



# STARK STATE COLLEGE

## GENERAL SYLLABUS

### Course Information

**Course Name:** Principles of Welding  
**Course Number:** MST127

### Required Materials

**Textbook(s):** Welding Principles and Practices Eighth Edition by: Larry Jeffus  
**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.

#### 16-Week Course Calendar

Week	Chapter/Topic/Lab
1	Class introduction and paperwork
2	Intro to Welding, Chapter 1, GMAW set up
3	Striking an Arc , Chapter 4, GMAW Flat
4	Safety in Welding, Chapter 2,GMAW vertical up
5	SMAW Set up and Operation, Chapter 3, GMAW Overhead weld
6	Flame Cutting, Chapter 7, Torch cutting
7	Flame Cutting, Chapter 30 & 31 ( Review 28 <sup>th</sup> ) FCAW set up
8	Mid-term
9	Shop Math and Welding Costs, Chapter 18, FLAW all positions
10	Reading Technical Drawings, Chapter 19, SMAW striking an arc and flat weld
11	Weld Joint Design, Chapter 20, SMAW T Joints
12	Fabrication Techniques, Chapter 21, SMAW vertical up
13	Welding Codes , Testing and Inspection, Chapter 22 &23, SMAW overhead
14	Welding Metallurgy 7, Weld Ability of Metals, Chapters 25 & 26, GTAW basics
15	Soldering and Brazing, Chapter 33, Review for Finals, Practice Weld for Finals
16	FINALS

## 8-Week Course Calendar

<b>Week</b>	<b>Chapter/Topic/Lab</b>
1 -2	Read Chapters 2,7,30 & 31, Test #1: Safety in Welding & Oxy-Acetylene Processes
3	Read Chapters 3,4 & 27 – Test #2: SMAW
4	Read Chapters 10 & 11, Test #3:GMAW
5	Read Chapters 12 & 13, Test #4:FCAW
6	Read Chapter 20, Test #5: Weld Joint Design & Welding Symbols
7	WeldingOnly in Lab Only
8	Final Exam