Welding

(AAS.WEL) Associate in Applied Science Degree

Manufacturing

You might also like:

Workforce Ready
- Advanced Automation & Control Technology – page 21
- CNC Operator – page 41
- CNC Programmer – page 42
- Computer-Aided Design – page 48
- Computer-Aided Drafting – page 49
- Computer Integrated Manufacturing Technology – page 45
- Electronic Control Technology – page 64
- Electronic Systems Specialist – page 66
- Industrial Maintenance – page 79
- Instrumentation & Control Technology – page 80
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- Programmable Logic Controllers – page 118
- Renewable Energy – page 121
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- Sustainable Energy – page 125
- Welding Technology – page 129

This program provides experiences which enable students to develop competencies necessary for employment in welding and other related occupations. Emphasis throughout the program is placed on developing skills in the following areas: safety, metal identification, oxy-acetylene welding, metal cutting processes, shielded metal arc welding, gas metal arc welding, gas tungsten arc welding (including stainless steel and aluminum), machining, fluid power, mechanical drives, and blueprint reading. Students will gain valuable hands-on experience as they complete a minimum of 375 clock hours of Supervised Occupational Experience at an industry location.

Program requirements may change over time. Specific degree/graduation requirements are determined by the students' degree audit.

FIRST YEAR

First Semester

			Hours
☐	TEC 048	Applied Shop Computations	3
☐	TEC 040	Blueprint Reading for Industry	2.5
☐	TEC 043	Industrial Safety	1
☐	TEC 070	Properties of Metals	2.5
☐	WEL 056	Metal Cutting and Fabrication *	2
☐	WEL 057	Welding Fundamentals	2.5
		SEMESTER TOTALS	**13.5**

Second Semester

☐	WEL 047	Shielded Metal Arc Welding I *	2
☐	WEL 048	Shielded Metal Arc Welding II *	3
☐	WEL 058	Gas Metal Arc Welding I *	2
☐	WEL 059	Gas Metal Arc Welding II *	3
☐	WEL 061	Gas Tungsten Arc Welding *	3
☐	MET 045	Mechanical Drive Systems	2
		SEMESTER TOTALS	**15**

Summer Term

☐	WEL 074	Supervised Occupational Experience	5
		SEMESTER TOTALS	**5**

SECOND YEAR

First Semester

			Hours
☐	WEL 055	Pipe Fitting & Welding *	3
☐	MTT 050	Introduction to Machining Procedures	3
☐	SOS 050	Human Relations	2
☐	IND 044	Fluid Power	3
☐	ENG 050	Writing for Industry	3
☐		Social Science Elective	3
		SEMESTER TOTALS	**17**

Second Semester

☐	WEL 060	Gas Metal Arc Welding III *	3
☐	WEL 053	Gas Tungsten Arc Welding/Aluminum * †††	4
☐	WEL 054	Gas Tungsten Arc Welding/ Stainless Steel * †††	2
☐	IND 062	Rigging and Hoisting †††	1
☐	SPE 111	Introduction to Speech Communication	3
☐	HED 178	Responding to Emergencies	2
		SEMESTER TOTALS	**15**

TOTAL PROGRAM HOURS **65.5**

* There are prerequisites, course requisites or minimum placement test scores for this course

††† Course only offered spring semester

NOTES:

Call Counseling Services: 217-234-5232
Email: counsel@lakeland.cc.il.us

Faculty Contact: John Gentry
Email: jgentry@lakeland.cc.il.us
Phone: 217-234-5065