Cowley College Degree Grid

Welding Technology is an associate degree or certificate program that combines practical, theoretical, and technical training in welding fabrication. Manual, semiautomatic, and automatic processes using oxy fuel and arc welding processes in SMAW, GMAW, GTAW, and plasma are covered. Advanced courses deal with application of welding codes to develop the expertise needed to understand specifications used in industry. Training is done on both structural and piping materials in mild steel, stainless and aluminum alloys. Program graduates typically find employment as welding technicians, robotic welding technicians, and technical sales reps. As such, they are responsible for one or more of the following: welding metal alloys; fabricating metals to specifications; troubleshooting faulty weldments; writing procedures; interpreting conventional and computer-aided prints; and selling and servicing equipment.

WELDING TECHNOLOGY (Vocational Certificate)

COURSE NUMBER	COURSE NAME	SEMESTER			
		1	2	3	4
TECHNICAL REQUIREMENTS					
WEL3613	SMAW (Shielded Metal Arc Welding/Structural)	3			
WEL3615	Basic Welding Processes	3			
WEL3632	Shielded Metal Arc Welding/Pipe	3			
INR3716	Technical Math	3			
WEL3620	Gas Welding Processes		3		
WEL3623	GTAW (Gas Tungsten Arc Welding/Structural)		3		
WEL3642	Gas Tungsten Arc Welding/Pipe		3		
INR3760	Industrial Materials		3		
WEL3622	GMAW (Gas Metal Arc Welding/Structural)			3	
WEL3633	Gas Metal Arc Welding/Pipe			3	
WEL3635	Arc Welding Processes			3	
INR3717	Blueprint Reading			3	
WEL3640	Advanced Welding Processes				3
WEL3644	Special Alloy Welding/Inspection				6
INR3713	Applied Economics				3
INR3718	OSHA 10	1			
TOTAL HOURS 49		**13**	**12**	**12**	**12**