

## Industrial Welding Technology (Associates in Applied Science)

This program is designed to provide the graduate with skills needed to enter employment in local industry as an entry-level Welding Supervisor for construction firms, agricultural enterprises, and heavy machine fabrication.

### Summer Session

WEL 102	Metal Preparation.....	1
WEL 111	Arc Welding – Basic 1.....	1.5
WEL 112	Arc Welding – Basic 2.....	1
WEL 130	Industrial Safety.....	<u>2</u>
<b>Semester Total</b>		<b>5.5</b>

### First Semester

		Sem. Hrs.
WEL 101	Fundamentals of Welding Theory .....	2
WEL 118	Gas Shielded Arc Welding-MIG 1 .....	1.5
WEL 119	Gas Shielded Arc Welding-MIG 2.....	1
WEL 114	Arc Welding Advanced 1.....	1
WEL 115	Arc Welding Advanced 2.....	1
MAT 101	Technical Mathematics 1	
	OR.....	3
	More Advanced Mathematics	
DRF 103	Introduction to Drafting .....	3
MTL 103	Manufacturing Processes.....	<u>2</u>
<b>Semester Total</b> .....		<b>14.5</b>

### Second Semester

WEL 128	Flux Cored Arc Welding.....	1
WEL 116	Gas Shielded Arc – TIG 1.....	1
WEL 117	Gas Shielded Arc – TIG 2.....	1
OMS 101	Labor-Management Relations.....	3
MET 100	Metallurgy Fundamentals .....	2
WEL 125	Welding Blueprints .....	2
ENG 101	Freshman Composition 1	
	OR.....	3
ENG 100	Composition for Employment	
MAT 102	Technical Mathematics 2.....	<u>3</u>
<b>Semester Total</b> .....		<b>16</b>

### Summer Session

TQM 101	Total Quality Management.....	2
WEL 109	Oxyacetylene Welding 1.....	1.5
CIS 105	Keyboarding & Computer Essentials.....	<u>3</u>
<b>Semester Total</b>		<b>6.5</b>

**Third Semester**

WEL	120	Gas Applications .....	1
WEL	121	Applications 1 .....	1
WEL	122	Applications 2.....	1
WEL	126	Weld Test Evaluations .....	1
PHY	110	Applied Physics.....	3
PSY	101	General Psychology	
		OR.....	3
PSY	151	Occupational Search & Development	
OMS	102	Supervision Fundamentals.....	3
		<b>Semester Total.....</b>	<b>13</b>

**Fourth Semester**

ELT	100	Electrical Fundamentals.....	3
MTL	101	Machine Tool Fundamentals.....	3
WEL	150	Robotic Applications in Welding.....	2
OMS	202	Production and Inventory Control.....	3
WEL	123	Work Experience.....	<u>1.5</u>
		<b>Semester Total.....</b>	<b>12.5</b>

**Total Program Requirement..... 68**