



STARK STATE COLLEGE

GENERAL SYLLABUS

Course Information

Course Name: Automated Welding and Fabrication
Course Number: AIT228

Required Materials

Textbook(s): None
Required Readings: None
Additional Materials: None

Course Outline/Calendar

The date of coverage and order of coverage may be modified based on the faculty member and events beyond the control of faculty members that interfere with class times and teaching.

Week	Chapter/Topic/Lab
1	Class introductions and paperwork
2	Blueprint review Hand tools review Weekly Quiz
3	Shear and Brake operation Weekly Quiz
4)	Oxyfuel cutting and beveling. Plasma table operation Weekly Quiz
5-6	Perform fillet weld Lab's flat (1F), horizontal (2F), vertical (3F), and overhead (4F) positions.
7-8	GMAW welder operation. Mid-Term
9	Components of a robotic welding cell. Weekly Quiz.
10	Dry run Lab.
11-12	Teach pendant operation Lab
13	Introduction to sensors and cameras. Weekly Quiz
14	Weld defects Weekly Quiz
15	Jigs and fixtures. Weekly Quiz
16	Final Lab Final Exam