## 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 have overhead welding in accordance with American Welding in various thicknesses are welding using var welded.	Velding Society procedures. Common joint
Prerequisites or Necessary Entry Skills/I	Znowledge:
None	xnowledge.
Goal 1: Communication: By meeting the following Goal 2: Critical Thinking: By meeting the following Goal 3: Natural Sciences: By meeting the following Goal 4: Mathematics/Logical Reasoning: By meeting Goal 5: History and the Social and Behavioral Sciences:  Goal 6: The Humanities and Fine Arts: By meeting Goal 7: Human Diversity: By meeting the following Goal 8: Global Perspective: By meeting the following Goal 9: Ethical and Civic Responsibility: By meeting Goal 10: People and the Environment: By meeting Goal 10: People and Goal 1	ving competencies: ving competencies: eting the following competencies: etiences: By meeting the following  ing the following competencies: eting competencies: wing competencies: eting the following competencies:
Topics to be Covered	
Safety and health of welders, use of personal protes	· · · · · · · · · · · · · · · · · ·
Shielded Metal Arc Welding equipment and accessories Set-up of Shielded Metal Arc Welding equipment on carbon steel	
Operate Shielded Metal Arc Welding equipment of	
Demonstrate groove welds in all positions	
Inspection of tracks, root passes, intermediate layer	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