WELDING TECHNOLOGY (WELD)

WELD-700 Introduction to Welding Technology
3 Units (LBE 96-108, LEC 16-18)

This course is designed to provide students with a comprehensive foundation in welding technology. Students will learn fundamental principles and techniques of welding, emphasizing safety protocols, equipment operation, and hands-on practice.

Not transferable

WELD-701 Welding Symbol & Blueprint Applications
3 Units (LAB 96-108, LEC 16-18)

This course teaches basic techniques for interpreting and using engineering drawings or prints in the metal trades. It also introduces visualization of objects, sectional drawings, orthographic and isometric projections, welding symbols, scales, and practices used in blueprints for the metal trades.

Prerequisite: WELD-700 (with a grade of C or better).
Not transferable

WELD-702 Welding Level I
4 Units (LBE 96-108, LEC 32-36)

This course offers students an in-depth exploration of advanced welding techniques. Delving beyond the basics, participants will master the intricacies of shielded metal arc welding (SMAW), focusing on advanced principles, safety protocols, and the nuanced operation of welding equipment. Through a blend of theoretical understanding and hands-on practice, students will elevate their skills in the SMAW process, acquiring a robust foundation that extends beyond fundamental concepts.

Prerequisite: WELD-701 (with a grade of C or better).
Not transferable

WELD-703 Welding Level II
4 Units (LBE 96-108, LEC 32-36)

This course equips students with a comprehensive understanding of welding, focusing on welding metallurgy and the properties of various metals and alloys. Through hands-on training, students develop advanced proficiency in welding techniques, mastering complex welds and joint configurations. The curriculum covers a range of welding processes, including Gas Tungsten Arc Welding (GTAW), Flux-Cored Arc Welding (FCAW), and oxyfuel cutting. With an emphasis on practical skills and theoretical knowledge, students gain industry-relevant expertise to excel as welding professionals.

Prerequisite: WELD-702 (with a grade of C or better).
Not transferable