**Automotive Maintenance 1**

**Instructor**

Mr. Michael Swartz

[mswartz@isd740.org](mailto:mswartz@isd740.org)

320-256-5160 ext. 4407

**Course description**

This introductory course is designed to provide basic automotive maintenance with additional information of transportation systems. Units of study will include safety, automotive systems, brakes, tires, engines, cooling systems, lubrication, fuel system, suspension, battery, electrical system, diagnostics and careers in the automotive and transportation industry. Upon completion, students will have a general concept of automotive maintenance and fundamental knowledge to pursue a career in the automotive industry. The course will consist of lab time, lecture and demonstrations.

**Standards**

STL 18 Transportation technologies, State and National Common Core Standards

Benchmarks

* relationships of transportation and other technologies
* transportation processes and efficiency
* positive and negative impacts of transportation systems

**Grade Levels:**

* 9-12

**Course Level:**

* Introductory

**Course Length:**

* 20 weeks

The following units will be covered in this course. It may not be in this particular order, as well the amount of time we spend on each topic.

**Unit 1: Safety/systems in your vehicle/introductory assessment**

**Unit 2: Tires/Brakes**

**Unit 3: Engines/ cooling system**

**Unit 4: Lubrication/fuel system/suspension/battery**

**Unit 5: Electrical system and diagnostics**

**Unit 6: Transportation research project**

**Unit 8: Careers**