



Chippewa Valley Schools
19120 Cass Avenue
Clinton Township, MI 48038

South Lake Schools

Automotive Technology

The goal of the South Lake Auto Technology Program is to provide students with the necessary entry-level skills to allow them entry into the automotive repair industry. Through articulation agreements, the Auto Technology Program encourages students to continue their education after completion of the program. The Auto Technology Program is a two year, two period per day block class, which meets five days per week. The curriculum is consistent with current industry standards, following the National Automotive Technicians Education Foundation (NATEF) standards. NATEF is the only sanctioned certification program approved by the State of Michigan Department of Education. The course curriculum consists of theory and service in four automotive repair areas. The four repair areas are: • Brakes • Electrical • Steering & Suspension • Engine Performance The class is on a rotational schedule, one year suspension, steering and electronics will be covered, the other year engine performance and brakes will be covered. The students may achieve NATEF certification in Brakes, Electrical, Engine Performance, and Steering & Suspension. Completion of the NATEF Program in Brakes, Electrical, Engine Performance, or Steering & Suspension will allow a student to earn college credits. Articulation agreements with Ferris State University and Macomb County Community College, award the student who has successfully completed the NATEF Program(s) with college credit.

AUTOMOTIVE BRAKES AND ENGINES A and B - Two hour block

This is a two-hour class, which provides a course in automotive theory in the areas of brakes and engine performance. As the year progresses, students will begin to inspect, repair, troubleshoot, and replace components on vehicles.

AUTOMOTIVE ELECTRONICS AND SUSPENSION A and B - Two hour block

This two-hour class, which provides a course in automotive theory in the areas of electronics, suspension, and steering. As the year progresses, students will begin to inspect, repair, troubleshoot, and replace components on vehicles.

MARKETING 1 and 2

Marketing 1: Marketing 1 is the first year of a project based online class that offers students a chance to learn about the functions of marketing as well as economics, selling, customer relations, promotion, distribution, basic business skills and interpersonal skills. See Southlakemarketing.weebly.com for the entire class curriculum.

Marketing 2: Marketing 2 is the second year of a project based online class that offers students a chance to learn about marketing information management, product planning, business management, finance, entrepreneurship, and marketing career development. Marketing 2 students have an opportunity to apply to run the school store. See Southlakemarketing.weebly.com for the entire class curriculum.

MARKETING LAB 1 and 2

Marketing Lab: Marketing students chosen to take marketing lab will work in the credit union. Students will utilize all the functions of marketing in the daily operation of the business including customer service, ordering, distribution, selling, promotion, cash handling and accounting.

HOSPITALITY & CULINARY ARTS 1A and 1B - Two hour block, year 1

The Hospitality and Culinary Arts course is a full year program offered in a two year sequence for juniors and seniors. This course is a great opportunity for students who have an interest in the culinary field. Students will be exposed to career options in restaurants, hotel operations, and many other food service facilities. This course is designed to prepare students for college courses in Culinary Arts and Hospitality and entry level positions in the food service industry. A student operated public restaurant offers “hands-on” work experience for students to learn food preparation, customer service, and restaurant techniques. Students will be enrolled in a two hour block class. Second year students may be enrolled for the advanced portion of this program. Students seeking externship placement in hospitality occupations are required to be in the course concurrently with their externship experience.

HOSPITALITY & CULINARY ARTS 2A and 2B - Two hour block, year 2

The Hospitality and Culinary Arts course is a full year program offered in a two year sequence for juniors and seniors. This course is a great opportunity for students who have an interest in the culinary field. Students will be exposed to career options in restaurants, hotel operations, and many other food service facilities. This course is designed to prepare students for college courses in Culinary Arts and Hospitality and entry level positions in the food service industry. A student operated public restaurant offers “hands-on” work experience for students to learn food preparation, customer service, and restaurant techniques. Students will be enrolled in a two hour block class. Second year students may be enrolled for the advanced portion of this program. Students seeking externship placement in hospitality occupations are required to be in the course concurrently with their externship experience.

Mechatronics I/II

This course merges the principles/disciplines of four areas of engineering: mechanical, electrical (electronics), fluid power (hydraulics or pneumatics), and computer technologies to control machine movements. The new term for this is “Mechatronics.” The students’ studies begin with courses in mechanics, sensors, basic electronics, pneumatics, control logic and robot programming and control. The student goes on to learn how to program a specific Programmable Logic Controller (PLC), and then writes and troubleshoots programs to control machines. Students are given tasks such as, Pick and Place Feeding, Gauging, Indexing, Sorting and Queuing, Servo Robot Assembly, Torquing, and Parts Storage. These tasks are integrated into an assembly line that produces a real product. The program provides the knowledge and skills for entry-level positions in automation-related jobs. Examples would be robot installation and maintenance, automation equipment installation, troubleshooting and maintenance, and PLC programming. Examples of industries using these skills are pharmaceuticals, food processing, beverage bottling, automated warehousing, oil production, packaging, electronics assembly, medical, and military.