

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)
FIRST TERM - FALL 2024									
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
	FIRST TERM TOTAL	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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SECOND TERM - SPRING 2025									
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
	SECOND TERM TOTAL	32 hours per week				2 Credits FCAW	2 Credits GTAW		16 Credits Welding
	TOTAL CREDITS			7 Credits SMAW	7 Credits GMAW	6 Credits FCAW	8 Credits GTAW	14 Credits Welding / Maintenance and Fabrication	32 Credits Welding

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The Welding program is funded with \$491,723 in WTCS Grant Funds.

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:
[Visit Credit for Prior Learning for more information](#)

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