so contact the campus you plan on attending for more information. Examples include:
- Michigan Certified Nurseryman
- Michigan Certified Florist
- Vet Assistant Career Diploma
- Pet Groomer Career Certificate
- Certified Pesticide Applicator
- Wildlife and Forestry Career
- Certified Landscape Technician

Credit
Upon successful completion of the course, you will earn high school elective and/or academic credit. College credit is also available through articulation and/or direct college credit. Some colleges that accept technical campus credit include:
- Ferris State University
- Michigan State University
- Oakland Community College

Contact a technical campus counselor for more information on high school and/or college credit.

Student Organizations
You can participate in regional, state and national competitions and activities for FFA, an integral part of the curriculum.

Future Career Options
Examples of careers in Biotechnology and Environmental Science may include:
- Veterinary Technician
- Laboratory Animal Care Technician
- Biotechnology Lab Assistant
- Landscaper
- Floral Designer
- Wildlife Manager and Conservationist
- Forestry
- Pet Groomer
Firefighter I and II Program

The Firefighter Program is a State of Michigan approved Firefighter I and II certification class. Students must attend a minimum of 90% of classroom training, 100% of practical skills training and submit no less than 90% of homework assignments and pass the class with a 70% or higher to be eligible to test for the Michigan Firefighter I & II Certification which is necessary to become either a part-time or full-time firefighter.

The program is run in a para-military fashion, with students wearing required uniforms and daily inspections. In addition, students will be required to participate in physical training (PT) sessions at least twice a week, doing strength and cardiovascular training under the direction of certified fitness trainers. Protective clothing weighs 25 pounds, with the Self-Contained Breathing Apparatus (SCBA) weighing another 25 pounds.

In addition to the 3 period block for normal class meeting times, one additional Saturday per month is required, allowing the students more time to get into scenario-based practical skills training.

While individual skills must be completed, emphasis is placed on teamwork. Students will be broken down into work groups, called platoons, for much of the required coursework.

During the fire academy, students will be encouraged to apply for Fire Cadet positions in the fire department serving their area. This is not required, as student schedules and home situations may not make this available to students. Fire Cadets are part of a structured program, giving cadets exposure to the fire station, familiarity with apparatus and co-workers, and gives them a roadmap on how to proceed in the organization to a full-fledged firefighter position.

Students entering the fire academy should have no previous discipline issues, giving them the best chance to succeed in the program.