

Race Car Technology (RCT)

RCT 110. Introduction to Racing. 2.0 Credits. Class-2.0. Clinical-0.0. Lab-0.0. Work-0.0

This course covers safe working practices for the shop and race track environments, various types of racing, race vehicles, and organizations that sponsor events. Topics include circle track racing, drag racing, road racing on asphalt and dirt, knowledge and personal motivation, and safety in the racing environment. Upon completion, students should demonstrate knowledge of the professional aspects of racing.

RCT 121. Race Car Metal Inert Gas Welding. 3.0 Credits. Class-1.0. Clinical-0.0. Lab-4.0. Work-0.0

This course introduces safety, proper setup, and operation of the gas metal arc welding process, also known as MIG welding. Topics include safety, equipment setup and minor repair, and operation of MIG welding equipment. Upon completion, students should be able to make industry-acceptable welds on flat plate, round, and box tubing made of mild carbon steel.

RCT 254. Racing Chassis Fabrication. 5.0 Credits. Class-2.0. Clinical-0.0. Lab-9.0. Work-0.0

This course covers racing chassis fabrication following either a professionally prepared blueprint or a personal design. Topics include cutting and fitting different types of tubing, and the proper use of specialized fabrication equipment necessary to build various race car components. Upon completion, students should be able to build a racing chassis with the correct geometric angles to racing industry standards.
Prerequisites: Take RCT 121

RCT 255. Racing Sheet Metal Fabrication. 2.0 Credits. Class-1.0. Clinical-0.0. Lab-3.0. Work-0.0

This course covers skills using various tools and equipment necessary to make interior and exterior sheet metal panels. Emphasis is placed on cutting, bending, and shaping sheet metal into the various parts necessary to build a race car. Upon completion, students should be able to fabricate, form, and fit various sheet metal components to racing industry standards.