



# **Livonia Public Schools Program of Study**

**College and Career  
Pathways  
2026-27**

# Livonia Public Schools High Schools

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## Churchill High School

Main Office: (734) 744-2650

[Churchill HS Website](#)

**Principal: Kristen Quesada**

[Churchill Principal Email](#)

### Assistant Principals

Jeffrey Burnside

Bruce Rivera

Tera Woodruff

### Athletic Director

Casey Conway

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## Franklin High School

Main Office: (734) 744-2655

[Franklin HS Website](#)

**Principal: Andrew Pesci**

[Franklin Principal Email](#)

### Assistant Principals

Nicole Collins

John DiPonio

Dennis Gerathy

### Athletic Director

Dusty Hall

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## Stevenson High School

Main Office: (734) 744-2600

[Stevenson HS Website](#)

**Principal: Pete Mazzoni**

[Stevenson Principal Email](#)

### Assistant Principals

Christina Abojamra

Paul Kennedy

Pete Kotsogiannis

### Athletic Director

Arnold "Arnie" Muscat

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## Livonia Career Technical Center

Main Office: (734) 744-2816

[LCTC Website](#)

**Principal: Lindsay Gray**

[LCTC Principal Email](#)

Greetings to our LPS Students & Parents:

A high quality, comprehensive high school offers a wide selection of courses, which are designed to challenge all levels of ability and interest. For those students with well-defined career objectives, the Livonia Public School District offers an additional programming sequence of skill courses through the expanded services of the Livonia Career Technical Center. The elective program at each school also affords opportunities to explore new activities and academic disciplines.

It is our hope that the PROGRAMS OF STUDY will help students and parents plan a program which is appropriate to the unique needs of each individual. The decisions that are made concerning the courses a student will pursue are extremely important and, as such, our counselors and teachers are eager and available to help in any way possible. If you have questions or desire assistance, we encourage you to talk with your counselor or teacher.

It is our sincere hope that your PROGRAMS OF STUDY will prove to be beneficial to you now and in the future. As such, we are dedicated to the premise that we shall do everything in our power to provide educational opportunities of the highest quality for every student in our schools. We wish you much success!

Sincerely,



Livonia Public Schools

The 2026-27 Programs of Study booklet has been revised to assist students in planning a schedule of classes for their high school career. This booklet also will be used by counselors, administrators, parents, and teachers as they assist the students in planning their education programs.

We are committed to provide your students with a unified, articulated, and rigorous curriculum for grades 9-12. Considerable thought should be given to the full four-year program you student will pursue. Some courses are considered essential for college enrollment. Others are designed for mastery of job-entry skills. Still other courses are designed for personal growth, enrichment, and satisfaction. Courses should be selected because they meet the requirements of the students' goals.

With the large number of course selections available to students, a great deal of thought and planning must also go into determining a schedule. Students should discuss their course interests with counselors, teachers, and parents. They should ask questions and make sure that their selections meet their needs.

In addition to the rigorous academic component of our school, we also offer an array of athletic and extracurricular opportunities. Students may select from a variety of sports and activities. (Please contact the athletic director and/or student activities director for specific details.)

Finally, Livonia Public Schools provides support services to help students achieve success at school and assist them with their decision-making process. We offer counseling services, career guidance, study skills, social services, attendance support, substance abuse support, a police liaison officer, special education programs, bilingual education, and media services.

Charting a path through high school and beyond is critically important to each student and should be approached with utmost care. Thus, it is important to access this material for future reference. Be aware that because material is provided early in the prior school year, some changes in procedure, policy, or course offerings may occur.

**Notice of Nondiscrimination:**

***Livonia Public Schools prohibits unlawful discrimination on the basis of race, color, religion, sex, national origin, age, height, weight, marital status, handicap or disability in any of its educational programs or activities. The following person has been designated to handle inquiries and grievances regarding discrimination based on race, color, religion, sex, national origin, age, height, weight, and marital status-Director of Human Resources, 15125 Farmington Road, Livonia, MI 48154 at (734) 744-2566 . The following person has been designated to handle inquiries and grievances regarding discrimination based on handicap or disability-Director of Student Services, 15125 Farmington Road, Livonia, MI 48154 at (734) 744-2524.***

## Planning Your High School Program

Planning a four-year high school program is a serious undertaking. Although many of your courses will be determined by the graduation plan you select, you will still have many other choices to make during your years of school. The courses you select will be guided largely by your plans for the future.

***Will you continue your education in college or in a trade or vocational school?***

***Do you want to learn a career skill in order to enter the full-time work force immediately after school?***

***Are you interested in a technical field?***

***Are you thinking of entering a professional field that requires many years of specialized education?***

The answers to these questions are extremely important for making decisions about your course selections for all four years of high school. Your interests and abilities should also guide those answers.

Some students are sure of their future plans while others are not. It is also common for young people to change their minds about career choices. For this reason, it is important for you to plan a challenging program. Then if your career plans should change, it will not be as difficult to move into another program. While it may sometimes seem tempting to schedule a less-demanding combination of courses, choosing courses that meet your needs or interests is the best way to prepare for your future.

Livonia Public Schools provides a wide range of programs that prepare students for post-high school experience: college, business school, vocational-technical school, military service, fine arts participation, full-time employment, and others. The programs offered allow students to choose the program best for him/her whether that program is the traditional college preparatory, tech-prep, or a career preparatory program.

# Planning Your High School Program

This Program of Study is designed to help families as they plan for four years of high school and their student's future beyond.

This document is organized to support thoughtful conversations about your student's interests and goals in their high school experience.

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# The Six Career Zones



## WHAT IS A CAREER ZONES?

“Career development is a lifelong process of managing and navigating toward a personal vision of the future. More than just a college major or a job, career development is holistic and lifelong, constantly changing as a person changes and situations change. Career development influences include interests, abilities, values, personality, background, and circumstances.”

Condition of Career Readiness in the United States

[Learn More About Career Zones](#)

(beginning on page 12 of the attached document)



# LIVONIA PUBLIC SCHOOLS

## District Policies and Procedures

# Graduation Requirements

There is a minimum of 23 units of credit are required for graduation: 18.5 required + 4.5 elective credits = 23 credits.

- Elective credits allow each student to customize his/her program of study.
- Each student shall be registered for six periods of instruction each semester. (carrying a minimum of three units of credit per semester).

**A minimum of 18.5 units of credit must be earned in the following areas:**

**A. Language Arts (Grades 9, 10, 11, and 12).....4.0 units**  
1 unit Language Arts 9  
1 unit Language Arts 10  
1 unit Language Arts 11  
1 unit Language Arts 12

**B. Mathematics..... 4.0 units**  
4 units of mathematics which must include at least Algebra I, Geometry and Algebra II ([or an equivalent](#)) with a math or math-related class in the final year.

**C. Science.....3.0 units**  
1 unit Biology  
1 unit Chemistry **or**  
1 unit Physics (Beginning with the Class of 2025)  
1 unit Science or completion of a CTE Program

**D. Social Studies.....3.5 units**  
1 unit World History  
1 unit U.S. History  
0.5 unit American Government  
0.5 unit Economics  
**(Class of 2028 - 0.5 Personal Finance Credit included)**

**E. Physical Education.....1.0 unit**  
0.5 unit Personal Fitness  
0.5 unit Health

**F. Visual, Performing, and/or Applied Arts (VPAA).....1.0 unit**

**G. World Languages.....2.0 units**  
2 units of the same World Language, or  
1 unit of the same World Language **and** the completion of a Career and Technical Education (CTE) Program, or  
1 unit of the same World Language and 1 unit of VPAA in addition to required VPAA credit

**TOTAL.....18.5 units**

**Online Learning Experience:**  
Students are required to experience twenty (20) hours of online learning. The requirement will be met through online experiences provided in high school core required courses.



# Livonia Public Schools High School Guidelines

- Responsibilities for Program Selection
- Class Standings and Schedule Changes
- Testing-State Required PSAT, SAT, M-STEP, ACT Workkeys, Other Testing-Additional SAT/ACT, AP and ASVAB
- Scheduling Flexibility
  - Testing Out of Courses
  - Independent Study
  - Seventh Hour
- Preparing for College Application and Admission
- School Supports
- Magnet Programs

# High School Guidelines

## Responsibilities for Program Selection

### **Student & Parent**

It is the responsibility of the student and parent, with the guidance and advice of the school faculty and counselors, to review and determine the future plans and aspirations of the student. Once their program is designed, it is the responsibility of the student, with the support of the school, to carry it through to completion. Upon consultation with their teachers and counselor, the student and their parent(s)/guardian(s) may request to change this program as achievement of goals indicate it to be necessary. Since staffing, class size, etc., are determined through pre-enrollment, it may not always be possible to honor requests for a change of program. Students in high school are not guaranteed the same teachers each semester.

### **Teacher**

It is the responsibility of the teacher, whose experience with the student enables them to identify the student's abilities and achievements, to work with the student, the counselor, and the parent(s)/guardian(s). The teacher's opinions, based on classroom experience, will further help the student to make his/ her program realistic and workable.

### **Counselor**

It is the responsibility of the counselor to help the student plan a program which satisfies the graduation requirements of the school and to recommend that the major emphasis on the student's program is one which reflects the student's future plans, interests, and aptitudes. Finally, it is the responsibility of the counselor to review, with each student, the progress they are making toward their educational and vocational goals.

### **Administrator**

An administrator determines final placement in cases of disagreement.

# Responsibilities for Program Selection

## Class Standing

Annually, student credits are evaluated to determine a student's grade level placement. The following is a minimum number of credits a student must have earned to achieve a particular grade level.

<u>Standing</u>	<u>Credits</u>
<b>Sophomore</b>	<b>5.0</b>
<b>Junior</b>	<b>11.0</b>
<b>Senior</b>	<b>17.0</b>

***NOTE: Even if you have achieved sophomore, junior, or senior class status, if you do NOT have sufficient credits, you will NOT graduate on time.)***

Unless otherwise indicated in a program of study, as a requirement for graduation, a high school student must participate in all state or federal academic testing programs in which the student is eligible to participate and which the school district is required to administer. A high school student's failure to meet this requirement will render them ineligible for a high school diploma and will preclude that student's participation in graduation commencement exercises. Any deviation from this requirement must be approved by the Superintendent or their designee.

## **Requests for Schedule Changes**

At the beginning of each semester, students access their schedules the week prior to the start of the fall and winter semesters. Class changes are limited to critical need only. The master schedule and staff allocations are determined based on student selections made in the spring. Class sizes are balanced accordingly and may not allow for additional students. Critical changes will be limited to the following:

1. Conflicts (two classes which meet during the same hour)
2. Incomplete schedules (schedules with less than six hours of study)
3. Failure of a prerequisite class
4. Changes due to summer school work
5. Placement as a volunteer in community service program
6. The level of the course is inappropriate
7. Individual circumstances supported by student/parent rationale, or the recommendation of an IEP or EPT

***NOTE: CHANGES WHICH PERMIT A STUDENT TO ENTER A CREDIT CLASS (for the reasons listed above) MUST BE COMPLETED BEFORE THE END OF THE THIRD WEEK OF THE SEMESTER.***

# High School Guidelines

Participation in State of Michigan testing is a graduation requirement:

## **PSAT 9/10, NMSQT**

*(National Merit Scholarship Qualifying Test)*

Who: All 9th and 10th graders  
When: Mid-October  
Where: At student's high school  
Fee: None

## **SAT, ACT Workkeys, M-STEP in Social Studies and Science**

The State of Michigan has determined that success on the SAT aligns with College and Career Readiness for all students, not just college bound students.

Who: 11th grade students  
When: Spring  
Where: At student's high school  
Fee: None

## **SAT / ACT Tests**

*(Scholastic Achievement Test/American College Test)*

Purpose: College entrance exams  
All Eleventh grade students take the SAT as a part of their graduation requirements, but students can take the SAT multiple times.

Code #: High school code number for identification purposes on ACT/SAT is #232352

When: *Throughout the year*

Register: *Students who wish to take the SAT may do so by registering at [www.collegeboard.org](http://www.collegeboard.org) or <https://myact.org>*

Fee: *Tests must be signed up and paid on the testing site.*

## **AP Exam**

*(Advanced Placement Exams)*

When: Determined by College Board, usually in May  
Where: Your high school during the school day  
Fee: Costs are established by College Board  
Sign up: Pay for test in advance in Guidance Office

## **ASVAB Test**

*(Armed Services Vocational Aptitude Battery)*

Target: 11th/12th graders  
When: During the school day - second semester  
Fee: None

# High School Guidelines

## Testing Out of Courses

In accordance with Michigan law, 380.1278(a)(4)(c), a student will receive credit for a Michigan Merit Curriculum course in which the student earns a qualifying score, as determined by the school district, on one or more assessments developed or selected by the district that measure a student's understanding of the subject area content expectations or guidelines that apply to the credit.

The qualifying score established by the district is eighty percent. Students who successfully test out of a course will have the course listed on the student's transcript with a grade of "S" for satisfactory. The course(s) will be applied toward fulfillment of the graduation requirement, but will not be applied toward the total number of credits needed for graduation and will not be included in the computation of the student's grade point average.

The testing administration schedule is established during the first semester of each school year. Test outs are administered one time per year during the second semester. Detailed information is available on the school and district website.

# High School Guidelines

## Independent Study

Independent Study is primarily for the purpose of providing students the opportunity to have learning experiences which are not part of the regular course offerings. The application for Independent Study is available from a student's counselor.

A student must work with the appropriate teacher to develop a plan for the selected class.

A student must complete an application, which shall be submitted to the assistant principal of scheduling, with the topic to be studied, specific objectives, resources required, and a plan for evaluation of the work.

Such projects require the approval of the supervising teacher, parent, department chairperson, and building administrator.

See the list of course offerings for each department for a more specific description of Independent Study.

## High School 7th Hour Option

The current high school day consists of six class periods. Students have been offered the opportunity to take an additional class during 7<sup>th</sup> hour. The 7<sup>th</sup> hour option is not a precursor to graduating early from Livonia Public Schools; District policy requires that all students have a minimum of eight semesters of course work. Rather, this option is being provided to students who may wish to take advantage of electives which may otherwise not be available to them in the normal sequence of classes.

**Personal Fitness** is typically offered during the first semester to all students.

**Health** is typically offered during the second semester to students in grades 10-12.

These courses will also be offered during the regular school day.

Students who take advantage of this opportunity must be enrolled in seven classes throughout the given semester. Please be aware that the start times for after-school activities will not be altered and transportation will not be provided at the end of the seventh hour.

# High School Guidelines

## Preparing for College Application and Admission

Admission standards vary by universities and programs. To determine specific requirements, parents are urged to contact the high school Guidance Office or the Admissions Office of the college or university of their choice.

Minimum course requirements necessary for college admission vary from college to college depending upon the program and the degree a student may be interested in pursuing. Generally, minimum course requirements for college admission include certain sequences in the five academic areas: Language Arts, Mathematics, Science, Social Studies, and World Languages. Some technical schools require an emphasis in science and mathematics. It is imperative that students interested in a particular school or college discuss this interest with their counselor to determine the exact requirements for admission.

Colleges look for a combination of academic achievement, extracurricular involvement, and personal qualities in high school students. Here's a breakdown:

### Academic Achievement:

- **Strong Grades:** Consistent high grades in challenging courses (AP, Accelerated) demonstrate academic ability and work ethic.
- **Standardized Test Scores:** While many colleges are test-optional, strong scores on the SAT or ACT can still be a valuable asset for those applying to specific programs within a college or university.
- **Upward Trend:** Colleges appreciate seeing improvement over time, even if initial grades weren't perfect.

### Extracurricular Involvement:

- **Depth Over Breadth:** Focusing on a few activities you're passionate about and achieving leadership roles is more impressive than simply listing many shallow involvements.
- **Demonstrating Skills:** Extracurriculars should showcase skills like teamwork, leadership, problem-solving, creativity, and perseverance.
- **Community Service:** Giving back to your community demonstrates a sense of responsibility and empathy.

### Personal Qualities:

- **Passion and Drive:** Colleges want to see students who are motivated and enthusiastic about their interests.
- **Resilience and Growth:** Overcoming challenges and demonstrating a growth mindset are highly valued.

# High School Guidelines

## School Supports

### MASCOT TIME, ENGLISH LEARNING

#### **Mascot Time**

All high school students have access to a dedicated intervention time two times a week during the school day that supports all students. We use academic and behavioral data to provide our secondary students with supports which include developing the whole child, elevating mental health awareness, and raising academic achievement.

#### **English Learning**

We support all students who have language needs through push-in and pull out supports.

In addition, we have a one-year non-continuing course located at Churchill High School designated for students who have recently arrived in the United States and whose native language is not English. Greater provision for learning English will be provided for the students whose language barrier prevents basic communication. Emphasis will be on oral, aural and written communication.

# Special Education

In addition to other courses in high school, the special education courses listed are available to eligible special education students with the approval of the student's counselor, special education teacher and parent.

Instruction in these areas will be directed to the development of skills and knowledge relative to the potential and capability of the student with a disability.

The following lists brief descriptions of courses available to special education students. In selected cases, Independent Study courses may be approved for scheduling within a single high school based on unique program/student needs. All courses successfully completed provide .5 unit of credit toward graduation requirements unless otherwise indicated. Courses in which the developmental curriculum is highly individualized may be repeated for additional credit.

## **1216H/2216H—Student Success Lab (will earn an S or U grade)**

Social and emotional learning refers to a wide range of skills, attitudes, and behaviors that can affect student success in school and life. Students enrolled in this course will learn about self-awareness, self-management, social awareness, relationship skills, responsible decision-making, emotion management, conflict resolution, teamwork, and executive functioning skills.

# High School Guidelines

## CAPA, MSC, GLOBAL EDUCATION

### **CAPA (Creative and Performing Arts Program)**

**CAPA is housed at Churchill High School**

CAPA offers in-depth courses of study in dance, drama, and vocal music. The curriculum is designed to teach classical and contemporary art forms. Students have the opportunity to perform at the highest level of his or her potential. Students from any high school may enter the beginning courses if space is available. CAPA students will meet all academic graduation requirements. They are expected to participate in after-school rehearsals and performances. Students are selected based on recommendations, auditions, and interviews.

### **MSC (Mathematics/Science/Computer Program)**

**MSC is housed at Churchill High School**

MSC is an invitational program for students who have demonstrated high levels of aptitude, achievement, and interest in mathematics, science, and computer operations. This is a four-year, half-day program housed at Churchill High School which prepares students for advanced placement examinations in calculus, computer science, biology, chemistry, and physics. Eighth grade algebra and geometry students are eligible for MSC based upon scores on standardized tests. Other factors considered are statements of interest and teacher recommendations.

[2026-27 Curriculum Overview](#) - [2026-27 MSC Curriculum Guide](#)

### **GLOBAL EDUCATION**

**Global Education is housed at Stevenson High School**

Global Ed is a magnet program housed at Stevenson High School. The interdisciplinary approach used in the School of Global Education promotes better understanding of both the past and the present world and offers guideposts to the future.



# **Livonia Public Schools High School Guidelines**

## **Earning College Credit During High School**

- **AP Courses**
- **Dual Enrollment**
- **Early Middle College**
- **Career Technical Courses**

## Free and Low-Cost Opportunities to Earn College Credit While Still in High School

	<b>Advanced Placement (AP)</b>	<b>Articulated Credit</b>	<b>Dual Enrollment</b>	<b>Early Middle College</b>
<b>Description</b>	<p>AP Classes provide a college-level curriculum in high school. AP courses are nationally designed and are provided in a variety of subject areas.</p> <p><a href="https://apstudents.collegeboard.org/">https://apstudents.collegeboard.org/</a></p>	<p>Articulated credit provides students with the opportunity to earn credits by completing <a href="#">Career Technical Education (CTE) courses</a>.</p>	<p>Dual Enrollment provides an opportunity for students to take college classes at Michigan colleges while in high school. Students simultaneously enroll in high school and college courses.</p>	<p>The <a href="#">Schoolcraft Edge</a> program enables students to earn an associate degree in Criminal Justice or complete the Police Academy while in high school.</p>
<b>How to enroll</b>	<p>Courses are delivered by AP-trained high school teachers at each high school. See LPS's program of study.</p>	<p>Courses are taken at the Livonia Career Technical Center in their junior and senior year of high school.</p>	<p>Students need <a href="#">approval</a> from their High School and College to enroll. Ask your counselor for more information.</p>	<p>Students must apply. Courses are taken online at the Livonia Career Technical Center through 12th grade and continue to Schoolcraft College.</p>
<b>Earning Credit</b>	<p>Course may count for HS and college credit. Credit is awarded by <a href="#">universities</a> for AP scores of 3 or better. Cost is determined by College Board and may change yearly.</p>	<p>Course counts for high school and college credit. Credit is awarded through agreements with post-secondary institutions.</p>	<p>Courses may count for high school credit, college credits or both.</p>	<p>Courses can count for both high school credit and college credit.</p>

# Advanced Placement Courses

AP courses are offered in the disciplines of arts, English, history and social science, math and computer science, and the sciences. You should choose an AP course based on the subjects you're passionate about and the classes you do well in.

The AP courses are listed under each discipline, but here is a list of all AP courses offered in Livonia Public Schools.

## English

- AP English Language and Composition
- AP English Literature and Composition

## History and Social Sciences

- AP Macroeconomics
- AP Microeconomics
- AP Psychology
- AP United States Government and Politics
- AP United States History
- AP Psychology

## Math and Computer Science

- AP Calculus AB
- AP Calculus BC
- AP Computer Science A
- AP Computer Science Principles
- AP Precalculus
- AP Statistics

## Sciences

- AP Biology
- AP Chemistry
- AP Environmental Science
- AP Physics C: Mechanics

## Arts

- AP Two-Dimensional Art and Design

# Dual Enrollment

## Dual Enrollment at Post Secondary Institutions

*Public Act 160 of 1996 created the Postsecondary Enrollment Options Act, commonly referred to as dual enrollment. PA 160 was amended by SB 622 effective July 1, 2012. This law directs school districts to assist students in paying tuition and fees for courses at Michigan public or private colleges or universities, if all of the following conditions are met:*

Students are in grade 9, 10, 11, or 12.

- If the student first dually enrolls in 9th grade, that student may take not more than two dual enrollment courses per year in the student's 9th, 10th, and 11th grade years and not more than four dual enrollment courses in the student's 12th grade year.
- If the student first dually enrolls in 10th grade, the student may take not more than two dual enrollment courses in the 10th grade and not more than 4 dual enrollment courses in the 11th and 12th grade.
- If the student first dually enrolls in grades 11 or 12, the student may not take more than six dual enrollment courses in either 11th or 12th grade. Note: A district is not permitted to pay for more than ten total dual enrollment classes for any one student.

Students must be enrolled in both the school district and postsecondary institution during the local school district's regular academic year and must be enrolled in at least one high school class.

The district must not offer the college courses. An exception to this could occur if the local board of education determines that a scheduling conflict exists that which is beyond the student's control.

The college courses must be academic in nature, normally applies toward satisfaction of a degree requirement at the postsecondary institution, and cannot be a hobby, craft, or recreation course, or in the subject areas of physical education, theology, divinity, or religious education.

School districts are required to pay the lesser of:

- The actual charge for tuition, mandatory course fees, materials fees, and registration fees; or
- The state portion of the students' foundation allowance, adjusted to the proportion of the school year they attend the postsecondary institution.

Note: Students who do not complete a dual enrollment course must repay the district.

**Students who believe they are eligible for dual enrollment, qualify for tuition and fee support, and wish to participate, should contact their school counselor.**

# Early Middle College

An early middle college (EMC) is a Michigan Department of Education approved five-year program of study. EMCs work closely with postsecondary partners to provide students with an opportunity earn a high school diploma and associate degree. Tuition and textbooks are provided at no cost to students.

Through our Livonia Career Technical Program, we offer a Early Middle College program in Criminal Justice, which offers a

- Transfer Agreement to four-year school
- LPS and Schoolcraft have an articulation agreement
- Non Criminal Justice college classes are taught online using Schoolcraft instructors with an LPS Facilitator

Through Livonia Career Technical Program, we offer an Early Middle College program in Educator Preparation, which offers a

- Transfer Agreement to four-year school
- LPS and Schoolcraft have an articulation agreement
- Non Criminal Justice college classes are taught online using Schoolcraft instructors with an LPS Facilitator

Reach out to the Livonia Career Technical Principal, Lindsay Gray if you have any questions.

# Career Technical Education

Livonia Public Schools believes that all students should graduate from high school with a plan for their future. Whether it is continuing their education at a four-year college or university, a two-year community college or technical school, military service, or entry into the work world, all students should have a focus on the “next step” after high school.

Livonia Public Schools provides all students with the opportunities to make informed decisions about their future. The three Livonia high schools and the Career Technical Center provide programs that are designed to provide a pathway to their ultimate career goal.

## Livonia Career Technical Center (LCTC)

Our programs at LCTC provide students with work-based learning and leadership experiences through business partnerships throughout the community. All of our CTE programs offer college credit opportunities through articulation agreements, along with a majority of our programs offering industry-standard credentials that students can obtain. Whether students choose to continue their education or enter the workforce after graduation, we’re committed to helping each student reach their full potential.

### **embedded credit (except the internship programs)**

All LCTC courses earn these additional academic credits:

**(S)** Senior Math

**(WL)** 2nd year World Language credit

**(V)** Visual Performing & Applied Arts

**(H)** Health (Health Science classes only)

*In addition to the embedded credits LCTC also satisfies 3rd year Science graduation requirements.*

# LIVONIA PUBLIC SCHOOLS

## Career Technical Education (CTE) - Applied Arts Courses

**Courses offered at the Livonia Career Technical Center are open to students in the three high schools during their junior and/or senior year. Courses are available in the following areas at the Career Technical Center (LCTC)**

Advanced Medicine  
Advanced Sports Medicine  
Animation and Web Design  
Auto Technology 1  
Auto Technology 2  
Construction Trades 1  
Construction Trades 2  
Computer Repair/Computer Security  
Criminal Justice 1  
Criminal Justice 2  
Digital Multimedia 2  
Educator Preparation  
Engineering Design 1  
Engineering Design 2  
Fashion Merchandising 1  
Fashion Merchandising 2  
Game Design  
Graphic Design 1  
Graphic Design 2  
Hospitality Management 1  
Hospitality Management 2  
Management & Business Administration 1  
Management & Business Administration 2  
Pre-Sports Medicine  
Pre-Medicine

**The following Business and Marketing CTE Courses are also offered at all three high schools:**

Advanced Business Technology Management (9-12)  
Business Technology Management (9-12)  
E-Commerce & Social Media Management (9-12)  
Marketing 1–Intro to Marketing (9-12)  
Marketing 2–Entrepreneurship (9-12)  
Marketing 3–Advanced Retailing (11-12)  
Project Design Management (9-12)  
Sports and Entertainment Marketing (10-12)

# LCTC–Career Technical Education

## Art & Communications

### **0938/2938-Graphic Design 1 (Grades: 11, 12)**

#### **Prerequisites: None**

Graphic Design 1 is your starting point for a career as a professional graphic designer, illustrator, or digital artist. In this full-year course, you'll work on real-world projects using Mac computers and the Adobe Creative Suite, including Photoshop, Illustrator, and InDesign, in our design workshop. Get hands-on experience with production techniques to transform your digital art into physical products, such as T-shirts, vinyl decals, keychains, mugs, and even your own magazine. In Graphic Design 1, you will explore the design world firsthand through field trips and meetings with industry professionals. You'll build a portfolio highlighting in-demand skills like illustration, product design, branding, image editing, and photography while sharpening your skills with professional production equipment. Basic computer skills and a positive attitude are required; we will teach you the rest. Foundational Skills: Digital illustration in Adobe Illustrator, photo editing in Adobe Photoshop, and outputting your own graphics into Vinyl Decals and Embroidery. Certification(s): Adobe Certified Professional-Certiport

### **0939/2939-Advanced Graphic Design (Grade: 12)**

#### **Prerequisite: Graphic Design or instructor permission.**

Graphic Design 2 is the advanced studio experience designed to launch your professional career in graphic design, illustration, or digital art. You will use your design skills to create projects for actual, real-life clients, boosting the credibility of your portfolio for college applications and jobs. Join a design team working both independently and collaboratively on large-scale projects, learning how to manage timelines, communicate with clients, and deliver polished results. Get hands-on experience with industry machinery and production techniques that most designers don't touch until college, including garment embroidery, vinyl graphics, and dye sublimation. Graphic Design 2 is where you turn your passion into a profession. Foundational Skills: Expand on your Adobe Creative Suite experience and build your portfolio using industry-level machines, including Embroidery, Vinyl Graphics, and Dye Sublimation. Certification(s): Adobe Certified Professional-Certiport

# LCTC–Career Technical Education

## Business, Management, Marketing & Technology

### **0920/2920 Fashion Merchandising 1 (Grades: 11, 12)**

This introductory course includes the study of textiles, clothing design, visual merchandising, advertising and marketing, with a stronger emphasis placed on design, marketing basics, and the fashion industry. Real-world applications include a trip to Chicago to visit designer showrooms and postsecondary fashion schools, as well as participation with planning the annual charity fashion show that the class puts together each year. Along with the marketing, design, and merchandising taught in the class, students will also learn about the sewing machine and basic sewing techniques to accompany the design portion of the class. This class is a hands-on, project-based class.

### **0920/2920 Fashion Merchandising 2 (Grades: 12)**

#### **Prerequisites: Successful completion of Fashion Merchandising 1**

This second-year course is a continuation of the study of textiles, clothing design, visual merchandising, advertising and marketing, with a stronger emphasis placed on leadership, marketing and fashion show planning. This class also plans the entire spring charity fashion show. Real-world applications include a trip to Chicago to visit designer showrooms and postsecondary fashion schools, as well as the opportunity to direct the annual charity fashion show that the class puts together each year. Along with the marketing, design, and merchandising taught in the class, students will also learn more complex sewing techniques to accompany the design portion of the class. This class is a hands-on, project-based class.

### **0902/2902 Business Leadership Essentials (Grades: 11, 12)**

Business Management is designed to introduce students to the exciting, fast-paced, and ever-changing world of modern business. Through engaging lessons and hands-on projects, students develop the skills needed to become knowledgeable consumers, well-prepared employees, and effective citizens in today's global economy. Students explore major areas of business, including economics, global competition, entrepreneurship, human resources, marketing, accounting, finance, and information systems. Real-world simulations, team projects, and problem-solving activities help students apply what they learn to authentic business scenarios. Throughout the course, students also have the opportunity to earn industry-standard certifications, including Microsoft Office Specialist (MOS) credentials, giving them a competitive edge for future employment and postsecondary programs. This class provides a strong foundation for students interested in business leadership, management, or entrepreneurship.

### **0902/2902 Business Leadership Essentials 2 (Grade: 12)**

# LCTC–Career Technical Education

## Engineering, Manufacturing & Industrial Technology

### **0936/2936 Automotive Technology 1 (Grades: 11, 12)**

This year-long course provides a comprehensive introduction to automotive service aligned with ASE MLR standards. Auto 1 builds core skills in Brakes, Suspension & Steering, and Basic Electrical Systems, while placing strong emphasis on shop safety, proper tool use, and routine maintenance procedures. Through hands-on, industry-focused training, students develop the foundational knowledge and technical abilities needed for real-world automotive work. Successful participants may qualify for State of Michigan or ASE Entry-Level Mechanic Certification in the covered areas.

### **0937/2937 Automotive Technology 2 (Grade: 12)**

#### **Prerequisite: Successful completion of Automotive Technology 1**

This year-long advanced course builds on the foundational skills developed in Auto 1 and prepares students for higher-level automotive service work. Auto 2 delves deeper into engine performance, transmissions, drivetrains, advanced electrical and electronic systems, and automotive HVAC. Emphasis is placed on diagnostics, precision repairs, and hands-on problem-solving using industry-relevant tools and procedures. Students also have the opportunity to earn State of Michigan or ASE Entry-Level Mechanic Certification in these advanced areas.

### **0946/3946 Construction Trades 1 (Grades: 11, 12)**

This is year-long, two-hour block course in which students are introduced to the many different skills involved in construction. This course will involve classroom and laboratory work as well as practical job site experience on construction projects.

### **0914/2914 Construction Trades 2 (Grad: 12)**

#### **Prerequisite: Successful completion of Construction Trades 1 and instructor permission**

This three-hour block course builds on the foundational skills developed in Construction Trades 1. Students participate in an authentic residential remodeling project every year. Acting as contractors, students will complete various tasks in the construction and remodeling process. Students will receive their 60 hour builders license upon successful completion of the course.

# LCTC–Career Technical Education

## Education EMC

### **0925CTE/ 2925 Educator Preparation**

This course is designed to prepare students for a career in education, spanning from early childhood through 12th grade. The curriculum encompasses a wide range of foundational topics, including instructional strategies, assessment methods, lesson planning, classroom management, and the various stages of child development—cognitive, physical, and social-emotional. Additional areas of focus include program development, working with special populations and diverse learners, building strategic partnerships, health, safety and wellness, ethics and professional growth, cultural competency, and professional practices. Students will engage in work-based learning experiences and participate in clinical placements within schools across the district, gaining hands-on experience with real classroom environments. Those who successfully complete this course may advance to an Advanced course during their senior year, with opportunities to earn college credits or professional credentials.

# LCTC–Career Technical Education

## Engineering, Manufacturing & Industrial Technology–Continued

### **0942/2942–Engineering Design 1 (Grades: 11, 12)**

#### **Prerequisite: None**

Engineering Design 1 is an engaging, hands-on introduction to the world of engineering and technical design. Students will explore drafting fundamentals—including sketching, mechanical board drawing, and 2D/3D AutoCAD—while bringing their ideas to life using 3D printers, laser cutters, and other maker tools. Throughout the course, students discover a wide range of engineering career pathways, such as Mechanical, Industrial, Civil, Architectural, Aeronautical, Product, Transportation, and Biomedical Engineering. Real-world exposure through industry-related field trips enhances learning and helps students connect classroom concepts to modern engineering workplaces. Students will also have the opportunity to earn valuable industry-recognized credentials, including an Industrial Safety Certification and CAD Mechanical Design I Certification, building a strong foundation for advanced engineering coursework and future STEM careers.

### **0944/2944–Engineering Design 2 (Grade: 12)**

#### **Prerequisite: Successful completion of Engineering 1**

Engineering Design 2 builds on the core skills developed in the introductory course and takes students deeper into advanced mechanical engineering concepts. The class focuses heavily on SolidWorks, a leading 3D modeling software used by professional engineers. Students will design, engineer, and fabricate both individual and team-based projects using 3D printers, laser cutting machines, and additional digital fabrication tools. Learners broaden their problem-solving, critical-thinking, and collaborative design skills while developing a strong technical portfolio. Students may also participate in CSTO activities and engineering competitions, gaining experience that mirrors real-world engineering challenges. This course offers opportunities to earn advanced industry certifications, such as the SolidWorks CSWA (Certified SolidWorks Associate) or Precision-CAD Mechanical Design II Certification, giving students a competitive edge for college programs, technical schools, and engineering careers.

## Hospitality & Tourism

### **0928/2928–Hospitality Management 1 (Grades: 11, 12)**

#### **Prerequisite: None**

In this introductory course, students gain practical, hands-on knowledge and skills within a relevant and industry-driven curriculum. This course not only covers the basics of food preparation and food safety, but also crucial food service concepts such as customer relations, cost accounting, controlling food costs, and marketing. Students will participate

# LCTC–Career Technical Education

## Law, Public Safety, Corrections and Security

### **0934/2934–Criminal Justice Technology 1 (Grades: 11, 12)**

#### **Prerequisite: None**

Criminal Justice 1 is a year-long, two-hour instructional program designed for students interested in investigating careers as criminal lawyers, federal agents, police officers, civilian police personnel, firefighters and EMT, corrections officers, or private security. This course will introduce students to various public safety agencies and provide the students with the recommended path to pursue their desired career choice. Students will learn technical and academic standards used in the public safety careers.

### **09342/29342 Criminal Justice Technology 2 (Grade: 12)**

#### **Prerequisite: EMC students, or instructor permission only**

Criminal Justice 2 is designed for students seeking to deepen their understanding of law enforcement and criminal justice principles while developing practical skills for future careers in the field. This comprehensive course combines theoretical knowledge with hands-on training, focusing on essential topics such as CPR, Use of Force, Drone Operations, Patrol Operations, and physical fitness. Students will engage in work-based learning experiences, including internships, to apply their knowledge in real-world settings and gain valuable insights into the criminal justice system. Emphasizing critical thinking, teamwork, and ethical decision-making, the program prepares students for various roles within law enforcement, security, and related fields.

# LCTC–Career Technical Education

## Information Technology

### **0904/2904–Animation and Web Design (Grades: 11, 12)**

#### **Prerequisite: None**

This project-based course introduces students to the creative and technical foundations of digital design and web development. Students learn to plan, design, and produce visually engaging websites and multimedia content. The course emphasizes user experience, layout design, digital graphics, and interactivity. Students develop creativity, problem-solving, and communication skills that prepare them for postsecondary education and careers in web design, digital marketing, and interactive media.

### **0911/2911–Game Design (Grades: 11, 12)**

#### **Prerequisite: None**

In this course, students explore the full game development lifecycle—from concept and design to prototyping and testing. Emphasis is placed on understanding how games can inform, educate, and inspire. Through collaborative, hands-on projects, students develop both creative and technical skills essential to careers in interactive media and digital design.

### **0905/2905–Digital Multimedia (Grade: 12)**

**This is the second-year course for both Animation/Web Design and Game Design**

#### **Prerequisite: Successful completion of Animation/Web Design or Game Design**

This advanced, project-based course builds upon the foundational skills developed in Animation/Web Design or Game Design. Students expand their expertise in digital design, web media, and interactive content creation while strengthening creativity, problem-solving, and technical proficiency. Through hands-on projects, students refine their ability to plan, design, and produce professional-quality digital products. The course emphasizes industry-relevant skills that prepare students for certification, postsecondary study, and careers in digital communication and technology.

### **0907/2907 Computer Repair/Computer Security (Grades: 11, 12)**

#### **Prerequisite: None**

The curriculum covers the fundamentals of PC technology, networking, and security. Students will learn hands-on technical aspects of the microcomputer, including hardware and software system setup, and troubleshooting with the use of tools and hardware components, as well as hardware and software interfacing. Students will install, configure, 33 upgrade, optimize, and perform preventive maintenance with respect to security using appropriate tools, diagnostic procedures, and troubleshooting techniques.

# LCTC–Career Technical Education

## Health Science

### **0930/2930–Pre-Medicine (Grades: 11, 12)**

#### **Prerequisite: None**

This hands-on course will be taught by a Registered Nurse and will focus on anatomy and physiology, disease processes, medical terminology, professionalism, infection control, and safety, vital signs, blood glucose monitoring, and injection training. Available certifications for all students to earn include BLS/CPR, First Aid, and Stop the Bleed. Based on age and graduation restrictions, seniors enrolled in this course will also be offered Certified EKG Technician (CET) training through the National Health Career Association (NHA). Juniors interested in earning a specialty certification are encouraged to take Advanced Medicine at LCTC. Ideal for students drawn to: Nursing, Physician, and Medical Technologist pathways

### **0916/2916–Advanced Medicine (Grade: 12)**

#### **Prerequisite: Completion of Pre-Medicine at LCTC with a recommendation from your LCTC health science instructor.**

Advanced Medicine provides students with an in-depth understanding of advanced anatomy, physiology, and pathophysiology, advanced patient care skills including phlebotomy and EKG monitoring and analysis, and a robust understanding of professional responsibilities of the health care provider. By the end of this course, students will be eligible to sit for the National Health Career Association: Certified Patient Care Technician (NHA:CPCT) examination. Upon successful completion of the exam, students will earn one ACE college credit and hold a national certification as a PCT. The PCT credential allows students to work in any healthcare setting, including hospitals, clinics, offices, and long-term care facilities. Additional curriculum includes the study of maternal and fetal health, pediatric through geriatric human growth and development, mental health, and complementary, and alternative medicine. This course has an overarching focus on safe patient practices, ethical competencies, and employability and technical skills. Hands-on clinicals and teamwork are essential standards of medicine, making attendance imperative.

# LCTC–Career Technical Education

## Health Science–Continued

### **0941/2941–Sports Medicine (Grades: 11, 12)**

#### **Prerequisite: None**

New Course Name: Sports Medicine

#### **New Course Description:**

This hands-on course will be taught by a Certified Athletic Trainer and will focus on anatomy and physiology, disease processes, medical terminology, professionalism, infection control, and safety, vital signs, taping, and wrapping techniques. Certifications earned include BLS/CPR, First Aid and Stop the Bleed. Senior students who achieve a 73% or better each semester will also have the opportunity to obtain the Certified Physical Therapy Aide credential through American Allied Health. Juniors can continue in health sciences at LCTC through their senior year where they can gain the Certified Physical Therapy Aide credential in Advanced Sport Medicine. Ideal for students drawn to: Athletic Training, Physical Therapy, Occupational Therapy, Kinesiology, Orthopedics, Radiology

### **0945AD/2945AD–Advanced Sports Medicine (Grade: 12)**

**Prerequisite: Successful completion of Pre-Sports Medicine (73% or higher every marking period at LCTC with a recommendation from your LCTC health science instructor.)**

This course will dive more deeply into different careers involved in sports medicine, including how to become a Certified Athletic Trainer. Other topics covered in the advanced course are the athlete's circle of care, athletic training facility specifics, emergency preparedness, sports nutrition, advanced anatomy of the skeletal and muscular systems, rehabilitation and modalities, advanced taping and wrapping, kinesiology, common athletic injuries, and hands-on assessment and evaluation of these athletic injuries. At the completion of this course, students who achieve a 73% or better each semester will have the opportunity to gain the Certified Physical Therapy Aide credential through American Allied Health.

# Career Intern Program and Skilled Trades Internship

## **1857/2857–Three Hour Career Internship Program (Grades: 12)**

### **1859/2859–Two Hour Career Internship Program (Grades: 12)**

The Livonia Public Schools Career Internship Program offers students a unique opportunity to gain real-world experience in a professional setting while earning high school credit. This program provides students with hands-on experience in a field of interest and fosters the development of professional skills such as communication, teamwork, and problem-solving and encourages self-reflection and personal growth through regular feedback and evaluations. High school juniors with a grade point average of 3.0 or higher are invited to apply to the program in January.

### **1861/2861–Two Hour Skilled Trades Internship Program (Grade: 12)**

The Livonia Public Schools Career and Skilled Trades Internship Program offers students a unique opportunity to gain real-world experience in a professional setting while earning high school credit. This program provides students with hands-on experience in a field of interest and fosters the development of professional skills such as communication, teamwork, and problem-solving and encourages self-reflection and personal growth through regular feedback and evaluations.



# Livonia Public Schools

## High School Core Courses

**ELA**

**Mathematics**

**Science**

**Social Studies**

- **Course Numbers and Titles**
- **Recommended Grades**
- **Grading Scale**
- **Prerequisites**
- **Course Descriptions**

# High School Courses

On the following pages, courses are listed by department beginning with the core content areas of English Language Arts, Mathematics, Science and Social Studies, followed by elective departments alphabetically.

The information about each course is as follows:

## Course Numbers and Titles

Example: T367—Bioethics

## Recommended Grades

Example: (Grades 11, 12)

## Grading Scale if different than the traditional 4 point scale

Example: (AP Grading scale. Can earn College Credit)

## Prerequisites

Example: Prerequisites: Biology, Chemistry, Algebra 1 and current enrollment in Algebra 2

## Course Descriptions

Example: This course will examine current .....

### Did you know?

Advanced and general courses are on the traditional four-point grading scale, with:

“A” worth 4 points.

“B” are worth 3 points.

“C” are worth 2 points.

“D” are worth 1 point.

AP and accelerated courses are on a Honors-weighted GPA scale, with:

“A” worth 5 points.

“B” are worth 4 points.

“C” are worth 3 points.

“D” are worth 2 points.

AP Course also offer the opportunity for students to receive college credit with a passing score on the AP test.

# ELA-English Language Arts

Livonia Public Schools offers a comprehensive program in english language arts to meet the needs and interests of all students. The program is based upon a conviction that all students need basic skills in reading, writing, speaking, listening, and interpersonal communication to enable them to function successfully in today's complex society. Further, the design of the program assumes that provision needs to be made for students of varying abilities and levels of achievement.

## **Ninth Grade**

ELA 9 **or** Accelerated ELA 9

## **Tenth Grade**

ELA 10 **or** Accelerated ELA 10

## **Eleventh Grade**

ELA 11 **or** AP English Language and Composition

## **Twelfth Grade**

ELA 12 **or** one of the options below:

- AP English Literature and Composition
- Humanities I and II

## **Livonia Public Schools High School ELA Courses**

### **ELECTIVES**

**Creative Writing**  
**Mythology**  
**Science Fiction**  
**Yearbook**  
**Drama**  
**Advanced Drama**  
**Radio and TV Courses**  
**Video Production**  
**Writing Workshop**

**Four Years of ELA Credits Are Required for Graduation**

# Language Arts

In the English Language Arts required courses, students will receive a minimum of 1 hour per semester in a structured online learning activity that utilized technology with Internet-based tools and resources as the delivery method for instruction, research, assessment and/or communication.

**COLLEGE AND CAREER PATHWAY**—For all students who are planning on being employed or attending a college after high school. The State of Michigan requires four years of English Language Arts instruction.

**ACCELERATED PROGRAM** — For those students who have outstanding ability, achievement, and interest in reading and writing.

## **Recommended Selection of Courses:**

### **9<sup>th</sup> GRADE**

Accelerated Language Arts 9 or Language Arts 9

### **10<sup>th</sup> GRADE**

Accelerated Language Arts 10 or Language Arts 10

Electives: Yearbook

### **11<sup>th</sup> GRADE**

AP English Language and Composition or Language Arts 11

Electives: Yearbook

### **12<sup>th</sup> GRADE**

AP English Literature and Composition or Language Arts 12,

Humanities 1 (Semester 1) and Humanities 2 (Semester 2)

Electives: Yearbook

# Language Arts

## College And Career Pathway

### **1101/2101—Language Arts 9**

Through an integrated approach to English Language Arts, students will explore universal themes and essential questions through reading, writing, speaking, and listening. Ninth graders will read and analyze information and literary texts through the lens of the essential questions, participate in collaborative dialogue with peers, gather evidence, and write for a variety of purposes and audiences related to the essential questions.

### **1108/2108—Language Arts 10**

Through an integrated approach to English Language Arts, students will explore universal themes and essential questions through reading, writing, speaking, and listening. Tenth graders will read and analyze information and literary texts through the lens of the essential questions, participate in collaborative dialogue with peers, gather evidence, and write for a variety of purposes and audiences related to the essential questions.

### **1114/2114—Language Arts 11**

Through an integrated approach to English Language Arts, students will explore universal themes and essential questions through reading, writing, speaking, and listening. Eleventh graders will read and analyze information and literary texts through the lens of the essential questions, participate in collaborative dialogue with peers, gather evidence, and write for a variety of purposes and audiences related to the essential questions. The 11th grade curriculum has a strong focus on American Literature and analytical writing.

### **1115/2115—Language Arts 12**

Through an integrated approach to English Language Arts, students will explore universal themes and essential questions through reading, writing, speaking, and listening. Twelfth graders will read and analyze information and literary texts through the lens of the essential questions, participate in collaborative dialogue with peers, gather evidence, and write for a variety of purposes and audiences related to the essential questions.

# Language Arts

## College And Career Pathway

### **1195—Humanities I (Grade: 12) (Offered Semester 1 only)**

Students will explore human nature and leadership qualities through the study of literature, art, music, architecture, philosophy, theater, science, sculpture and dance. Beginning with early human cultures and advancing through the Middle Ages, students will experience the arts through various projects, readings, viewings and interactions. Analytical writing is emphasized, in addition to oral presentations and research. Students may also take Humanities II and together these courses count for ELA 12.

### **2195—Humanities II (Grade: 12) (Offered Semester 2 only)**

Students will explore human nature and leadership qualities through the study of literature, art, music, architecture, philosophy, theater, science, sculpture and dance. Beginning with early human cultures and advancing through the Middle Ages, students will experience the arts through various projects, readings, viewings and interactions. Analytical writing is emphasized, in addition to oral presentations and research. Students may also take Humanities I, but it is not required.

### **1134 & 2134 Writing Center & Workshop (Grade: 12) CHURCHILL HIGH SCHOOL ONLY**

Writing Center and Workshop is a unique English Language arts course for seniors that blends mentorship, practical application, and advanced writing skills. This semester or year-long course is divided into two components:

Writing Center with Peer Tutoring during which students will work directly with underclassmen and peers in a writing center for half of each week.

Independent Writing Workshop during which students will focus on their own writing. This includes a variety of projects such as research papers, creative writing and college preparatory tasks. Students will build a robust writing portfolio, sharpen their research skills, and explore their own writing style through creative pieces.

# Language Arts

## Accelerated Pathway

### **1102/2102—Accelerated Language Arts 9 (Honors Grading Scale)**

**Prerequisites: Recommend a B- or higher in 8th grade ELA and an iReady score in the 80th percentile or higher on the two most recent i Ready Reading assessments.**

This course is based on the same standards as English Language Arts 9. Acceleration is offered through more challenging texts and a faster pace. Outside reading is a requirement of this course. Students must have a semester grade of “B-” or higher to continue in the Accelerated English Language Arts program.

### **1105/2105—Accelerated Language Arts 10 (Honors Grading Scale)**

**Prerequisites: Recommend a B- or higher in 9th grade ELA**

This course is based on the same standards as English Language Arts 10. Acceleration is offered through more challenging texts and a faster pace. Outside reading is required for this course. Students must have a semester grade of “B-” or higher to continue in the Accelerated English Language Arts program.

### **1113/2113—AP English Language and Composition Grade: 11 (AP grading scale; Can earn college credit)**

**Prerequisites: The AP English Language and Composition course aligns to an introductory college-level writing curriculum. Students should be able to read and comprehend college-level texts and write grammatically correct, complete sentences.**

The AP English Language and Composition course focuses on the development and revision of evidence-based analytic and argumentative writing, the rhetorical analysis of nonfiction texts, and the decisions writers make as they compose and revise. Students evaluate, synthesize, and cite research to support their arguments. Additionally, they read and analyze rhetorical elements and their effects in nonfiction texts—including images as forms of text— from a range of disciplines and historical periods. This class prepares the student to take College Board’s A.P. Language and Composition exam. Performance on the exam determines whether college credit will be earned.

# Language Arts

## Accelerated Pathway

**1107/2107—AP English Literature and Composition Grade: 12**  
**(AP grading scale; Can earn college credit)**

**Prerequisites:** The AP English Literature and Composition course aligns to an introductory college-level literature and writing curriculum. Students should be able to read and comprehend college-level texts and write grammatically correct, complete sentences.

The AP English Literature and Composition course focuses on reading, analyzing, and writing about imaginative literature (fiction, poetry, drama) from various periods. Students engage in close reading and critical analysis of imaginative literature to deepen their understanding of the ways writers use language to provide both meaning and pleasure. As they read, students consider a work's structure, style, and themes, as well as its use of figurative language, imagery, and symbolism. Writing assignments include expository, analytical, and argumentative essays that require students to analyze and interpret literary works. This class prepares the student to take College Board's A.P. Literature and Composition exam. Performance on the exam determines whether college credit will be earned.

# Language Arts

## Electives

### **1194/2194 - Yearbook (Grades: 10-12)**

#### **Prerequisites: Permission of Yearbook advisor**

This is a year-long, challenging photo journalism course which requires involvement beyond the regular school day. Students learn journalistic copywriting, magazine style layout, photographic and artistic design, and financial responsibility. The end product of this ambitious involvement is our traditionally excellent high school yearbook.

### **1178/2178/T178 - Drama (Grades: 9-12)**

Drama is designed to introduce students to the theatre and basic acting techniques. This class will assist a student's self confidence in front of groups and strengthen their creative writing skills. The course includes units in pantomime, storytelling, characterization, monologues, scene writing/performing, puppetry, and improvisation. Drama is a class that requires no previous knowledge or experience in theatre and will leave a lasting impression on all students involved.

### **1179/2179/T179 - Advanced Drama (Grades: 9-12)**

#### **Prerequisites: Drama**

This course teaches advanced theatre techniques and is designed for students who have a serious interest in theatre. Students will spend the semester directing and acting in original and established scenes and monologues. Other units include theatre makeup, theatre history, students reviewing and critiquing their own work and the work of others, improvisation, and intense character development.

### **1199/2199—Independent Study—English (Grades 11, 12)**

#### **Prerequisites: Written approval of Language Arts Department chairperson**

Independent Study is designed for students who have a high interest in a particular area which is not covered in the regular curriculum. An in-depth study may be pursued upon acceptance of a well thought out plan for the study to be conducted. This course may be elected only after approval is obtained from the assistant principal, the department chairperson, the teacher to be involved and the student's parents.

### **1116/T116 - Creative Writing (Grades: 10-12)**

Creative Writing offers students a chance to compose original writings in several literary forms such as poetry, short story, drama, and personal narrative. Students will be asked to write daily, share orally, keep a notebook of ideas, and submit entries to contests or our school literary magazine. Attention will be given to clear, effective, and appropriate expression and useful literary devices.

# Language Arts

## Electives

### **1138/2138/T138 - Mythology (Grades: 10-12)**

Mythology provides students an opportunity to read and enjoy stories, myths, fables, and legends that man has told through the ages in an attempt to explain his origins, his relationship to divine powers, and his relationship to his fellow man. Emphasis will be placed upon Greek & Roman mythologies and their influence upon the arts and literature of Western civilization. Supplementary reading and writing assignments are required.

### **2150/T150- Science Fiction (Grades: 11-12)**

Science Fiction is open to students who can read independently and are interested in stories about the strange, the unexplained, or currently impossible. Activities will focus on a variety of print and non-print media.

### **1184/2184/T184 Radio and TV (Grades: 9-12)**

Radio & TV familiarizes the student with production techniques of radio and television programs. Since radio and television are vocal media, they emphasize the importance of vocal control. With the introduction of simple production exercises, students are given tools for evaluating both radio and television programming. In addition to writing, producing, and directing their own programs, students take part in exercises to improve their vocal and technical proficiency.

### **1185/2185/T185 - Advanced Radio and TV (Grades: 9-12)**

Advanced Radio & TV will emphasize production of videos, technical knowledge, editing skills, field production, and individual creativity.

### **1186/2186/T186 - Advanced Radio and TV 2 (Grades: 10-12)**

This course will allow students to further develop their video production and editing skills. Students will also film and edit the video yearbook as well as various school projects and have the opportunity to enter student video competitions.

### **T181—Video Production (One Semester course) (Grade 10—12)**

This class serves as an introduction to the video production process by focusing on student-centered projects. The goal is for students to develop the ability to capture great video images and audio and to be able to edit those two elements together to tell a story. During the course, each student will be taught the basic understanding of operating a video camera; the basic principles of how to effectively capture video and audio; how to edit video and audio; and how to tell a story by combining video and audio.

# Mathematics

Livonia Public Schools offers mathematics pathways of study dependent on the interests, career goals, and achievement of students. To be successful, students should choose the program and courses that match their goals.

## Ninth Grade



Algebra 1  
Geometry  
Accelerated Geometry

## Tenth Grade



Geometry  
Accelerated Geometry  
Algebra 2  
Accelerated Algebra 2

## Eleventh Grade



Algebra 2  
Accelerated Algebra 2  
Pre Calculus  
Accelerated Pre Calculus

## Twelfth Grade



Pre Calculus  
Accelerated Pre Calculus  
Financial Lit  
AP Calculus  
AP Statistics  
Math Related Course or CTE Course

# Livonia Public Schools High School Mathematics Courses

## ELECTIVES

Students must take a fourth year math or a math-related course in their final year of high school.

## CTE COURSES

CTE Courses can be exchanged for the fourth year of math credit

**Four Years of Mathematics Credits Are Required for Graduation.**  
Algebra 1, Geometry and Algebra 2 are required

## Math-Related Courses

AP Chemistry  
AP Physics  
Auto Technology (SHS only)  
Business Technology Management (.5 credit)  
Advanced Business Technology Management (.5 credit)  
Computer Science Principles (.5credit)  
Engineering Essentials (.5 credit)  
Managing Your Money (.5 credit)  
Marketing 1 (.5 credit)  
Marketing 2 (.5 credit)  
Marketing 3 (1.0 credit)  
Project Design Management (.5 credit)  
Small Business Accounting (.5 credit) (SHS Only)  
Social Media Management (.5 credit)  
Sports and Entertainment (1.0 credit)

All Livonia Career Technical Center programs and the Hospitality Management program (held at Franklin High School) meet the high school graduation requirement for Senior Math Related Courses.

Students must be in their fourth or senior year to meet this requirement.

# Mathematics

In the Mathematics required courses, students will receive a minimum of one-hour per semester in a structured online learning activity that utilized technology with Internet-based tools and resources as the delivery method for instruction, research, assessment, and/or communication.

**COLLEGE AND CAREER PATHWAY**—For all students who are planning on being employed or attending a college after high school. The State of Michigan requires Algebra I, Geometry, Algebra II, and a fourth year mathematics course. The State requirement of all students taking the SAT aligns with students completing Algebra 2 Junior year. See page 38 for fourth-year course choices.

**ACCELERATED PROGRAM** — For those students who have outstanding ability, achievement, and interest in mathematics, and who have been highly successful in previous mathematics classes. Students must be invited into the Accelerated Mathematics Pathway. Interested students may request such an invitation if not initially invited.

## **MIDDLE SCHOOL STUDENTS CAN EARN HIGH SCHOOL CREDIT FOR ALGEBRA 1:**

The Michigan Department of Education allows districts to grant credit for mathematics courses taken in middle school that are equivalent to Algebra 1 or higher. Any Livonia Public Schools middle school student who takes and successfully completes such courses as identified above will receive high school credit for said courses. These courses will be listed on the high school transcript indicating that credit was earned; however, the courses will not be used in the calculation of the student's high school grade point average.

# Mathematics

## College And Career Pathway

### **1322/2322 - Algebra 1 (Grade 9)**

#### **Prerequisites: None**

This course provides for the study of the real number system and families of functions including linear, exponential, and quadratic. Students will also develop their knowledge of powers, including roots, cubics and quadratics, and polynomial patterns of change. Students will develop an understanding that algebraic thinking is a powerful tool that can be used to model and solve real-world problems.

### **1324/2324 - Geometry (Grades: 9,10)**

#### **Prerequisites: Credit for Algebra 1 or taken concurrently**

The emphasis of this course is on geometric figures, including lines, angles, triangles, quadrilaterals, polygons and circles, and their properties. Relationships between two-and three-dimensional representations, congruence, similarity, transformations, proof, and logic are also studied in this course. Algebraic concepts are applied and expanded throughout the course.

### **1326/2326 - Algebra 2 (Grades: 10, 11, 12)**

#### **Prerequisites: Completion of Algebra 1 and Geometry**

The primary focus of Algebra 2 is the study of relations and functions (quadratics, polynomial, exponential, and logarithmic, rational, and radical) including operations, graphing, solving, and applications. Algebra 2 expands the study of mathematics to include complex numbers and also includes systems of equations and inequalities, sequences and series, and data collection and analysis.

### **1328/2328 - Precalculus (Grades: 10, 11, 12)**

#### **Prerequisites: Algebra 2 and Geometry (preferred grade of at least a C)**

This course provides a further analysis of functions and their applications, including polynomial, rational, exponential, and logarithmic functions. Trigonometric functions, their operations, graphing, solving, and applications, are a primary focus. This course also incorporates matrices for solving equations, vector definition and applications, the study of conics, polar coordinates and equations, parametric equations, and sequences and series.

# Mathematics

## Accelerated Pathway

### **1331/2331 - Accelerated Geometry (Honors Grading Scale)**

**Prerequisites: Algebra I (preferred grade of “C” or better) or teacher recommendation**

This course covers the topics from Geometry but at a higher level and in more depth. An opportunity is provided to work with abstract mathematical systems by means of geometric content in order to develop logic processes.

### **1321/2321 - Accelerated Algebra 2 (Honors Grading Scale)**

**Prerequisites: Accelerated Geometry (preferred grade of “B” or better) or teacher recommendation**

This course covers topics from Algebra 2 but at a higher level and in more depth. Accelerated Algebra 2 expands the study of mathematics to include complex numbers, systems of equations and inequalities, sequences and series, conic sections, and data collection and analysis.

### **1334/2334 - Accelerated Pre-Calculus with Trigonometry (Honors Grading Scale)**

**Prerequisites: Accelerated Algebra 2 (preferred grade of “B” or better) or teacher recommendation**

This course covers the topics from Precalculus with Trigonometry but at a higher level and in more depth. The course is more rigorous in preparation for students to take Advanced Placement Calculus and also includes the introduction of Calculus (limits and definition of derivative).

### **1336/2336 - Advanced Placement Calculus AB**

**(AP grading scale; Can earn college credit)**

**Prerequisites: Accelerated Precalculus with Trigonometry (preferred grade of “B” or better) or teacher recommendation**

This course covers both differential and integral calculus and a variety of their applications are included. The content is essentially the same as that in any college-level beginning calculus course. Calculus is generally a requirement for students majoring in engineering, computer science, business, mathematics, science, and some other fields. This class prepares the student to take College Board’s A.P. Calculus AB exam. Performance on the exam determines whether college credit will be earned.

# Mathematics

## Accelerated Pathway

### **1358/2358 - Advanced Placement Statistics**

**(AP grading scale; Can earn college credit)**

**Prerequisites: Algebra 2 (preferred grade of B or better)**

The AP Statistics course is equivalent to an introductory, non-calculus-based college course in statistics. The course introduces students to major concepts and tools for collecting, analyzing, and drawing conclusions from data. There are four themes in the AP Statistics course: exploring data, sampling and experimentation, anticipating patterns, and statistical inference. Students use technology, investigations, problem solving, and writing as they build conceptual understanding. This class prepares the student to take College Board's A.P. Statistics exam. Performance on the exam determines whether college credit will be earned.

### **Stevenson High School Only**

### **1338/2338 - Advanced Placement Calculus BC**

**(AP grading scale; Can earn college credit)**

**Prerequisites: Accelerated Precalculus with Trigonometry (preferred grade of "B" or better) or invitation by the mathematics department**

The AP Calculus course is equivalent to a Calculus based college course. The topics include: limits, derivatives, integrals, applications, and convergent and divergent series. This class prepares the student to take College Board's A.P. Calculus BC exam. Performance on the exam determines whether college credit will be earned.

# Mathematics

## Electives

### **1344/2344—Financial Literacy (Grades 12)**

**Prerequisites: Senior status. Seniors may enroll in this course for one semester, either first or second, or for the entire year.**

The Financial Literacy course concentrates on applying mathematics to concepts of personal finance and budgeting to help students be financially literate and make sound money decisions. Topics include: income, banking, credit cards, health insurance, taxes, funding post-secondary education, transportation costs, housing costs, budgeting, and investments.

### **1345/2345—Trigonometric Explorations**

**Prerequisites: Algebra 2 with a grade of C or below or teacher recommendation.**

This course introduces students to a variety of basic trigonometric topics such as trigonometric functions, graphs, and identities by building on the algebraic topics taught in Algebra 2 including the families of functions, complex numbers, conic sections, and sequences and series.

### **1329/2329 - Calculus (Grades 12)**

**Prerequisites: Pre-Calculus or Accelerated Pre-Calculus with Trigonometry**

This course is designed to strengthen the student's mathematical background and to give them an introduction to the topics of calculus. It will not prepare them to take the AP exam in mathematics.

# Science

Livonia Public Schools offers science and STEM pathways of study dependent on the interests, career goals and achievement of students. To be successful, students should choose the program and courses that match their goals.

## Ninth Grade



Biology  
Advanced Biology

## Tenth Grade



Chemistry  
Advanced Chemistry  
Physics  
Advanced Physics

## Eleventh and Twelfth Grades



Chemistry  
Advanced Chemistry  
Physics  
Advanced Physics  
AP Biology  
AP Chemistry  
AP Physics  
AP Environmental Science  
Semester Electives  
CTE Course



# Livonia Public Schools High School Science Courses

## SEMESTER ELECTIVES

Natural Disasters  
Ecology  
Astronomy  
Bioethics  
Engineering Essentials (PLTW)

## CTE COURSES

Enrollment in a CTE Course can be exchanged for  
the third year of science credit

**Three Years of Science Are Required for Graduation.**

**Biology, Chemistry or Physics and a third science are required**

# Science

In the required science courses, students will receive a minimum of one hour per semester in a structured online learning activity that utilize technology with Internet-based tools and resources as the delivery method for instruction, research, assessment, and/or communication.

**COLLEGE AND CAREER PATHWAY**—For all students who are planning on being employed or attending a college after high school. The State of Michigan requires Biology, Chemistry, and a third year of science.

**ADVANCED PROGRAM** — For those students who have outstanding ability, achievement, and interest in Science and science fields. Advanced science courses are graded using the traditional grading scale.

## Recommended Selection of Courses:

### 9<sup>th</sup> GRADE

Advanced Biology or Biology

### 10<sup>th</sup> GRADE

Advanced Chemistry or Chemistry

Advanced Physic or Physics

Electives: AP Environmental Science, Ecology, Natural Disasters, Astronomy.

Engineering Essentials (PLTW)

### 11<sup>th</sup> GRADE

Advanced Chemistry or Chemistry

Advanced Physics or Physics

Electives: AP Biology, AP Chemistry, AP Environmental Science, Bioethics, Ecology,

Natural Disasters, Astronomy, Engineering Essentials (PLTW)

### 12<sup>th</sup> GRADE

Electives: AP Biology, AP Chemistry, AP Environmental Science, AP Physics,

Bioethics, Ecology, Natural Disasters, Astronomy, Engineering Essentials (PLTW)

# Science

## College And Career Pathway

### **1365/2365—Biology (Grade: 9)**

This course develops an understanding of the biology concepts under the Michigan Science Standards for Life Sciences. Concepts are centered around matter and energy in living organisms and ecosystems, structure and function of organisms, inheritance and variance of traits, and natural selection. Labs, discussions, instruction, and assignments will promote the scientific practices of asking questions, developing and using models, planning and conducting experiments, analyzing and interpreting data, using mathematical thinking, constructing explanations, and engaging in arguments from evidence. This course provides a foundation for all future science course selections.

### **1384/2384—Chemistry (Grades 10,11,12)**

#### **Prerequisites: Completion or concurrent enrollment in Algebra 1**

This course develops an understanding of the chemistry concepts under the Michigan Science Standards for Physical Sciences. Students will focus on an understanding of concepts including the structure and properties of matter, chemical reactions, and the conservation and transfer of energy. Labs, discussions, instruction, and assignments will promote the scientific practices of asking questions, developing and using models, planning and carrying out experiments, analyzing and interpreting data, mathematical thinking, engaging in argument from evidence, and obtaining, evaluating, and communicating information.

### **1389/2389—Physics (Grades 10,11,12)**

#### **Prerequisites: Completion of Algebra 1**

Students will develop an understanding of the physics concepts under the Michigan Science Standards for Physical Sciences. Students will focus on a understanding of physics concepts including force, motion, and energy. Labs, discussions, instruction, and assignments will promote the scientific practices of asking questions, developing and using models, planning and carrying out experiments, analyzing and interpreting data, mathematical thinking, engaging in argumentation from evidence, and obtaining, evaluating, and communicating information.

# Science

## Advanced Pathway

### **1366/2366 - Advanced Biology (Grade: 9)**

**Students self-select Biology or Advanced Biology, students reading at or above grade level are preferred**

This course develops an understanding of the Biology concepts under the Michigan Science Standards for life sciences and is recommended for students that want a deeper dive into Biology concepts or are possibly considering a career in science, medicine or engineering. Concepts are centered around matter and energy in living organisms and ecosystems, structure and function of organisms, inheritance and variance of traits, and natural selection. Labs, discussions, instruction and assignments will promote the scientific practices of asking questions, developing and using models, planning and conducting experiments, analyzing and interpreting data, using mathematical thinking, constructing explanations, and engaging in arguments from evidence. This course provides a foundation for all future science courses selections such as advanced chemistry and physics and science AP Courses.

### **1386/2386 - Advanced Chemistry (Grades: 10,11,12)**

**Prerequisites: Completion of Algebra 1**

In this course students develop an understanding of the Chemistry concepts under the Michigan Science Standards for physical sciences and is recommended for students that want a deeper dive into Chemistry concepts or are possibly considering a career in science, medicine or engineering. In Advanced Chemistry there is a stronger emphasis on using mathematical thinking to understand the concepts. Students will focus on a deep understanding of chemistry concepts including the structure and properties of matter, chemical reactions and the conservation and transfer of energy. Labs, discussions, instruction and assignments will promote the scientific practices of asking questions, developing and using models, planning and carrying out experiments, analyzing and interpreting data, mathematical thinking, engaging in argumentation from evidence, and obtaining, evaluating and communicating information.

### **1389/2389 - Advanced Physics**

**Prerequisites: Completion or concurrent enrollment in Algebra 2**

In this course students develop an understanding of the Physics concepts under the Michigan Science Standards for physical sciences and is recommended for students that want a deeper dive into Physics concepts or are considering a career in science, medicine or engineering. In Advanced Chemistry there is a stronger emphasis on using mathematical thinking to understand the concepts. Students will focus on a deep understanding of physics concepts including force, motion and energy. Labs, discussions, instruction and assignments will promote the scientific practices of asking questions, developing and using models, planning and carrying out experiments, analyzing and interpreting data, mathematical thinking, engaging in argument from evidence, and obtaining, evaluating and communicating information.

# Science

## Advanced Pathway

### **1374/2374—Advanced Placement Biology (AP grading scale; Can earn college credit)**

#### **Prerequisites: Completion of Biology and Chemistry**

AP Biology is an introductory college-level biology course taken over two semesters. Students cultivate their understanding of biology through inquiry-based investigations as they explore the following topics: evolution, cellular processes, energy and communication, genetics, information transfer, ecology, and interactions. This class prepares the student to take College Board's A.P. Biology exam. Performance on the exam determines whether college credit will be earned.

### **1382/2382—Advanced Placement Environmental Science (AP grading scale; Can earn college credit)**

#### **Prerequisites: Completion of Biology**

AP Environmental Science is a two-semester course designed to be the equivalent of a one-semester, introductory college course in environmental science, through which students engage with the scientific principles, concepts, and methodologies required to understand the interrelationships within the natural world. This course requires that students identify and analyze natural and human-made environmental problems, evaluate the relative risks associated with these problems, and examine alternative solutions for resolving or preventing them. Environmental science is interdisciplinary, embracing topics from Geology, Biology, Environmental Studies, Environmental Science, Chemistry, and Geography. This class prepares the student to take College Board's A.P. Environmental exam. Performance on the exam determines whether college credit will be earned.

# Science

## Advanced Pathway

### **1388/2388—Advanced Placement Chemistry**

**(AP grading scale; Can earn college credit)**

**Prerequisites: Chemistry and completion or concurrent enrollment in Algebra 2**

AP Chemistry is a two-semester, lab-based introductory college-level chemistry course. Students cultivate their understanding of chemistry through inquiry-based lab investigations as they explore the four Big Ideas: scale, proportion, and quantity; structure and properties of substances; transformations; and energy. This class prepares the student to take College Board's A.P. Chemistry exam. Performance on the exam determines whether college credit will be earned.

### **1392/2392—Advanced Placement Physics C**

**(AP grading scale; Can earn college credit)**

**Prerequisites: Physics and completion or concurrent enrollment in Calculus**

This course centered on mechanics is a calculus-based, hands-on laboratory class comparable to a semester-long introductory college-level physics laboratory. This class will include alt covers kinematics; Newton's laws of motion; work, energy, and power; systems of particles and linear momentum; circular motion and rotation; oscillations; and gravitation. Emphasis will be placed on the use of calculus to solve challenging problems. This class will prepare students to take the College Board's AP Physics C: Mechanics exam.

# Science

## Electives

### **T367—Bioethics 1 semester (Grades: 11, 12)**

#### **Prerequisites: Biology or Advanced Biology**

This one-semester course will examine current ethical dilemmas using biological case studies. Students will practice using and building upon their critical thinking and problem solving skills as they discuss and debate the role of scientific advancements, as well as the ethics of the cases. Topics include, but are not limited to, cloning, transgenic therapy, euthanasia, and stem cell research, to name a few. In addition to discourse, students will be expected to write several position papers, an essay, and to collaborate on a student project. In taking this class, students will become more informed and rational decision makers based on scientific understanding of current events in bioethics.

### **T370—Ecology 1 semester (Grades: 10, 11, 12)**

#### **Prerequisites: Biology or Advanced Biology**

Ecology is the study of the relationships between living organisms, including humans, and their physical environment. During this one-semester course, students will become familiar with and understand major ecological concepts and processes, be given an overview of local and global environmental issues, and examine individual, group, and governmental activities important for protecting our natural ecosystems. Students should expect to participate in research of current ecological topics, class discussions, labs and other individual and group projects.

### **T379—Natural Disasters-1 semester (Grades: 10, 11, 12)**

#### **Prerequisites: None**

Take a journey through the amazing processes that occur on our own planet. Natural disasters play a fundamental role in sculpting landscapes and structuring natural and human based ecosystems. This one-semester course will explore the natural and social implications of natural disasters by studying their causes, their ecological and social consequences, and the role of human behavior in causing and dealing with natural disasters. The course is split into geologic and weather related events. Severe weather topics include thunderstorms, tornados, hurricanes, and winter storms. The course also includes the impact of plate tectonics such as volcanoes, tsunamis, and earthquakes.

# Science

## Electives

### **380—Astronomy - 1 semester (Grades: 11, 12)**

#### **Prerequisites: Physics Recommended**

Take a journey through space and time in this one-semester Astronomy course. The principles of life, chemistry, Earth, and physical science are integrated in this study of the cosmos. The moon, sun, solar system, minor planets, constellations, and the formation of stars are the major topics of study. Observational astronomy skills and critical thinking are cultivated through laboratory and field activities.

### **1368- Genetics - 1 semester (Grades: 11, 12)**

This course will encompass the study of heredity in plants and animals with Human genetics as the main focus. The scope of the one-semester class will include cellular/molecular genetics, the mechanisms involved in the transmission of traits from one generation to another, principles of genetic engineering and biotechnology, epigenetics, stem cell research and applications, gene therapies, and bioethics. Students will practice and develop their critical thinking and problem solving skills during laboratory activities and human genetic case studies (i.e. hereditary hemochromatosis, sickle cell disease, Fanconi anemia, osteogenesis imperfecta).

### **T831—Engineering Essentials (STEM Pathway) (Grades: 9-12)**

Engineers don't sit back and watch—they make things happen. They use models provided by science combined with innovative thinking to solve problems and create new designs that benefit humanity. Engineering Essentials is a foundational survey course in the diverse career opportunities associated with engineering. Whether the challenge be in design, construction, or maintenance, and the field be transportation, space, or the environment, engineers are the creative-thinkers and problem-solvers. This course introduces students to a variety of career connections by providing diverse examples of engineering professionals engaged in addressing engineering challenges—from increasing global equity through international relief efforts and discovering alternative energy solutions to planning sustainable cities and inventing new technologies to improve people's health.

# Social Studies

Livonia Public Schools offers pathways of study dependent on the interests, career goals, and achievement of students. In social studies, our goal is to prepare students to be active and responsible citizens who will participate in their communities and their country. To be successful, students should choose the program and courses that match their goals.



## **Ninth Grade**

World History or Accelerated World History



## **Tenth Grade**

U.S. History or AP US History



## **Eleventh Grade**

American Government  
AP American Government  
Economics

(Personal Finance is a part of Economics beginning with the Class of 2028)



## **Twelfth Grade**

Social Studies Electives

# **Livonia Public Schools High School Social Studies Courses**

## **ELECTIVES**

**AP United States History**  
**AP United States Government & Politics**  
**AP Microeconomics**  
**AP Macroeconomics**  
**AP Psychology**  
**General Psychology**  
**Sociology**  
**Law and Justice**

**Three Credits of Social Studies are Required for Graduation.**  
Required courses include World History, U.S. History, Government, and Economics.

# Social Studies

In the social studies required courses, students will receive a minimum of 1 hour per semester in a structured online learning activity that utilizes technology with Internet-based tools and resources as the delivery method for instruction, research, assessment, and/or communication.

**COLLEGE AND CAREER PATHWAY**—For all students who are planning on being employed or attending a college after high school. The State of Michigan requires World History, US History, Government, and Economics. **Beginning with the Class of 2028, this course will incorporate the 2022 State of Michigan Personal Finance Standards.**

**ACCELERATED PROGRAM** —For those students who have outstanding ability, achievement, and interest in the fields related to social studies, history, economics, and political science, Accelerated social studies courses are graded using the honors grading scale.

## Recommended Selection Of Courses:

### 9th GRADE

Accelerated World History or World History

### 10th GRADE

US History or AP US History

### 11th GRADE

AP Government & Politics, American Government/Politics (1 semester), Economics (1 semester)

Electives: Law and Justice, General Psychology, Sociology, AP US History, AP Macroeconomics

### 12th GRADE

Electives: Law and Justice, General Psychology, Economics, Sociology, AP Government & Politics, AP US History, AP Macroeconomics, AP Microeconomics, AP Psychology

# Social Studies

## College And Career Pathway

### **1403/2403 - World History (Grade: 9)**

#### **Prerequisites: None**

This course will develop a student's understanding of the political, economic, religious, social, intellectual, and geographic development in civilizations of both the Eastern and Western Hemispheres. Making use of a variety of resources, including an online learning component, the course will cover Era 4 (300-1500) through modern times.

### **1409/2409 - U.S. History (Grade: 10)**

#### **Prerequisites: None**

The development of the United States from 1870 to the present is emphasized in this two-semester sequential course. Students develop an understanding of political, economic, religious, social, intellectual, and geographic relationships affecting the United States in history and in today's world. Using the Declaration of Independence, the Constitution, the amendments, and other historical documents, students develop knowledge, understanding, and application of the core democratic values given in these documents.

### **TT442 - Economics (Grades: 11, 12)**

**1 Semester**

#### **Prerequisites: None**

This course of studies on American and global economic systems. The course covers basic economic concepts and a thorough examination of micro and macro economic theories. **Beginning with the Class of 2028, this course will incorporate the 2022 State of Michigan Personal Finance Standards.**

### **T420 - American Government (Grades: 11-12)**

**1 Semester**

#### **Prerequisites: None**

In this course, students will study the foundations, structure, and responsibilities of the United States Government. An understanding of the rights and responsibilities of citizens and the elections process will be included.

# Social Studies

## Accelerated Pathway

### **1404/2404—Accelerated World History (Grade: 9) (Honors Grading Scale)**

**Prerequisites: Recommend a B- or higher in 8th grade US History.**

This two-semester course is designed for students who have demonstrated exceptional and outstanding performance in social studies. Students are required to read and research intensively in World History. Analytic writing and critical thinking processes are incorporated in class work. Successful course work is directed toward preparation for Accelerated / Advanced Placement (AP) courses including AP U.S. History. Students will develop an understanding of political, economic, religious, social, intellectual, and geographic development in civilizations of both the Eastern and Western Hemispheres. Making use of a variety of resources, including an online learning component, the course will cover history through modern times.

### **1418/2418—Advanced Placement U.S. History (Grade: 10)**

**(AP grading scale; Can earn college credit)**

**Prerequisites: Students should be able to read and comprehend a college-level textbook and write grammatically correct, complete sentences.**

This two-semester course is designed for students who have demonstrated exceptional and outstanding performance in social studies. Students are required to read and research intensively in United States History. Analytic writing and critical thinking processes are incorporated in class work. This class prepares the student to take College Board's A.P. U.S. History exam. Performance on the exam determines whether college credit will be earned.

# Social Studies

## Accelerated Pathway

### **1422/2422—Advanced Placement U.S. Government and Politics (Grades: 11-12) (AP grading scale; Can earn college credit)**

**Prerequisite: Students should be able to read and comprehend a college-level textbook and write grammatically correct, complete sentences.**

This two-semester course is designed for students that have demonstrated exceptional interest and outstanding performance in Social Studies. Advanced Placement U.S. History is not required, but it is recommended. Students are required to read and research intensively in American Government. Supplemental readings to the textbook are required. Analytical writing and critical thinking processes are incorporated in class work. This class prepares the student to take College Board's A.P. U.S. Government and Politics exam. Performance on the exam determines whether college credit will be earned.

### **1437/2437—Advanced Placement Psychology (Grades: 11-12) (AP grading scale; Can earn college credit)**

**Prerequisites: Students should be able to read and comprehend a college-level textbook and write grammatically correct, complete sentences. Senior status recommended.**

This two-semester course is designed to give students a thorough understanding of psychology that includes theories of learning and personality development, abnormal psychology and treatment, motivation, research methods, sensation and perception, and other aspects of human behavior. Students are required to read and research psychology topics. Writing and critical thinking processes are incorporated in class work. Students should expect a minimum of one hour of homework each night that includes reading, studying, and labs. This class prepares the student to take College Board's A.P. Psychology exam. Performance on the exam determines whether college credit will be earned.

# Social Studies

## Accelerated Pathway

### **T443—Advanced Placement Macroeconomics (Grades: 11-12)**

**(AP grading scale; Can earn college credit)**

**Prerequisite: AP Macroeconomics is equivalent to a one-semester introductory college course in economics. Students should be able to read and comprehend a college-level textbook and possess basic mathematics and graphing skills.**

**This course should be taken in the same year as AP Microeconomics.**

This is a one-semester course that is designed to give students a thorough understanding of the principles of economics that apply to an economic system as a whole. This course places particular emphasis on the study of national income and price-level determination, and also develops students' familiarity with economic performance measures, the financial sector, stabilization policies, economic growth, and international economics. Supplemental readings to the textbook are required.

Analytical writing and critical thinking processes are incorporated in class work. This class prepares the student to take College Board's A.P. Macroeconomics exam.

Performance on the exam determines whether college credit will be earned.

### **T447—Advanced Placement Microeconomics (Grades: 10, 11, 12)**

**(AP grading scale; Can earn college credit)**

**Prerequisite: AP Microeconomics is equivalent to a one-semester introductory college course in economics. Students should be able to read and comprehend a college-level textbook and possess basic mathematics and graphing skills.**

**This course should be taken in the same year as AP Macroeconomics.**

This one-semester course is designed to give students a thorough understanding of the principles of economics that apply to the functions of individual decision makers, both consumers and producers, within the economic system. It places primary emphasis on the nature and functions of product markets and includes the study of factor markets and of the role of government in promoting greater efficiency and equity in the economy. This class prepares the student to take College Board's A.P. Microeconomics exam. Performance on the exam determines whether college credit will be earned.

# Social Studies

## Electives

### **T436—Sociology (Grades: 10,11, 12)**

#### **Prerequisites: Junior or Senior status recommended**

The student is engaged in a variety of experiences and interactions such as discussion, role playing, and media analysis to apply sociology to his/her own life and situation. Sociology is the scientific study of people and the affects of groups on the individual. Real-life observation and analysis of social concepts and issues including race, gender, culture, abuse, and social class are explored through a sociological framework.

### **1438/2438 Psychology (Grades: 11, 12)**

In this one-semester course, students will become involved in an introductory study of abnormal psychology, biopsychology, the theories of learning and personality development, and other aspects of the study of human behavior.

### **T444—Law and Justice: The Constitution at Work (Grades: 11, 12)**

#### **Prerequisites: Junior or Senior status recommended.**

Rights and application of the Constitution are the core of Law and Justice. This course features mock trials, simulations, and guest speakers to illustrate key concepts of the law. Practical experiences, critical thinking, research, and student involvement are required. Students examine criminal and civil law and contemporary legal issues. In addition to understanding the laws that affect students, this course is an excellent opportunity for exposure to law related careers.

### **1199/2199—Independent Study—Social Studies (Grades: 11, 12)**

#### **Prerequisites: Approval Required**

Independent Study is designed for students who have a high interest in a particular area which is not covered in the regular curriculum. An in-depth study may be pursued upon acceptance of a thorough plan for the study to be conducted. This course may be elected only after approval is obtained from the assistant principal, the department chairperson, the teacher to be involved, and the student's parents.

### **2434 - International Relations - STEVENSON HIGH SCHOOL ONLY**

International Relations offers the inquisitive student an opportunity to examine and investigate the role of the countries throughout the world and international organizations in order to better understand how they operate in policy areas including diplomacy, conflict resolution, strategic thinking, non-state actors, and the global economy. Through discussion, research, multimedia engagement, geographical infusion, independent reading and reaction, and use of technology, students will be able to not only become well versed in the language and theory of international relations, they will also then be able to use this knowledge to examine and evaluate historical IR case studies.



# Livonia Public Schools High School Electives

**\*Not all electives will be offered at all high schools**

- **Required Electives for Graduation -Personal Fitness and Health**
- **Physical Education Electives**
- **Required Electives for Graduation-World Language**

# Required Elective Areas

## Health and Physical Education

*All students who graduate from a Livonia Public High School must successfully complete the following two courses: 464 Personal Fitness and 468 Health. It is recommended that Personal Fitness be taken in the ninth grade year and Health be taken in the tenth grade year.*

### **T464—Personal Fitness OR T492—Personal Fitness (7th hour)**

This one-semester required course is aligned to the Michigan K-12 Physical Education Content Standards and Benchmarks and is specific to Livonia Public Schools. It is a “sequential educational program that provides students with the knowledge, skills, fitness, and attitudes needed to lead a healthy life”. Personal Fitness is comprised of the following areas:

1. Health-Related Fitness - 1/3 of the total class time will be filled with fitness activities such as Fitnessgram testing, fitness center, cardiovascular activities, as well as classroom learning opportunities.
2. Aquatics - Three weeks will be spent in the pool. Students will learn front crawl, backstroke, breaststroke, and more. Students will also learn basic lifesaving and pool safety guidelines.
3. Net/Wall Games - tennis and volleyball.
4. Invasion Games - soccer and basketball.
5. Striking and Fielding - softball and/or kickball

Students will be assessed in every physical education area. Students will demonstrate proficiency on the Michigan K-12 Physical Education Content Standards through ongoing assessments, observations, and tests.

### **T468—Health OR T491—Health (7th hour)**

This one-semester course will enable students to become better informed regarding decisions about the care and maintenance of their personal health. Students will be instructed in the following units: Nutrition and Physical Activity, Alcohol, Tobacco, and Other Drugs, Social and Emotional Health, Personal Health and Wellness, and hands only CPR and AED training.

A unit on human sexuality and reproduction will also be taught to develop student self-awareness and coping with personal feelings in everyday problems and situations. A parent/guardian meeting will be held for review of materials and course outline. If a parent/guardian requests that their child be excluded from this unit, alternate assignments<sup>69</sup> will be required from these students.

# Elective Areas

## Health and Physical Education

### **T467—Whole-Self Fitness - (Grades 9-12)**

This course may implement the following forms of exercise and mindfulness: yoga, pilates, fitballs, stretching, and meditation.

This class is beneficial in the following areas:

1. Improved flexibility
2. Injury prevention
3. Improved balance
4. Improved Strength
5. Stress reduction
6. Improved self-awareness

### **T471—Team Sports (Grade 9-12)**

**Prerequisites: 464 or 492 Personal Fitness.**

This course will allow the student the opportunity to improve his/her skills to maintain a moderate level of fitness and to develop stress reduction techniques through the enjoyment and pleasure he/she receives in participating in the following activities: team handball, soccer, flag football, softball, basketball, volleyball, and pickleball, and eclipse ball.

# Elective Areas

## Health and Physical Education

### **T472—Weight Training (Grades 9-12)**

#### **Prerequisites: 464 or 492 Personal Fitness**

This course is designed to introduce the student to several introductory weight-lifting programs. The student will learn correct free-weight lifting techniques along with instructions on how to use all equipment in the weight room. The student will also gain knowledge of different muscle groups and which piece of equipment builds those specific muscle groups.

### **T476—Advanced Weights (Grades 9-12) FHS and SHS Only**

#### **Prerequisites: 464 or 492 Personal Fitness and 472 Weight Training**

This course will offer the student a highly intensive cardiovascular workout along with a challenging plyometric jump training circuit. This program is designed for serious strength training for the highly motivated student.

### **T476—Advanced PE/Weight Training and Conditioning (Offered Semester 2 only)**

#### **Grades 9-12 Prerequisites: 464 or 492 Personal Fitness and 472 Weight Training 1**

This course will offer the student a highly intensive cardiovascular workout along with a challenging plyometric jump training circuit. These workouts will specifically be designed to improve agility, reaction time, quickness, power, strength, and fast-twitch muscles. The course incorporates three days of advanced strength training in which the bigger, faster, and stronger program is implemented. This program is designed for serious strength training for the highly motivated student. The other two days of the week the student will develop fast-twitch muscles that include the use of plyometric drills that promotes speed, quickness, power, agility, and reaction time.

### **Sports Strategies (CHS and SHS)/Strength and Conditioning (FHS) (Grades 9-12)**

#### **Prerequisites: 464 or 492 Personal Fitness**

This course will offer the student a highly intensive, sports specific training for the serious athlete. The course is designed to introduce and practice/develop sports specific power, strength, speed, agility, and range of motion skills for the highly motivated student-athlete.

# Required Elective Areas

## World Languages

*All students who graduate from a Livonia Public Schools must successfully complete two of the following:*

***Two years of the same World Language, or  
One credit of the same World Language and the completion of a Career and Technical Education (CTE) Program, or  
One credit of World Language and One unit of VPAA in addition to required VPAA credit***

The World Language department recognizes the critical role of World Language proficiency in our nation. Thus, we provide a proficiency-based curriculum which is defined by the learner demonstrating comprehension of written and spoken language as well as the ability to talk and write in the language. Grammar instruction is applied to communicative activities to permit more effective communication. Our goal is to prepare students to function appropriately in spoken and written form, in a range of situations, and with a degree of accuracy. The end goal of the department is to have students be able to demonstrate proficiency in the Intermediate Low to Intermediate Mid -Range of proficiency.

Students reaching the Intermediate range of proficiency will be able to:

- understand the main idea and some pieces of information on familiar topics from sentences and series of connected sentences within texts that are spoken, written, or signed.
- participate in spontaneous spoken and/or written conversations on familiar topics, creating sentences and series of sentences to ask and answer a variety of questions.
- communicate information, make presentations, and express my thoughts about familiar topics, using sentences and series of connected sentences through spoken or written language.
- interact at a functional level in some familiar contexts.
- make comparisons between products and practices in their own and other cultures to help in understanding perspectives.

(Source: "NCSSFL-Actfl Can-Do Statements." ACTFL, 2017, [www.actfl.org/educator-resources/ncssfl-actfl-can-do-statements](http://www.actfl.org/educator-resources/ncssfl-actfl-can-do-statements).)

***Students who identify as heritage or native speakers are strongly encouraged to talk with their counselor before course selection about correct placement options.***

# Required Elective Areas

## World Languages

### **1250/2250—French 1 Prerequisites: None**

French 1 provides a foundation in French language skills and Francophone culture. This course emphasizes speaking and listening skills while introducing the mechanics of reading and writing. Basic grammar skills are introduced. Communication in a variety of "real life" settings is a goal so students must demonstrate a willingness to perform and participate in the French language. Students will begin working towards a Novice-High proficiency level.

**NOTE: Students who have completed the French 1 course in the middle school with a passing grade should enroll in French 2.**

### **1252/2252—French 2 Prerequisites: French 1**

French 2 strengthens the listening, speaking, reading, writing, cultural, and linguistic skills acquired in the first year. The variety of situations in which the student must communicate is broadened and more communicative functions are added to the student's repertoire. Students will work towards a Novice-High proficiency level.

### **1254/2254—French 3 Prerequisites: French 2 ((Recommended grade of "C" or better)**

French 3 refines the listening, speaking, reading, writing, and linguistic skills acquired in the first two years of study. In addition, students will refine Francophone intercultural awareness by further exploring the Francophone culture. Students are encouraged to begin communicating in the target language. Students will begin working towards an Intermediate-Low proficiency level.

### **1256/2256—French 4 Prerequisites: French 3 (Recommended grade of "C" or better)**

French 4 develops the communicative skills of students while exploring Francophone literature, culture, and history. More precise vocabulary and grammar are developed to help further communication. Students are encouraged to communicate in the target language. Students will work towards demonstrating an Intermediate-Low to Intermediate-Mid proficiency level.

### **1258/2258—French 5 Prerequisites: French 4 (Recommended grade of "C" or better)**

French 5 continues developing the communicative skills of students while exploring Francophone literature, culture, and history. More precise vocabulary and grammar are developed to help further communication. Students are encouraged to communicate in the target language. Students will work towards demonstrating an Intermediate-Low to Intermediate-Mid proficiency level.

# Elective Areas

## World Languages

### **1262/2262—German 1**

German 1 provides a foundation in German language and culture. Students develop skills in listening and reading while being introduced to the mechanics of speaking and writing. Basic grammar skills are introduced. Communication in a variety of “real life” settings is a goal so students must demonstrate a willingness to participate in the German language. Students will begin working towards a Novice High proficiency level.

**NOTE: Students who have completed the German 1 course in the middle school with a passing grade should enroll in German 2.**

### **1264/2264—German 2 Prerequisites: German 1**

German 2 is designed to strengthen the listening, speaking, reading, writing, cultural and linguistic skills acquired in the first year. The variety of situations in which the student must communicate is broadened and more communicative functions are added to the student's repertoire. Students will work towards a Novice High proficiency level.

### **1266/2266—German 3 Prerequisites: German 2 (Recommended grade of “C” or better)**

German 3 refines the listening, speaking, reading, writing, and linguistic skills acquired in the first two years of study. In addition, students will refine Germanic intercultural awareness by further exploring the Germanic culture. Students are encouraged to begin communicating in the target language. Students will begin working towards an Intermediate-Low proficiency level.

### **1268/2268—German 4 Prerequisites: German 3 (Recommended grade of “C” or better)**

German 4 develops the communicative skills of students while exploring Germanic literature, culture, and history. More precise vocabulary and grammar are developed to help further communication. Students are encouraged to communicate in the target language. Students will work towards demonstrating an Intermediate Low to Intermediate Mid proficiency level.

### **1269/2269—German 5 Prerequisites: German 4 (Recommended grade of “C” or better)**

German 5 continues developing the communicative skills of students while exploring Germanic literature, culture, and history. More precise vocabulary and grammar are developed to help further communication. Students are encouraged to communicate in the target language. Students will work towards demonstrating an Intermediate-Low to Intermediate-Mid proficiency level.

# Elective Areas

## World Languages

### **1276/2276—Spanish 1**

Spanish 1 provides a foundation in Spanish language and culture. Students develop skills in listening and reading while being introduced to the mechanics of speaking and writing. Basic grammar skills are introduced. Communication in a variety of "real life" settings is a goal so students must demonstrate a willingness to perform and participate in the Spanish language. Students will begin working towards a Novice-High proficiency level.

**NOTE: Students who have completed the Spanish 1 course in the middle school with a passing grade should enroll in Spanish 2.**

### **1278/2278—Spanish 2 Prerequisites: Spanish 1**

Spanish 2 is designed to strengthen the listening, speaking, reading, writing, cultural and linguistic skills acquired in the first year. The variety of situations in which the student must communicate is broadened and more communicative functions are added to the student's repertoire. Students will work towards a Novice-High proficiency level.

### **1280/2280—Spanish 3 Prerequisites: Spanish 2 (Recommended grade of "C" or better)**

Spanish 3 refines the listening, speaking, reading, writing, and linguistic skills acquired in the first two years of study. In addition, students will refine Spanish intercultural awareness by further exploring the Spanish-speaking culture. Students are encouraged to begin communicating in the target language. Students will begin working towards an Intermediate-Low proficiency level.

### **1282/2282—Spanish 4 Prerequisites: Spanish 3 (Recommended grade of "C" or better)**

Spanish 4 develops the communicative skills of students while exploring the literature, culture, and history of the Hispanosphere. More precise vocabulary and grammar are developed to help further communication. Students are encouraged to communicate in the target language. Students will work towards demonstrating an Intermediate-Low to Intermediate-Mid proficiency level.

### **1284/2284—Spanish 5 Prerequisites: Spanish 4 (Recommended grade of "C" or better)**

Spanish 5 continues developing the communicative skills of students while exploring literature, culture, and history of the Hispanosphere. More precise vocabulary and grammar are developed to help further communication. Students are encouraged to communicate in the target language. Students will work towards demonstrating an Intermediate-Low to Intermediate-Mid proficiency level.

# Elective Areas

## Leadership and Service

### **T827—Student Leadership- 1 semester**

Leadership is a class designed to develop the leadership skills of each student. Students will learn about leadership traits and principles and each student will evaluate their own personal leadership style with the idea in mind that leadership is a learned skill. Students will learn how to conduct a meeting, organize and direct a committee, motivate and create synergy, and other aspects of leadership. Students will also learn about goal setting, appropriate communication skills, and conflict resolution. Finally, students will have the opportunity to explore how to use their leadership skills outside of the classroom. This class is open to all students with the permission of the Student Activities Director.

### **T853—Educational Leadership - 1 semester (Grades: 11, 12)**

**Prerequisite: Upon approval of counselor and administration.**

Educational Leadership seeks to utilize the strengths of student mentors (tutors) in working with peers to supplement classroom instruction (mentor and tutor are used synonymously as the role of tutor also includes maintaining supportive and encouraging relationships). Educational Leadership encourages student leaders to take action in their own school to improve student achievement and maintain a positive and successful school climate. Student mentors provide a more convenient and comfortable way for students to achieve at their highest potential. Mentors model professionalism and work toward successful goal development in their regular contacts with other students. Educational Leadership provides a gratifying experience by helping others learn and grow.

### **T457—Community Service - 1 semester (Grades: 11, 12) FRANKLIN HS ONLY**

Through helping others, Community Service offers students an opportunity to better understand themselves and to make a connection to our human existence. It is a course designed to broaden one's understanding of compassion, responsibility, and to building a sense of self-efficacy. This course will develop the mind-set and skills involved in serving others. Through readings, discussions, reflections, written assignments, lectures, volunteering, and ultimately first-hand observation and interaction, students in the Franklin High School Community Service course will gain the skills of problem-solving, interpersonal relations, communication, and the ability to function as part of a larger team. Students will be witness to and learn from the social and emotional growth of cognitively impaired students in the Franklin Transition Program (FTP). An experience in Community Service has inspired many toward a life-long commitment of service to others.

# Elective Areas

## Interdepartmental Programs

### **T796—Theater Tech- - 1 semester**

This class explores the areas of theatrical production and stagecraft. Students in this course will read, watch, discuss, and analyze historical and contemporary plays. They will examine aesthetic concerns of the audience, playwright, performers, director, and designers and demonstrate technical knowledge of safety procedures and safe operation of theatre equipment, which will require physical movement such as climbing, lifting, and building. Students will be required to attend or participate in technical work and/or performances beyond the school day to support, extend, and assess learning in the classroom.

# Elective Areas

## STEM and Computer Science

### **T830—Computer Science Principles (STEM Pathway) (Grades 9-12)**

Computer Science Principles is a stepping stone along the STEM Pathway and it will be based upon the Project Lead the Way curriculum. Using Python as a primary tool, students will build knowledge and skills in engineering and computer science. The course will provide a strong foundation of computing skills for high school, college, and career success. In addition, Computer Science Principles will foster creativity and enhance skills of collaboration. Students will use what they have learned to tackle challenges such as app development and simulation.

### **T831—Engineering Essentials (STEM Pathway) (Grades 9-12)**

Engineers don't sit back and watch—they make things happen. They use models provided by science combined with innovative thinking to solve problems and create new designs that benefit humanity. Engineering Essentials is a foundational survey course in the diverse career opportunities associated with engineering. Whether the challenge be in design, construction, or maintenance, and the field be transportation, space, or the environment, engineers are the creative-thinkers and problem-solvers. This course introduces students to a variety of career connections by providing diverse examples of engineering professionals engaged in addressing engineering challenges—from increasing global equity through international relief efforts and discovering alternative energy solutions to planning sustainable cities and inventing new technologies to improve people's health.

# Elective Areas

## Art

All art students will learn the Elements and Principles of Design and be able to utilize them in their artwork. The students will have the opportunity to develop aesthetic judgments and to learn about our rich art heritage through art history, field trips, videos, powerpoint presentations, prints, and guest speakers. Art work is done in the classroom, but there will need to be home practice for advanced levels. Regular attendance and promptness is especially necessary if a student wishes to succeed.

### **T500 Foundations of Art CHURCHILL AND STEVENSON HIGH SCHOOLS ONLY**

This class is open to students of any experience level and is about having fun and trying a wide variety of materials and techniques. Those signing up should have curiosity and enthusiasm about art and not be afraid to try something new. Projects are based on the elements and principles of art and may include: drawing, painting, working with clay, printmaking, photography and weaving, o name a few!

### **T505—Drawing**

Drawing is a one-semester course which covers a variety of fundamental drawing techniques and medias. Students will be introduced to the proper skills needed to show value, mass, form, and depth to subjects. Portraiture, perspective, and other aspects of drawing “what you see” will be introduced. Drawing students will concentrate on incorporating the elements and principles of design (line, shape, form, color, balance, contrast, emphasis, etc.) along with developing their technical drawing skills through organized compositions. They will be encouraged to develop their own unique concepts and creativity throughout the lessons and exercises. Art history will be introduced.

### **T507—Advanced Drawing**

**Prerequisites: Drawing \*\*This course may be taken multiple times for credit.**

Students will further develop skills and concepts introduced in the beginning class, with an emphasis on expanded media proficiency. Students will sharpen observational skills, strengthen composition skills, and work on projects ranging from realistic, to imaginary to surrealistic. An emphasis will be placed on developing work for scholarship application and college admissions.

# Elective Areas- Visual and Performing Arts

## Art

### **T501—Painting CHURCHILL AND FRANKLIN HIGH SCHOOLS**

#### **Prerequisites: Drawing (preferred)**

Painting is a one-semester course which covers a variety of fundamental painting techniques and mediums involved in painting. Students will gain a working knowledge of color mixing and blending and color theory. Painting 1 students will concentrate on incorporating the elements and principles of design (line, shape, form, color, balance, contrast, emphasis, etc.) along with developing their technical painting skills through organized compositions. They will be encouraged to develop their own unique concepts and creativity throughout the lessons and exercises. Art history will be introduced.

### **T503—Advanced Painting FRANKLIN HIGH SCHOOL ONLY**

#### **Prerequisites: Painting \*\*This course may be taken multiple times for credit.**

Students will learn more advanced techniques, using primarily water-based paints. They will examine painting styles such as realism, abstraction, impressionism, and expressionism through study and discussion of art history. They will continue to develop personal expression and individual style. An emphasis will be placed on developing work for scholarship application and college admissions.

# Elective Areas- Visual and Performing Arts

## Art

### **T516—Sculpting/Clay CHURCHILL AND FRANKLIN HIGH SCHOOLS**

#### **Prerequisites: None**

This is a beginning course in exploring clay and other sculptural media. Techniques include hand construction methods for slab and coil building, wheel throwing, and sculpture. Firing and glazing techniques will be emphasized.

### **T518—Advanced Sculpting/Clay CHURCHILL AND FRANKLIN HIGH SCHOOLS**

#### **Prerequisites: Sculpting/Clay \*\*This course may be taken multiple times for credit.**

This course is a continuation of the construction skills learned in the beginning course. Students will learn more complex techniques that may include wheel throwing and various carving techniques. Students will be encouraged to develop and refine a personal style. There will be an emphasis on design, craftsmanship, originality, and surface decoration. Students will continue to develop their aesthetic judgment through group critique and the study of professional working artists.

### **T514 Ceramics STEVENSON HIGH SCHOOL ONLY**

**This class introduces students to building with clay with a focus on the hand building techniques; pinch, coil, and slab. Various glaze and decoration techniques for finishing work will be introduced. If students are willing to get their hands dirty, they will make and bring home a variety of functional objects such as mugs and bowls, as well as sculptural objects. Introduction to traditional and historical ceramic arts will also be incorporated into class.**

### **Advanced Ceramics - T515 STEVENSON HIGH SCHOOL ONLY**

#### **Prerequisites: Ceramics**

This class is a continuation of the construction skills learned in the beginning course. Students will develop and refine a personal style and learn more complex techniques including throwing on the pottery wheel, mold making, and carving. In addition, they will also design and make several self-directed projects.

# Elective Areas- Visual and Performing Arts

## Art

### **T538—Photography**

**Prerequisites: None**

**EACH STUDENT MUST HAVE HIS/HER OWN PICTURE TAKING CAMERA OR DEVICE.**

This course covers basic concepts and practices of digital photography and will address aesthetic principles as they relate to composition, space, exposure, light, and color. Technological aspects of digital imagery will be addressed, such as format and resolution. Basic digital manipulations of images using Adobe Photoshop software will be taught in preparation for creating a portfolio of images.

### **T540—Advanced Photography**

**Prerequisites: Photography \*\*This course may be taken multiple times for credit.**

**EACH STUDENT MUST HAVE HIS/HER OWN PICTURE-TAKING CAMERA OR DEVICE.**

This course is a continuation of basic concepts and skills covered in Beginning Photography. Emphasis will be placed upon student recognition and understanding of technical, aesthetic, and expressive concepts of photography. Students will be expected to demonstrate competency in digital photographic work flow and file organization. Students will present work and verbally discuss intent. Students may be asked to print images for school and/or district art exhibitions.

# Elective Areas- Visual and Performing Arts

## Art

### **T521 Jewelry (1 Semester) CHURCHILL AND STEVENSON HIGH SCHOOL ONLY**

#### **Prerequisites: Foundations of Art is recommended**

This course is a hands-on craft class that teaches the basic techniques necessary to create a wide range of jewelry. The elements and principles of design will be integrated in designing and creating original pieces in a variety of materials. The class will incorporate both traditional cold joining techniques as well as natural gas and acetylene soldering. Students who choose to use sterling silver, gems, or other precious materials when creating their jewelry may do so at their own expense.

### **T523 Advanced Jewelry (1 Semester) CHURCHILL AND STEVENSON HIGH SCHOOL ONLY**

#### **Prerequisites: Jewelry 1**

This course is a continuation of the construction skills learned in Jewelry I course. Students will learn more complex techniques including stone setting and lost wax casting. There will be an emphasis on design, craftsmanship, and originality. Those who choose to use sterling silver, gems, or other precious materials may do so at their own expense.

### **T547 Advanced Art Techniques - FRANKLIN AND STEVENSON HIGH SCHOOLS**

This course is designed for students who have taken multiple art courses and wish to explore their own medium/projects more independently. In this class, students will help choose the projects they want to create, the materials they want to use, and the amount of time that it will take to complete the project. Students will be expected to turn in a project proposal for each of their projects to be approved by the instructor. Therefore, students wishing to take this course must be self-motivated, creative, and ambitious. Students will be encouraged to experiment and develop innovative ideas which challenge their artistic abilities in the medium(s) of their choice and further develop their portfolio.

# Elective Areas- Visual and Performing Arts

## Art

### **1549/2549—Art Independent Study Program**

**Prerequisites: A student wishing to enroll in the Independent Study Program shall complete the Application from their Art Teacher**

#### Credit

A student will be permitted to earn a total of 1 credit for Independent Study in Art.

A student may enroll for only 1/2 credit at a time which must be earned within a period of one semester.

#### Evaluation

The student will be evaluated by three major criteria:

1. Amount of Time Devoted to Study
2. Achievement of Goals
3. Quality

The advisor and student will identify more specific criteria for each of these three areas.

The student and teacher will both complete an evaluation and designate whether the student should receive a “pass” or “fail” grade. The seminar will not be used in computing GPA; however, the student will receive credit for the study.

# Elective Areas- Visual and Performing Arts

## Music

### **Marching Band**

**Prerequisites: Auditions are required for Color Guard members and Percussionists.**

**After school and/or evening rehearsals and concerts are required.** Instrumentalists will be expected to perform on their primary instrument; students seeking to perform on a secondary instrument will need to demonstrate proficiency before gaining approval. Co-requisite: Band classes during the day are required (except for Color Guard). Please keep this requirement in mind when scheduling classes.

### **1731/2731—Jazz Band (Grades: 10, 11, 12)**

**Prerequisites: Admission by audition only. Open to students with at least four years experience on their instruments.**

**After school and/or evening rehearsals and concerts are required.**

The Jazz Band will study and increase basic techniques of jazz improvisation in a variety of jazz styles. Music history, music theory, and a wide range of musical styles will be explored and performed throughout the year. The Jazz Band performs frequently at both school and community functions. After school and/or evening rehearsals and concerts are required.

### **1732/2732—Concert Band (Grade: 9)**

**Prerequisites: The Concert Band is an ensemble open to all ninth-grade students with previous experience on band instruments. No audition is required. Tenth, eleventh, or twelfth-grade students seeking to perform on a secondary instrument will need to demonstrate proficiency before gaining approval.**

**After school and/or evening rehearsals and concerts are required.**

The Concert Band will perform music for concerts and other school and community events throughout the school year. The class will be devoted to increasing knowledge in musicianship, music history, theory, and prepare students to advance to Symphony Band. After school and/or evening rehearsals and concerts are required.

# Elective Areas- Visual and Performing Arts

## Music

### **1734/2734—Symphony Band**

**Prerequisites:** The Symphony Band is an ensemble of students with exceptional musical ability which is determined through a special audition given by the director.

**After school and/or evening rehearsals and concerts are required.** The Symphony Band will perform the best of the band literature at concerts, community events, and in contests throughout the school year. After school and/or evening rehearsals and concerts are required.

### **1738/2738—Freshman & Sophomore Orchestra**

**Prerequisites:** None. Open to all ninth and tenth grade students without an audition who have had previous experience on violin, viola, cello, or string bass.

**After school and/or evening rehearsals and concerts are required.**

The class is designed to prepare students for Symphony Orchestra by focusing on basic string techniques. After school and/or evening rehearsals and concerts are required.

Objective: To provide instrumental music students an opportunity to perform Baroque, Classical, Romantic, and Twentieth Century literature; develop the technical abilities of each student by focusing on finger patterns, shifting, vibrato, and all styles of bowing

### **1739/2739—Junior & Senior Orchestra**

**Prerequisites:** Eleventh and twelfth grade students who have had at least four years of experience on violin, viola, cello, or string bass. Strings perform as a full orchestra, string orchestra, and chamber strings.

**After school and/or evening rehearsals and concerts are required.**

The objective of the orchestra is to provide instrumental music students an opportunity to perform Baroque, Classical, Romantic, and Twentieth Century literature in its original form, develop a high degree of refinement in performance skills, and attain first-hand experience in the production of major works for orchestra.

# Elective Areas- Visual and Performing Arts

## Music

### **1741/2741—Choir (Grades: 9-12)**

**After school and/or evening rehearsals and concerts are required.**

Choir is a performing group offering training in musicianship, vocal production, sight singing, music theory, and music history. They perform frequently at in-school and out of school functions, choral festivals, and contests singing fine choral repertoire of both sacred and secular arrangements.

### **1744/2744—Cantando Chorale (Women’s Ensemble) (Grades: 9-12)**

**After school and/or evening rehearsals and concerts are required.**

The Cantando Chorale is a women’s ensemble offering training in musicianship, vocal production, sight singing, music theory, and music history. They perform in 2, 3 and 4 part harmony. Performances are at in-school functions, out-of-school functions, choral festivals, and concerts singing the finest SSA repertoire available. After-school and/or evening rehearsals and concerts are required.

### **1749/2749—Bel Canto Choir (Grades: 10-12 grade boys and 11-12 grade girls)**

**Prerequisites: All students must pass auditions in vocal technique and sight reading.**

**After school and/or evening rehearsals and concerts are required.**

The Bel Canto Choir is a selective performing organization offering advanced training in musicianship, voice production, sight singing, music theory, and music history. They perform frequently at in-school and community functions, choral festivals, and contests singing the finest chorale repertoire of both sacred and secular arrangements. After-school and/or evening rehearsals and concerts are required.

# Elective Areas- Visual and Performing Arts

## Music

### **T889 Guitar (1 semester) (Grades: 9-12)**

This one-semester course covers the basics of the instrument and the application of essential music fundamentals. Students will learn the basics of playing guitar at a beginning level through studying music notation, chord symbols, and peer modeling. A brief history of the guitar along with a study of its respective musical styles will also be covered in this course. The main objective of this course is to create an enhanced appreciation for music through playing the guitar. Students will learn how to read music notation, chord symbols, and tablature. Students will also gain a better understanding of many different musical genres including classical, blues, jazz, rock, and pop music.

### **T890 Advanced Guitar (1 semester) (Grades: 9-12)**

This one-semester course covers the basics of the instrument and the application of essential music fundamentals. Students will learn the basics of playing guitar at a beginning level through studying music notation, chord symbols, and peer modeling. A brief history of the guitar along with a study of its respective musical styles will also be covered in this course. The main objective of this course is to create an enhanced appreciation for music through playing the guitar. Students will learn how to read music notation, chord symbols, and tablature. Students will also gain a better understanding of many different musical genres including classical, blues, jazz, rock, and pop music.

# Elective Areas-Business and Marketing

## **T550—Marketing I (Grades 9-12)**

### **Prerequisites: None**

Students will learn the language of marketing and distribution and the importance of developing social skills for business jobs. Topics of study will be: private enterprise system, consumer economics, world channels of distribution, purpose of marketing, types of marketing enterprises, careers in marketing and distribution, promotion and pricing, human relations skills, and how technology affects business operations. Case problems as well as current newspaper/magazine articles dealing with marketing topics are utilized along with guest speakers in the field and virtual business software. Recommended for students pursuing marketing studies, business employment, and work experience.

*Course has been approved for (.5) senior related math credit and (.5) visual performing arts credit, per semester.*

## **T551—Marketing II- Small Business Management and Entrepreneurship (Grades 9-12)**

### **Prerequisites: None**

Entrepreneurship is a course designed to start students thinking like the owner or manager of a business. Owners recognize that a person's level of success is only limited by his/her imagination and hard work. As the business owner, students will explore the impact of the economy on their business. Legal requirements, physical layout, operating and staffing needs, promotion, social and ethical responsibilities, and applications of technology will be studied. Ultimately, the goal of entrepreneurship is to educate each student regarding all aspects of starting a business. This knowledge will assist the student in writing a business plan, which could be used to start a business. Recommended for students pursuing marketing studies, business employment and work experience.

*Course has been approved for (.5) senior related math credit and (.5) visual performing arts credit, per semester.*

# Elective Areas- Business and Marketing

## **1552/2552—Sports and Entertainment Marketing (Grades: 10-12)**

### **Prerequisites: None**

Sports and Entertainment Marketing takes students on a step-by-step journey through the world of marketing. Students encounter and learn about the key functions of marketing and how those functions are applied to sports and entertainment. The purpose of this course is to provide students with the fundamental principles and concepts identified with sports and entertainment marketing, and to develop critical thinking and decision-making skills through the application of marketing principles in these industries. Successful completion of this course will help students develop a knowledge of the career possibilities in the sports and entertainment industries as they relate to a diverse population and global society, and develop the knowledge that is required to produce an actual sports and entertainment event.

***Course has been approved for (.5) senior related math credit and (.5) visual performing arts credit, per semester, 2nd year World Language and 3rd year Science per semester.***

## **1555/2555—Marketing III (Grades: 11-12)**

### **Prerequisites: Marketing I & Marketing II, or Sports & Entertainment Marketing, or consent of instructor.**

This is a one-year course that puts theory into real-life business situations. Practical experiences are gained by the operation and management of the school store. Students gain hands-on experience with technology as they perform retail operations. Students will have experience in the following areas of retail operations: salesmanship, buying and pricing, cashiering, record keeping, display and sales promotion, merchandising, inventory, customer relations, marketing mathematics, entrepreneurship, human relations, decision making, budgeting, and scheduling. Business ethics and employability skills are an integral part of the course. Through coursework, field trips, and guest speakers, students will gain confidence and the opportunity to achieve marketable skills. In addition, students will take part in DECA, a national marketing student organization.

***Course has been approved for (.5) senior related math credit and (.5) visual performing arts credit, per semester, 2nd year World Language and 3rd year Science per semester.***

# Elective Areas- Business and Marketing

## **1556/2556—Marketing IV (Grades 11- 12)**

**Prerequisites:** Marketing I, II and III.

This is a one-year course that puts theory into real-life business situations. Practical experiences are gained by the operation and management of the school store. Students gain hands-on experience with technology as they perform retail operations.

*Course has been approved for (.5) senior related math credit and (.5) visual performing arts credit, per semester, 2nd year World Language and 3rd year Science per semester.*

## **T575—Managing Your Money**

**Prerequisites:** None

This course, which is recommended for all students, introduces students to the practical areas of finance. Computer software will be used to enhance skills in applicable areas.

Course topics include:

- Budgeting personal finances, Developing banking skills, Using credit options,
- Understanding investment options, Interpreting financial news
- Investigating car expenses
- Maintaining personal tax records
- Developing job search and interview skills

*Course has been approved for (.5) senior related math credit and (.5) visual performing arts credit, per semester.*

## **T571 Small Business Accounting (Grade 9-12)**

The course is highly desirable for those expecting to be a part of the global business world (i.e. accountant, administrative assistant, entrepreneur, and computer specialist). A college-bound student planning to major in any phase of business will be required to take several accounting courses.

The students will learn to analyze and record daily transactions of small businesses using journals and computer software formats. Other processes covered are the correct procedures both manually and electronically for posting, preparing worksheets, and financial statements, and adjusting and closing ledger accounts for proprietorships and partnerships. The final experience in Small Business Accounting is a business simulation in which the student keeps a set of books for a small business for a one-month period. Students will also be trained to use the personal computer with windows/ network, color monitor, and laser printers.

*Course has been approved for (.5) senior related math credit and (.5) visual performing arts credit, per semester.*

# Elective Areas- Business and Marketing

## **T590 Business Technology Management (Grades: 9-12)**

Business Technology Management is taught on PC's using Windows operating system and Microsoft Office. Students will develop business management skills using the following technology: Internet, Word, Powerpoint, Excel, Access, Windows Movie Maker, and online tools such as Google Drive, Prezi, Cloud Computing, etc. This class is designed to teach students how to function in everyday life, advanced academic settings, and especially in the business management environment. career and professional development, business practice, communications, and employability skills are integrated into the course. Coursework is completed in class.

***Course has been approved for (.5) senior related math credit and (.5) visual performing arts credit, per semester.***

## **T591 Adv Business Technology Management (Grades: 9-12)**

Advanced Business Technology Management is a project-based class that focuses on integrating business management and technology. Students will use technology to apply management concepts. Students will use advanced features of Microsoft Office (Word, Excel, Access, Power- Point), Google applications, Google Drive, Google Documents, and other online tools. Business concepts covered using technology include: international business, business planning, leadership, Law and ethics, and project management. This class is taught in a computer lab. Coursework is completed in class.

***Course has been approved for (.5) senior related math credit and (.5) visual performing arts credit, per semester.***

## **T592 Social Media Business Management (Grades: 10-12)**

Social Media Management is a project-based class that teaches students how to use social media to help businesses connect with customers. Students will learn various social media platforms such as Facebook, Twitter, Instagram, Vine, Pinterest, You Tube, LinkedIn, blogging, and web page optimization. Students will learn the proper etiquette and technique expected when social media is used in the business world. This class provides a broad introduction to technologies and management models used to successfully create and run an ECommerce Business. This class is taught in a computer lab. Coursework is completed in class.

## **T593 Project Design Management (Grades: 10-12)**

Project Design Management is a class designed to take a digital media approach to business. Students will learn graphic design as it relates to business using many different programs including Photoshop, Microsoft Office, Google Applications, web-based photo-editing, etc. Students will also learn various audio and video production techniques used in the business world today. This class is taught in a computer lab and is project-based. Coursework is completed in class.

# Elective Areas- Family and Consumer Science

## **T600—Child Development (Grades: 10, 11, 12)**

This class will explore family readiness, family planning, pregnancy, and childbirth. Students will focus on key concepts associated with effective parenting from conception to birth.

## **T601—Parenting (Grades 10, 11, 12)**

### **Prerequisites: Child Development**

Students will learn effective parenting skills for the infant through preschool age child. This class examines the progression of development in the physical, cognitive, social, and emotional development and identifies developmental milestones for children from the first year to age 6. Students will have opportunities to use computerized infant simulator.

## **1602/2602 Early Childhood Professional**

### **Prerequisite: Child Development or Parenting.**

This is course designed to meet individual interests in careers where knowledge of child growth development and firsthand experience with children are applied. Upon successful completion of the course, students are given a competency certificate which will assist them in obtaining employment. This class is an excellent opportunity for the student who is interested in pursuing a career that deals with children including, but not limited to, Elementary education, childcare worker, teacher aide, home daycare operator, community recreation worker, child advocate, and paraprofessional. Students are required to have FIA clearance prior to working with the preschool age children. No students with prior felony convictions or child related crimes will be admitted into the program. This course may be repeated for credit with instructor approval.

## **Pathways to Working with Children (Internship)      Stevenson Only (Grades 11-12)**

### **Prerequisites: Child Development or Parenting**

This is a one-year program designed to meet individual interests in careers where knowledge of child growth and development are important. Students have both class and lab experiences. Lab experiences occur within classrooms through the district (Early Childhood, Elementary and Middle Schools) students will gain a simulation experience of being employed in a child related field. The high school student will develop a portfolio, formulate observations of the growth and development of children, plan lessons, teach children and practice health and safety procedures. The course is recommended for students pursuing careers in teaching, childcare, nursing, psychology, recreation, etc. Upon completion, the student could receive their Child Development Associate Credential (CDA). These students must have their own transportation to and from their placement.

# Elective Areas- Family and Consumer Science

## **T610—Foods And Nutrition 1 (Grades: 9-12)**

**Prerequisites: None**

**Recommended course for students interested in Hospitality Management**

Students will learn nutritional guidelines for healthy living, kitchen safety and sanitation. This is an activity-based class where food preparation basics are taught and practiced. Labs will include gluten, dairy and eggs products.

**Course has been approved for (.5) Applied Art Credit**

## **T611—Foods And Nutrition 2 (Grades: 9-12)**

**Prerequisites: Foods and Nutrition 1**

Students will build on food preparations skills and concepts presented in Foods 1. Units of study will include kitchen safety and sanitation, meal planning, grocery shopping and nutrition. Labs will include gluten, dairy and eggs products.

**Course has been approved for (.5) Applied Art Credit**

## **T612—Foods And Nutrition 3 (STEVENSON HS ONLY) (Grades: 11-12)**

**Prerequisites: Foods and Nutrition 2**

This class expands on the nutritional information and skills learned in Foods 1 and 2. Units of study will include exploring culinary careers, international cuisine, entertaining and specialty desserts. Labs will include gluten, dairy and eggs products.

**Course has been approved for (.5) Applied Art Credit**

# Elective Areas- Family and Consumer Science

## **T617—Interior Design (Grades: 9-12)**

### **Prerequisites: None**

Interior Design will focus on how to apply the principles and elements of design to interior living spaces. An architectural history of housing and furniture will be studied. Emphasis is placed on the way a home can express the lifestyle of the family members.

***Course has been approved for (.5) visual performing arts credit, per semester***

## **T618—Adulting 101 (Grades 11- 12)**

**(Name change for Life Management at Stevenson and Franklin, Life Skills at Churchill)**

### **Prerequisites: None**

Students will develop personal survival skills that they will use when they move out on their own or go away to college. Selections will include information on interpersonal relationships, communication skills, money management, employment, career and college planning, consumer issues and living a healthy lifestyle.

## **Personal Living - STEVENSON ONLY (Grades 9-10)**

### **Prerequisites: None**

In the Personal Living course, importance is placed on the individual and his or her relationship with others. Students will learn to better understand themselves and to develop skills in effective communication and conflict resolution. Class lead discussions will focus on contemporary issues applying to teens and society. Students will be engaged in goal setting and developing plans for reaching those goals.

## **Creative Design - STEVENSON ONLY (Grades 9-12)**

### **Prerequisites: None**

This course is designed for students to discover the rewards and benefits of using personal creative skills. Students will be introduced to a variety of crafts that will appeal to individual needs and talents. The focus of this course will include hands-on projects such as paper crafts, thread and gimp projects, Cricut projects, crocheting, latch hook, tie dye, beading and so much more.

# Elective Areas- Industrial Technology

## **Automotive Technology**

### **T660—Small Engine Service (Grades: 9-12)**

#### **Prerequisites: None**

Students in this one-semester course will learn the fundamentals of small two-stroke-cycle and four-stroke-cycle gas powered engines. The course will include units of instruction in service, maintenance, and repair of small engines used on lawn mowers, snow blowers, power generators, chain saws, snowmobiles, and garden equipment. Proper use of tools, troubleshooting, precision measuring, and testing will be emphasized.

*Course has been approved for (.5) visual performing arts credit, per semester.*

### **T621 Intro to Auto Technology (Grades: 10-12) SHS Only**

#### **Prerequisite: Small Engine Service**

This is a one-semester course offered for one hour a day to students who may or may not be interested in specializing in automotive repair. Course content covers the terminology and operation of the basic components and system of the automobile. The engine, fuel system, brakes, etc., will be covered. Approximately 20% to 40% of the students' time will be spent working on various automotive components and learning the proper use of hand tools. The course is a prerequisite for all advanced automotive courses and will be required for all students intending to specialize in this area.

### **T622 Auto Repair and Maintenance (Grades: 10-12) SHS Only**

#### **Prerequisite: Intro to Auto**

Auto Repair & Maintenance is primarily a terminal course for students who do not plan to earn a living as a mechanic but would like to learn how to repair and properly maintain their own automobile. However, students electing Auto Repair and Maintenance may proceed to the technical program in those instances where additional automotive instruction is desired. Auto Repair and Maintenance is a course covering tune-up, general maintenance procedures, brakes, emission controls, and drive trains.

Approximately 50 percent of the student's time will be spent in lecture and study sessions and the remaining 50 percent will be spent working in a laboratory on live units.

### **0936/2936—Auto Technology 1 (Career Center)**

#### **Prerequisites: None**

### **0937/2937—Auto Technology 2 (Career Center)**

#### **Prerequisite: Successful completion of Automotive Technology 1**

# Elective Areas- Industrial Technology

## Construction Technology

### **T652—Intro to Woods (Grades 9-12)**

Introduction to Woods is a one-semester course with product-centered activities and an emphasis on understanding the following areas of instruction: shop safety, basic hand tool manipulation, machine operation, planning, measuring, finishing, minor home maintenance, and career and consumer knowledge.

*Course has been approved for (.5) visual performing arts credit, per semester.*

### **T653—Advanced Woods (Grades: 9-12)**

#### **Prerequisites: Intro to Woods**

Note: Students may take Advanced Woods for two or more semesters. Advanced Woods is an advanced course with additional concentration on those areas mentioned in Intro to Woods. Project selection will be more challenging with increased emphasis on individual planning and problem solving.

*Course has been approved for (.5) visual performing arts credit, per semester.*

### **0946/3946—Construction Trades 1 (Livonia Career Technical Center)**

### **0914/2914—Construction Trades 2 (Livonia Career Technical Center)**

# Elective Areas- Industrial Technology

## Engineering, Manufacturing & Industrial Technology

### **T634—Intro to Drafting/CAD (Grades: 9-12) FHS and SHS Only**

**Prerequisite: None.**

Introduction to Drafting/CAD is an exploratory course in mechanical drafting, architectural drafting, and CAD. Students will learn basic skills in reading and creating drawings that will be of benefit to the student in other industrial technology courses. *Course has been approved for (.5) visual performing arts credit, per semester.*

### **T636 Architectural Drafting/CAD (1 Semester) (Grades: 9-12) SHS Only**

Note: Students may take Architectural Drafting/CAD for two semesters. Architectural Drafting/CAD is a course for students interested in architecture, design, and/or construction technology. Course content includes scale reading, architectural drawing, dimensioning techniques, and CAD.

### **T638 Mechanical Drafting/CAD (1 Semester) (Grades: 9-12) SHS Only**

**Prerequisites: Intro to Drafting**

Note: Students may take Mechanical Drafting/CAD for two semesters. This course is for future designers and engineers. Course content includes mechanical drawing, dimensioning techniques, CAD, career opportunities, and educational technical programs.

**0942/2942—Engineering Design 1/CAD  
(Livonia Career Technical Center)**

**0944/2944—Engineering Design 2/CAD  
(Livonia Career Technical Center)**