

**31-442-1 WELDING**  
**2024-25 REQUIRED COURSES**  
**NORTHWOOD TECHNICAL COLLEGE**  
**ASHLAND, NEW RICHMOND, RICE LAKE, SUPERIOR**



Name/ID \_\_\_\_\_

Date \_\_\_\_\_

CATALOG NUMBER	COURSE TITLE	HOURS PER WEEK	CREDITS	SHIELDED METAL ARC WELDING (SMAW) (30-442-4)	GAS METAL ARC WELDING (GMAW) (30-442-5)	FLUX CORED ARC WELDING (FCAW) (30-442-6)	GAS TUNGSTEN ARC WELDING (GTAW) (30-442-7)	WELDING/ MAINTENANCE AND FABRICATION (30-442-2)	WELDING TECHNICAL DIPLOMA (Financial Aid Eligible)
<b>FIRST TERM - FALL 2024</b>									
31442321	Print Reading - Welding Trades	4 hours per week	2 credits	SMAW	GMAW	FCAW	GTAW	Welding / Maintenance and Fabrication	Welding
31442370	Gas Metal Arc Welding 1	6 hours per week	3 credits		GMAW			Welding / Maintenance and Fabrication	Welding
31442373	Shielded Metal Arc Welding 1	6 hours per week	3 credits	SMAW				Welding / Maintenance and Fabrication	Welding
31442374	Shielded Metal Arc Welding 2 Coreq: 31442373 Shielded Metal Arc Welding 1	4 hours per week	2 credits					Welding / Maintenance and Fabrication	Welding
31442376	Oxyfuel and Arc Cutting Processes	4 hours per week	2 credits					Welding / Maintenance and Fabrication	Welding
31442379	Gas Tungsten Arc Welding 1	4 hours per week	2 credits				GTAW		Welding
32804303	Applied Math	4 hours per week	2 credits	SMAW	GMAW	FCAW	GTAW	Welding / Maintenance and Fabrication	Welding
	<b>FIRST TERM TOTAL</b>	32 hours per week		7 Credits SMAW	7 Credits GMAW	4 Credits FCAW	6 Credits GTAW	14 Credits Welding / Maintenance and Fabrication	16 Credits Welding

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<b>SECOND TERM - SPRING 2025</b>									
31442325	Welding Fabrication/Production (WBL) Prerequisite: 31442321 Print Reading - Welding Trades, 31442370 Gas Metal Arc Welding 1, 31442373 Shielded Metal Arc Welding 1, 31442374 Shielded Metal Arc Welding 2, 31442376 Oxyfuel and Arc Cutting Processes and Corequisite: 31442375 Shielded Metal Arc Welding 3	6 hours per week	3 credits						Welding
31442371	Gas Metal Arc Welding 2 Corequisite: 31442370 Gas Metal Arc Welding 1	4 hours per week	2 credits						Welding
31442372	Gas Metal Arc Welding 3 Corequisite: 31442371 Gas Metal Arc Welding 2	2 hours per week	1 credit						Welding
31442375	Shielded Metal Arc Welding 3 Corequisite: 31442374 Shielded Metal Arc Welding 2	4 hours per week	2 credits						Welding
31442377	Flux Cored Arc Welding 1	4 hours per week	2 credits			FCAW			Welding
31442378	Flux Cored Arc Welding 2 Corequisite: 31442377 Flux Cored Arc Welding 1	4 hours per week	2 credits						Welding
31442380	Gas Tungsten Arc Welding 2 Corequisite: 31442379 Gas Tungsten Arc Welding 1	4 hours per week	2 credits				GTAW		Welding
32801361	Applied Communications	4 hours per week	2 credits						Welding
	<b>SECOND TERM TOTAL</b>	32 hours per week				2 Credits FCAW	2 Credits GTAW		16 Credits Welding
	<b>TOTAL CREDITS</b>			<b>7 Credits</b> SMAW	<b>7 Credits</b> GMAW	<b>6 Credits</b> FCAW	<b>8 Credits</b> GTAW	<b>14 Credits</b> Welding / Maintenance and Fabrication	<b>32 Credits</b> Welding

All prerequisite/corequisite courses must be completed with a grade point of 2.0 or better. Revised 6/4/24

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*Please be advised that low enrollment class sections may be canceled. You will be contacted by Student Services with information on other class sections available in alternate formats.*

*GRADUATION REQUIREMENTS: Although your academic advisor can provide guidance, you are ultimately responsible for selecting courses that meet a program's graduation requirements. If you do not take courses in the recommended sequence above, it may delay your completion of graduation requirements. A program plan GPA of 2.0 in a 4.0 grade system is required to graduate.*

EARN CREDIT FOR WHAT YOU ALREADY KNOW:

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