

METAL FABRICATION (457)

457-345 - Metal Fabrication

Focuses on development of layout and fabrication skills through a sequence of exercises and a final project. Students use equipment including a CNC shear, CNC press brake and CNC cutting table.

(Prerequisites: Completion of or concurrent enrollment in 103-159 Computer Literacy - Microsoft Office; 442-331 Welding Print Reading; 442-357 Gas Metal Arc Welding 1 (GMAW 1); 804-360 Occupational Mathematics 1)

4 Credit hours

36 Lecture hours

108 Lab hours

457-346 - Advanced Fabrication Techniques

Enhances metal fabrication skills and techniques by developing fixtures, programming CNC press brakes and lasers, and finishing, while making a variety of projects. (Prerequisite: 457-345 Metal Fabrication)

4 Credit hours

36 Lecture hours

108 Lab hours

457-347 - Metallurgy for Welding

Provides instruction and information on the basic principles of metals. Explores the behavior of metals and the processes which affect them. Explores the most common metals used in industrial processes.

1 Credit hours

18 Lecture hours

18 Lab hours

457-348 - Metal Cutting and Forming Processes

Develops knowledge of plasma, laser and water jet cutting systems and forming processes. Safety and maintenance are emphasized as students practice cutting techniques on projects. (Prerequisite: Completion of or concurrent enrollment in 804-360 Occupational Mathematics 1)

3 Credit hours

36 Lecture hours

72 Lab hours