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High School Leadership

Mr. Chad Scaling....................................................Principal
Mr. Mitch Rosekrans..............................Asst. Principal
Mr. Jim Brennan.................................Asst. Principal
Dear South Lyon High School Students:

It is with tremendous excitement that I welcome you to South Lyon High School. We offer you many opportunities to personalize your education, preparing you for your future. The state of Michigan has created one of the most robust graduation requirement frameworks in the nation. South Lyon Community Schools’ personnel have worked extensively to provide you with every opportunity to succeed within a state mandated curriculum of significant rigor. The decisions you make now will be critical as you prepare for the future you desire. I can assure you that our staff will help you make these choices and do our absolute best to put you in positions for success. We are committed to innovative programming to foster a teaching and learning community where instruction is student-centered and connected to real world experiences.

Please keep in mind that high school is about much more than earning a diploma. This is the time to learn about your interests, your talents, to explore careers, and to begin to discover what your future will entail. Selecting a challenging course of study is important as you develop and prepare yourself for your future. We are here to help you flourish throughout your high school career.

Our goal is to support all South Lyon students with the opportunity to excel in academics, athletics, fine arts and other co-curricular programs so that you may become contributing members of our school and community.

The challenges that we face in this ever-changing world can best be addressed with a strong educational experience. We look forward to working with each of you and we are eager to meet these challenges with you.

Sincerely,

Chad E. Scaling
Principal
South Lyon High School
South Lyon High School

South Lyon High School is home to almost 1300 students in grades 9 through 12. Originally built in 1990, the building has undergone several expansions and renovations. It covers 325,000 square feet and is designed to serve the entire community. The building features bright classrooms, a library/media center, two gymnasiums, 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

SLHS boasts more than 70 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 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 60 students spend 1/2 of each day at the Oakland Schools’ Technical Center Southwest in nearby Walled Lake in 7 different career pathways.

Accreditation

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

Assessment

SLHS 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

SLHS is structured on a traditional 6-period day, within two semesters per 175 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

South Lyon High School will motivate, educate and support students by providing a variety of learning opportunities designed to prepare them for lifelong challenges.
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: Freshman</th>
<th>Year 3: Junior</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year 2: Sophomore</td>
<td>Year 4: 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**

To reposition themselves to graduate with their class, students whose earned credits do not meet these benchmarks will need extra coursework.

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 High School.

1. **Repeat classes at South Lyon High School.**
   Students have the option to retake courses that they have not passed for free at South Lyon 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 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. The high school 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 principal’s prior approval. No more than two online courses may be taken during the summer. This is a pass/fail option. 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 eligibility; the original grade will remain on the transcript.

4. **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.

**Early Graduation**

Students may graduate early as long as they have met all graduation requirements and have earned a minimum of 23 credits.
TESTING

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.

ARMSIED SERVICES VOCATIONAL APPTITUDE 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, Social Studies, and World Language 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 a 4-point grading system for all courses with the exception of AP coursework which is graded on a 5.0 scale. 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:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>4.0</td>
</tr>
<tr>
<td>A-</td>
<td>3.7</td>
</tr>
<tr>
<td>B+</td>
<td>3.3</td>
</tr>
<tr>
<td>B</td>
<td>3.0</td>
</tr>
<tr>
<td>B-</td>
<td>2.7</td>
</tr>
<tr>
<td>C+</td>
<td>2.3</td>
</tr>
<tr>
<td>C</td>
<td>2.0</td>
</tr>
<tr>
<td>C-</td>
<td>1.7</td>
</tr>
<tr>
<td>D+</td>
<td>1.3</td>
</tr>
<tr>
<td>D</td>
<td>1.0</td>
</tr>
<tr>
<td>D-</td>
<td>0.7</td>
</tr>
<tr>
<td>E</td>
<td>0.0</td>
</tr>
</tbody>
</table>

5.0 Grading Scale for AP Courses

<table>
<thead>
<tr>
<th>Grade</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>5.0</td>
</tr>
<tr>
<td>A-</td>
<td>4.7</td>
</tr>
<tr>
<td>B+</td>
<td>4.3</td>
</tr>
<tr>
<td>B</td>
<td>4.0</td>
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<tr>
<td>B-</td>
<td>3.7</td>
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<td>3.3</td>
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<td>C</td>
<td>3.0</td>
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<tr>
<td>C-</td>
<td>2.7</td>
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<tr>
<td>D+</td>
<td>2.3</td>
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<tr>
<td>D</td>
<td>2.0</td>
</tr>
<tr>
<td>D-</td>
<td>1.7</td>
</tr>
<tr>
<td>E</td>
<td>0.0</td>
</tr>
</tbody>
</table>

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,

Mrs. Lisa Kudwa,  
Assistant Superintendent for CITA Services

Karen Fisher  
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.
# SOUTH LYON COMMUNITY SCHOOLS’ HIGH SCHOOL GRADUATION REQUIREMENTS

<table>
<thead>
<tr>
<th>Total Credits Required</th>
<th>Recommended Graduation Requirements</th>
<th>Additional Options – Must be approved by counselor/administrator</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>23</td>
<td></td>
</tr>
</tbody>
</table>

**English**
- 4 high school credits (1 credit each year), including
  - 1 cr. English 9
  - 1 cr. English 10
  - 1 cr. 11\(^{th}\) Grade Literature course
  - 1 cr. 12\(^{th}\) Grade English elective

**Mathematics**
- 4 high school credits, including
  - 1 cr. Algebra 1 (Grade 7, 8)
  - 1 cr. Geometry (Grade 8, 9, or 10)
  - 1 cr. Algebra 2 (or designated alternate courses according to eligibility guidelines)
  - *STUDENTS MUST EARN 1 CREDIT IN A MATH OR MATH-RELATED COURSE IN 12\(^{TH}\) GRADE
  - 1 credit CTE program Algebra 2 (OSTC pull out or embedded if offered)*

**Science**
- 3 high school credits, including
  - 1 cr. Biology (Grade 9)
  - 1 cr. Chemistry or Analytical Chemistry
  - 1 cr. Geophysical Science or Physics
  - *Students may choose 2 Science courses in 10\(^{th}\) and 11\(^{th}\) Grades.
  - 1 cr. Biology (Grade 9) AND 2 credits from the following:
    - Chemistry or Analytical Chemistry, Geophysical Science or Physics, Anatomy & Physiology
    - Agricultural Science (online), MDE Computer Science Program (OSTC), Formal CTE Program (OSTC)

**Physical Education and Health**
- 1 high school credit
  - 0.5 cr. Foundations of Health and Physical Education
  - 0.5 cr. Healthy Life Habits
  - NONE*

**Social Studies**
- 3 high school credits, including
  - 1 cr. 20\(^{th}\) Century American History (Grade 9)
  - 1 cr. World Studies (Grade 10)
  - 0.5 cr. Economics (Grade 11)
  - 0.5 cr. Government (Grade 11)
  - NONE*

**World Language**
- 2 high school credits are required in the same world language.
  - High School credit will be granted for successful completion of a World Language in 8\(^{th}\) grade.
  - Class of 2018-2021: 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)

**Applied, Visual & Performing Arts**
- 1 high school credit
  - Visual & Performing Arts include Art, Music, Drama, etc. Applied Arts include courses with a creative design component, such as technology design, yearbook, etc.
  - NONE*

**State Examination**
- All students must take the State mandated assessment in their Junior Year as a graduation requirement.

**Elective Credits**
- 5.0 credits

---

*Note: Transfer credits will be calculated in accordance with South Lyon Community Schools’ Board of Education Policy 7630*

*In accordance with SLCS Board of Education Policy 5460, a Personal Curriculum may be an option for some students.*
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:

**Year-Long Courses (1.0 credit)**
- AP English Language & Composition
- AP English Literature & Composition
- British Literature
- Journalism
- Classical Literature & Thought
- Writing for Publication
- World Literature
- 20th Century Perspectives
- Reading & Writing for the College Bound
- OSTC-English 12 (See your Guidance Counselor)

*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:

**Business & Computers**
- Accounting
- Visual Basic 1

**Science**
- Physics
- AP Physics
- Electronics & Control
- Robotics & Automation
- Engineering Projects
- Advanced Technical Drawing & CAD

**Social Studies**
- AP Microeconomics
- AP Macroeconomics
- OSTC – Math related courses in all clusters will meet 12th grade Math requirement (See your Guidance Counselor).

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

**Art Dept**
- Fundamentals of Art
- Ceramics / Advanced
- Drawing / Advanced
- Jewelry Design & Metalsmithing / Adv
- Painting/ Advanced
- Photography/ Advanced

**Business & Computers Dept.**
- Desktop Publishing
- Digital Imaging
- Entrepreneurship
- MS User
- Cybersecurity Essentials
- Introduction to Business
- Visual Basic 1

**Performing Arts**
- Drama

**Music Department**
- All music courses

**Design & Technology**
- Modern Technologies
- Electronics & Control
- Robotics & Automation
- Engineering Projects
- Technical Drawing & CAD
- Advanced Technical Drawing & CAD

**Applied Arts**
- TV Production 1
- TV Production 2
- Yearbook

**Oakland Schools Technical Campus**
- Visual Imaging Technology
- Engineering/Emerging Technologies
- Culinary Arts/Hospitality
- Transportation Technology
- I-Team (Information Technology)
- Health Sciences
- Agriscience
**SPECIAL OPPORTUNITIES**

**DUAL ENROLLMENT**
Grades 9, 10, 11, 12
1 semester

*Prerequisite: Qualifying Scores (PSAT, PLAN, ACT, 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.
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.

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* (<a href="http://www.pcsum.org">www.pcsum.org</a>)</th>
<th>NCAA Division I Freshman Eligibility Standards** (<a href="http://www.eligibilitycenter.org">www.eligibilitycenter.org</a>)</th>
</tr>
</thead>
<tbody>
<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></td>
</tr>
<tr>
<td></td>
<td>- Fine and Performing Arts</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Information Technology</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1 year of additional English, Math or natural/physical Science.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>4 years of additional courses from any area above or from World Language or comparative Religion or Philosophy courses</td>
<td></td>
</tr>
<tr>
<td></td>
<td>NCAA Amateurism Certification Questionnaire</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ACT or SAT scores</td>
<td></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.eligibilitycenter.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

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<th>Grade 9</th>
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| 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
- [ ] Foundations of Health & Phys. Ed. - 1st
- [ ] Healthy Life Habits - 2nd
- [ ] 20th Century American History
- [ ] World Studies
- [ ] Economics
- [ ] Government
- [ ] Applied, Visual, & Performing Arts
- [ ] 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)

*Approved online learning is included in SLCS coursework

Note: SLCS Board Policy 5460 outlines Personal Curriculum and additional graduation options
APPLIED ARTS

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

TELEVISION PRODUCTION 1
Grades 10, 11, 12
1 Semester
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. This is the entry level course for anyone interested in joining the video production crew at WSLH.

TELEVISION PRODUCTION 2
Grades 10, 11, 12
1 Semester
Prerequisite: Expertise on the equipment in Television Production 1 and excellent attendance.
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 11, 12
Application Only
2 semesters
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 courses will count toward the Applied, Visual and Performing Arts Graduation Requirement.**

CERAMICS
Grades 9, 10, 11, 12
1 Semester
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
Students will explore the foundations of drawing in a two-dimensional studio setting. The course will emphasize foundational drawing skills and techniques as well as introduction to various media. The focus will be to use drawing media to strengthen visual communication skills.

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 movement in 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
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.
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.

PAINTING

Grades 9, 10, 11, 12
1 Semester
Students will explore the foundations of painting in a two-dimensional studio setting. The course will emphasize foundational painting skills and techniques as well as introduction to various media. The focus will be to use painting media 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 movement in art history and individual artists in order to develop a sense of direction in their artwork.

PHOTOGRAPHY

Grades 10, 11, 12
1 Semester
This course is an introduction to 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
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.

FUNDAMENTALS OF ART
Grades 9, 10, 11, 12
1 Semester each
Prerequisite: None
This course affords students the opportunity to learn the language of design. Emphasis will be on the use of various media to effectively communicate the elements and principles of design. Both courses will provide foundation skills for students who plan to enroll in other studio art courses.
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.*

*This course does not count toward the Applied, Visual and Performing Art graduation requirement.*

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 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
Grades 9, 10, 11, 12
May be repeated for credit.
1 Semester
Students will choose two of the four Microsoft Office Programs: Word, Excel, PowerPoint, Access to study for the course. They will also be prepared for success on the MOS certification tests. Whether in the job market or in education, students who hold MOS certification gain significant advantages over their non-certified competitors. Good keyboarding skills are important in this course.

CYBERSECURITY ESSENTIALS
Grades 11, 12 or Instructor Permission
1 Semester
Students develop a foundational understanding of cybersecurity and how it relates to information and network security. Introduces students to characteristics of cybercrime, security principles, technologies, and procedures to defend networks. Through interactive, multimedia content, lab activities, and multi-industry case studies, students build technical and professional skills to pursue careers in cybersecurity.

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 Requirement. **

ELECTRONICS & CONTROL
Grades 9, 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 breadboarding, 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 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. 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 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
Grades 11, 12
2 semesters
*This course may be counted as a 12th grade English experience.*
The AP English Language and Composition course aligns to 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. Summer work will be required.

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. In order for a student to enroll, texts and assessments from the instructor must be received with enough time for students to complete both before fall semester begins. 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.

WRITING FOR PUBLICATION
Grades 10, 11, 12
2 semesters
Prerequisite: Journalism strongly encouraged or teacher approval
Writing for Publication is for the self-disciplined, advanced writer who has learned the basics of grammar and composition. This course is designed to deepen writing and research skills across multiple genres and allow for advanced exploration of non-fiction. Students will learn to enhance storytelling using multiple formats and multimedia. Class members have the opportunity to manage and publish their stories in a public forum and develop professional portfolios. Participation in the processes of community outreach are requirements of the course including interviewing, selling advertisements and attending events outside of school. Independent thinkers, good writers and talented artists are encouraged to take this class.

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

AP Language & Composition, if taken during the Junior year, will fulfill the Literature graduation 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 not Algebra 2 in the Workplace. 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)
Grades 11, 12
2 semesters
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. Credit for this course may be obtained with successful completion of the middle school Geometry course.
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. A wide variety of pre-calculus topics are covered including trigonometry, vectors and elementary functions. 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: Successful completion of Pre-Calculus
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. Summer work will be assigned by the course instructor before the end of the preceding school year. The assignment is expected to be completed by the student prior to the start of the school year.

ADVANCED PLACEMENT STATISTICS
Grades 11, 12
2 Semesters
Prerequisite: Algebra 2
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: This course is not NCAA approved for eligibility.
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 Applied, Visual and Performing Arts Graduation Requirement.**

**VOCAL MUSIC**
Choirs are involved in several home concerts, home football games, district and state choral festivals, solo and ensemble festivals, and local events throughout the year. The students travel on a regular basis to choral competitions, festivals and special events. Students receive updated calendars frequently and are required to attend all performances unless otherwise noted. All choir members should attend Summer Choir Camp in order to prepare for the fall season. Information on this event will be available in the second semester. See the Choir Director for more details.

**WOMEN’S CHORUS**
Grades 9, 10, 11, 12
2 Semesters
Prerequisites: None
Students of all ability levels are welcome in this non-auditioned female choir. The concentration of the class is on building vocal technique and skill in singing. Students will study a broad range of music; learn basic sight-reading skills, and introductory music theory and history. Students will participate in all home concerts, festivals and local events.

**MEN’S CHORUS**
Grades 9, 10, 11, 12
2 Semesters
Prerequisite: None
Students of all ability levels are welcome in this non-auditioned male choir. The concentration of the class is on building vocal technique and skill in singing. Students will study a broad range of music; learn basic sight-reading skills, and introductory music theory and history. Students will participate in all home concerts, festivals and local events.

**WOMEN’S CHAMBER CHOIR**
Grades 9, 10, 11, 12
2 semesters
Prerequisite: Audition Required
Chamber Choir is open to female students by audition only. The Chamber Choir will perform medium to advanced levels of choral literature and develop comprehensive musicianship. Students will be expected to prepare their music at a high level and should be extremely dedicated and self-motivated in their music-making. Private lessons are highly recommended for members of this ensemble. Students will participate in all home concerts, festivals and local events. Auditions for this ensemble occur in the spring.

**LYON SINGERS WOMEN**
Grades 10, 11, 12
2 semesters
Prerequisite: Audition Required
Open to female students by audition only, Lyon Singers is the most advanced choral ensemble and is highly competitive. Music performed in this ensemble is of the highest quality and is quite challenging. Students will be expected to prepare their music at a high level and should be extremely dedicated and self-motivated in their music making. Private lessons are highly recommended for members of this ensemble. Students will participate in all home concerts, festivals and local events. Auditions for this ensemble occur in the spring.
INSTRUMENTAL MUSIC
Instrumental music classes allow students to perform four home concerts each year. Students rehearse for and travel to special events outside of the regular school day as part of this co-curricular course. Students are given updated calendars frequently and are required to attend all practices and performances, unless otherwise noted. Participants in marching band must pay the district required Pay to Participate Fee.

PIANO LAB
Grades 9, 10, 11, 12
1 Semester
No prerequisite. 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.

SYMPHONIC BAND
Grades 9, 10, 11, 12
2 Semesters
Prerequisite: Middle School Band or audition
Symphonic Band is open to all students who want to continue their study of instrumental music. While the overall goal is to develop comprehensive musicianship through performance of quality musical literature, the class will focus on building the techniques that are necessary to play a musical instrument well, individually and as a part of a larger performance. Symphonic Band students will participate in four to five concerts throughout the school year.

WIND ENSEMBLE
Grades 9, 10, 11, 12
2 Semesters
Prerequisite: Audition Required
Wind Ensemble is the most advanced instrumental ensemble. It is open by audition only and is very competitive. Music performed in this ensemble is only of the highest quality and is quite challenging. Application of learned musicianship skills is practiced every day. Expectations are very high; good attitude and dedication are necessities. Auditions for this ensemble will be held in the spring and will include all major scales from memory, chromatic scale and sight-reading.

EXTRA-CURRICULAR OPPORTUNITIES IN MUSIC
Extra-curricular opportunities for after school music programs include Jazz Studies, South Lyon Percussion, the “Pride of Lions” Marching Band, Vocal Jazz Choir, Varsity Women’s Choir, Pit Orchestra, the Spring Musical, Pep Band, and Color Guard. Inclusion is by audition only and students must commit to attending all practices and competitions at state and national levels. Students interested in extra-curricular choral ensembles must be enrolled in a curricular choral ensemble to be eligible for audition. See the band or choir instructor for more information.
PERFORMING ARTS

** All Performing Arts courses will count toward the Applied, Visual 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.
PHYSICAL EDUCATION

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

FITNESS AND TEAM SPORTS
Grades 10, 11, 12
May be repeated for credit.
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 instruction in CPR and AED use.

PERSONAL CONDITIONING
Grades 10, 11, 12
May be repeated for credit.
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.
If a student is uncertain of course choices (including AP courses) they should discuss their options with their current teachers.

AGRICULTURAL SCIENCE – NO COURSES CURRENTLY AVAILABLE
Grades 10, 11, 12
1 semester
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.
A five chapter summer assignment is required. During the school year early arrival (for 1st hour class) or late departure (for 6th hour class) is required one time per week.

ANALYTICAL CHEMISTRY
Grades 10, 11, 12
2 Semesters
Meets the Chemistry graduation requirement
Prerequisites: Biology and Algebra 2 (can 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 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 minutes 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, Pre-Calculus (can 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 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.

GEOLOGY
Grades 11, 12
1 Semester
Geology is designed for students who have an interest in studying the composition, structure and features of Planet Earth. Such topics as rocks and minerals, rivers, glaciers, earthquakes, volcanoes, plate tectonics, national parks, and mapping are discussed in great detail. There are many lab activities and opportunities to do independent projects.
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.
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 one semester course required for all juniors 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: 2 Semesters
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? 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
Required for graduation
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 2018-2019 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/or assignment may be required.

ADVANCED PLACEMENT WORLD HISTORY will be offered during the 2019-2020 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/or assignment may be required.
WORLD LANGUAGE

All World Language courses fulfill the World Language graduation requirement.

*All level one World Language courses successfully completed at the 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 fourth 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 SLHS 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 an extensive list 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**

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

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<td>(with Vocational Background or On-the-Job Training)</td>
<td>(Certificate, Apprenticeship or Associate Degree Program)</td>
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- Actor
- Artist
- Choreographer
- Craftperson
- Dancer
- Floral Designer
- Illustrator
- Musician
- Ornamental Metal Worker
- Set Designer
- Sign Painter
- Visual Merchandiser
- Advertising Copywriter
- Florist
- Graphic Designer
- Interior Decorator
- Jeweler
- Landscape Architect
- Makeup Artist
- Photographer
- Recording Engineer
- Script Writer
- TV Production
- Web Design
- Actor
- Advertising
- Art Teacher
- Art Therapist
- Book Publisher
- Commercial Artist
- Computer Graphic Artist
- Journalist
- Language Interpreter
- Literary Agent
- Medical Illustrator
- Photojournalist
- TV News Anchor
- Web Design
- Writer

### Electives Supporting this Career Pathway

- TV 1/2
- Yearbook
- Any Art Course
- Entrepreneurship
- Introduction to Business
- Desktop Publishing
- Digital Imaging and Multimedia
- Writing for Publication
- Journalism
- Any Music Course
- Drama
- Psychology
- Technical Drawing/CAD

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BUSINESS, MANAGEMENT, MARKETING & TECHNOLOGY

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</th>
<th>Community/Technical College</th>
<th>College/University</th>
</tr>
</thead>
<tbody>
<tr>
<td>(with Vocational Background or On-the-Job Training)</td>
<td>(Certificate, Apprenticeship or Associate Degree Program)</td>
<td>(Undergraduate, Graduate or Post-Graduate Programs)</td>
</tr>
<tr>
<td>Administrative Assistant</td>
<td>Accounting Clerk</td>
<td>Accountant</td>
</tr>
<tr>
<td>Bank Teller</td>
<td>Administrative Assistant</td>
<td>Advertising Executive</td>
</tr>
<tr>
<td>Bookkeeper</td>
<td>Association Manager</td>
<td>Attorney</td>
</tr>
<tr>
<td>Computer Data Entry</td>
<td>Business Sales</td>
<td>Auditor</td>
</tr>
<tr>
<td>Computer Support</td>
<td>Computer Network / Repair</td>
<td>Budget Analyst</td>
</tr>
<tr>
<td>Customer Service Representative</td>
<td>Cosmetology Management</td>
<td>Computer Programmer / Analyst</td>
</tr>
<tr>
<td>Food Service</td>
<td>Court Reporter</td>
<td>Computer Systems</td>
</tr>
<tr>
<td>Payroll Clerk</td>
<td>Entrepreneur</td>
<td>Economist</td>
</tr>
<tr>
<td>Postal Clerk</td>
<td>Estimator</td>
<td>Financial Planner / Advisor</td>
</tr>
<tr>
<td>Retail Sales</td>
<td>Fashion Merchandising</td>
<td>Human Resources Administration</td>
</tr>
<tr>
<td>Tour Guide</td>
<td>Hotel Management</td>
<td>Insurance Agent</td>
</tr>
<tr>
<td>Travel Agent</td>
<td>Paralegal / Legal Assistant</td>
<td>Marketing Executive</td>
</tr>
<tr>
<td></td>
<td>Web Design</td>
<td>Personnel Officer</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Strategic / Corporate Planning</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Web Design</td>
</tr>
</tbody>
</table>

Electives Supporting this Career Pathway:

- Yearbook
- Accounting
- Desktop Publishing
- Digital Imaging & Multimedia
- Entrepreneurship
- Introduction to Business
- MS User 1 & 2
- Visual Basic 1
- Psychology
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>Brick Layer</td>
<td>Aviation Maintenance Technician</td>
<td>Automotive Engineer</td>
</tr>
<tr>
<td>Carpenter</td>
<td>Broadcast Communications Technician</td>
<td>Biomedical Engineer</td>
</tr>
<tr>
<td>Climate Control Mechanic</td>
<td>Building Construction Technician</td>
<td>Chemical Engineer</td>
</tr>
<tr>
<td>Custodian</td>
<td>Chemical Technician</td>
<td>Computer Analyst</td>
</tr>
<tr>
<td>Diesel Equipment Operator</td>
<td>Computer-Aided Designer</td>
<td>Computer Programmer</td>
</tr>
<tr>
<td>Machine Tool Setter</td>
<td>Construction Laborer</td>
<td>Construction Manager</td>
</tr>
<tr>
<td>Machinist</td>
<td>Electrician</td>
<td>GIS Specialist</td>
</tr>
<tr>
<td>Roofer</td>
<td>Electronics Technician</td>
<td>Industrial Design</td>
</tr>
<tr>
<td>Security System Installer</td>
<td>Engineering Technician</td>
<td>Logistics Specialist</td>
</tr>
<tr>
<td>Welder</td>
<td>Facilities Management</td>
<td>Mechanical Engineer</td>
</tr>
<tr>
<td></td>
<td>Heating &amp; Air Conditioning</td>
<td>Robotics Technology / Engineering</td>
</tr>
<tr>
<td></td>
<td>Pipefitter</td>
<td>Surveyor</td>
</tr>
<tr>
<td></td>
<td>Plumber</td>
<td></td>
</tr>
</tbody>
</table>

Electives Supporting this Career Pathway:

- Visual Basic 1
- Modern Technologies
- Electronics & Controls
- Engineering Projects
- Robotics & Automation
- Technical Drawing/CAD
- Adv. Technical Drawing/CAD
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>
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</tr>
</thead>
<tbody>
<tr>
<td>Animal Caretaker</td>
<td>Medial Assistant</td>
<td>Chemist</td>
</tr>
<tr>
<td>Clinical Assistant</td>
<td>Pharmacy Technician</td>
<td>Chiropractor</td>
</tr>
<tr>
<td>Dental Assistant</td>
<td>Phlebotomist</td>
<td>Dentist / Physician</td>
</tr>
<tr>
<td>Dietary Aide</td>
<td>Physical Therapy Assistant</td>
<td>Registered Nurse</td>
</tr>
<tr>
<td>Home Health Aide</td>
<td>Massage Therapist</td>
<td>Nutritionist / Dietician</td>
</tr>
<tr>
<td>Medical Office Assistant</td>
<td>Surgical Technician</td>
<td>Pharmacist</td>
</tr>
<tr>
<td>Personal Care Aide</td>
<td>Veterinary Assistant</td>
<td>Physical Therapist</td>
</tr>
<tr>
<td></td>
<td>Radiographic Technician</td>
<td>Psychologist</td>
</tr>
<tr>
<td></td>
<td>Dental Hygienist</td>
<td>Respiratory Therapist</td>
</tr>
<tr>
<td></td>
<td>Medical Transcriptionist</td>
<td>Optometry</td>
</tr>
<tr>
<td></td>
<td>Diagnostic Medical Sonographer</td>
<td>Speech &amp; Language Pathology</td>
</tr>
<tr>
<td></td>
<td>Paramedic</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>Occupational Therapist</td>
</tr>
</tbody>
</table>

Electives Supporting this Career Pathway:
- Anatomy & Physiology
- Psychology
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</th>
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<tbody>
<tr>
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<td>(Certificate, Apprenticeship or Associate Degree Program)</td>
<td>(Undergraduate, Graduate or Post-Graduate Programs)</td>
</tr>
<tr>
<td>Animal Services Worker</td>
<td>Career Coach</td>
<td>Abuse/Crisis Counselor</td>
</tr>
<tr>
<td>Beauty Consultant</td>
<td>Computer Trainer</td>
<td>Clergy</td>
</tr>
<tr>
<td>Child Care</td>
<td>Corrections Officer</td>
<td>Crime Scene Investigator</td>
</tr>
<tr>
<td>Community Worker</td>
<td>Cosmetologist</td>
<td>Criminal Justice</td>
</tr>
<tr>
<td>Corrections Officer</td>
<td>Court Reporting</td>
<td>Historian</td>
</tr>
<tr>
<td>Firefighter</td>
<td>Crime Laboratory Technician</td>
<td>Human Resource Specialist</td>
</tr>
<tr>
<td>Fitness Instructor</td>
<td>Early Childhood Educator</td>
<td>Judge</td>
</tr>
<tr>
<td>Flight Attendant</td>
<td>Law Enforcement</td>
<td>Lawyer</td>
</tr>
<tr>
<td>Food Service</td>
<td>Legal Assistant</td>
<td>Political Scientist</td>
</tr>
<tr>
<td>Health Club Attendant</td>
<td>Legal Transcriptionist</td>
<td>Psychology / Sociology</td>
</tr>
<tr>
<td>Home Tutor</td>
<td>Security Management</td>
<td>Public Relations</td>
</tr>
<tr>
<td>Lifeguard</td>
<td>Translator</td>
<td>Social Work</td>
</tr>
<tr>
<td>Nanny</td>
<td></td>
<td>Teacher / Counselor</td>
</tr>
<tr>
<td>Personal Assistant</td>
<td></td>
<td>Vocational Counselor</td>
</tr>
<tr>
<td>Teacher Assistant</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Electives Supporting this Career Pathway:

- Firefighter Academy
- Psychology
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.

### 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>Biological Technician</td>
<td>Agricultural Engineer</td>
</tr>
<tr>
<td>Farm Worker</td>
<td>Conservation Officer</td>
<td>Astronomer</td>
</tr>
<tr>
<td>Florist</td>
<td>Farm Manager</td>
<td>Biologist</td>
</tr>
<tr>
<td>Greenhouse / Nursery Assistant</td>
<td>Forestry Technician</td>
<td>Botanist</td>
</tr>
<tr>
<td>Horse Trainer</td>
<td>Golf Course Management</td>
<td>Chemist</td>
</tr>
<tr>
<td>Landscaping Assistant</td>
<td>Horticulturist</td>
<td>Conservation Officer</td>
</tr>
<tr>
<td>Pest Controller</td>
<td>Landscape Design</td>
<td>Forensic Scientist</td>
</tr>
<tr>
<td>Wildlife Technician</td>
<td>Nursery Worker</td>
<td>Forester</td>
</tr>
<tr>
<td></td>
<td>Park Ranger</td>
<td>Landscape Architect</td>
</tr>
<tr>
<td></td>
<td>Solar Energy Technician</td>
<td>Marine Biologist</td>
</tr>
<tr>
<td></td>
<td>Veterinarian Technician</td>
<td>Meteorologist</td>
</tr>
</tbody>
</table>

**Electives Supporting this Career Pathway:**

- Technical Drawing/CAD
- Advanced Technical Drawing/CAD
- Environmental Science
- Geology
- Oceanography/Meteorology
**Oakland Schools Career Focused Education**

**Vision**
Every student graduates – progressing to quality post-secondary learning!

**Mission**
A learning system that provides:
- Informed career preparation decisions
- Skills and knowledge (academic, technical, workplace)
- Preparation to compete

**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. Clusters 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 cluster 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 apprenticeship
- Cooperative education (provided by sending high school)

Unpaid Training Opportunities
- Coaching
- Mentorship
- 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) – All clusters
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 Mathematics instructor, course delivery to be determined

Science (1/2 credit recovery) – Biotechnology & Environmental Science or Health Science cluster
2. Biochemistry—May be used to recover 1 semester of Biology credit only; delivered by a highly qualified science instructor.

English Language Arts (one credit) – All clusters
3. 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, Entrepreneurship & Advanced Marketing,**

**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 your 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: Business, Management, Marketing and Technology
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 or Mechatronics

Career Pathway: Engineering/Manufacturing and Industrial Technology

This 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 and area of concentration: Automotive Technology and Collision Repair and Refinishing

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 Nurse’s 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 ServSafe 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 include 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
Grades 11, 12
3 hour block
Must provide own transportation to Howell High School.

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.

Emergency Medical Training (EMT)
Grade 12
3 hour block
Must provide own transportation to Howell High School.
Prerequisites: Firefighter I and II, Anatomy & Physiology

This year-long program takes a hands-on approach to first aid and lifesaving techniques to prepare seniors for basic Emergency Medical Technician certification. Students may earn First Responder and CPR certifications and qualify for the National Registry of Emergency Medical Technician exam required for EMT licensure.