## MINNESOTA WEST COMMUNITY & TECHNICAL COLLEGE COURSE OUTLINE

DEPT. WELD	COURSE NUMBER: 1280
NUMBER OF CREDITS: 2	Lecture: 0 Lab: 2 OJT: 0
Course Title:	
Intermediate Shielded Metal Arc Welding	
Catalog Description:	
Intermediate Shielded Metal Arc Welding will hat overhead welding in accordance with American V types in various thicknesses are welding using varwelded.	Welding Society procedures. Common joint
Prerequisites or Necessary Entry Skills/	Knowledge.
None	Knowledge.
FULFILLS MN TRANSFER CURRICU applicable)  Goal 1: Communication: By meeting the follow Goal 2: Critical Thinking: By meeting the follow Goal 3: Natural Sciences: By meeting the follow Goal 4: Mathematics/Logical Reasoning: By me Goal 5: History and the Social and Behavioral Scompetencies:  Goal 6: The Humanities and Fine Arts: By meeting Goal 7: Human Diversity: By meeting the follow Goal 8: Global Perspective: By meeting the follow Goal 9: Ethical and Civic Responsibility: By meeting Goal 10: People and the Environment: By meeting Goal 10: People 20: Peo	ving competencies: wing competencies: wing competencies: weting the following competencies: ciences: By meeting the following ing the following competencies: wing competencies: cowing competencies: ceting the following competencies:
Topics to be Covered	
Safety and health of welders, use of personal prot	· ·
Shielded Metal Arc Welding equipment and accessories Set-up of Shielded Metal Arc Welding equipment on carbon steel	
Operate Shielded Metal Arc Welding equipment	
Demonstrate groove welds in all positions	Sir Caroon Steel
Inspection of tracks, root passes, intermediate lay	ers, and completed welds

Student Learning Outcomes	
Recognize and demonstrate weld shop safety and the use of personal protective equipment.	
Demonstrate safe and proper use of Shielded Metal Arc Welding equipment and components.	
Identify proper electrode selection.	
Evaluate and identify a weld bead's shape with different heat inputs.	
Describe stringer beads.	
Perform a square butt joint weld in all positions.	
Perform a groove weld in plate in all positions with or without backing.	
Is this course part of a transfer pathway: Yes □ No ☒ *If yes, please list the competencies below	

Revised Date: 3/29/2022