



Welding Technology
Level 2 Advanced Certificate

Manufacturing, Logistics, & Transportation Pathway

AC Course Number	Required Course Titles	Credit Hours	Semesters Offered	Course Modalities
FIRST YEAR				
First Semester				
<input type="checkbox"/> WLDG 1428	Introduction to Shielded Metal Arc Welding	4	F, Sp	F2F
<input type="checkbox"/> DFTG 1325 or DFTG 1409	Blueprint Reading and Sketching or Basic Computer-Aided Drafting	3-4	F, Sp	F2F
<input type="checkbox"/> WLDG 1457	Intermediate Shielded Metal Arc Welding	4	F, Sp	F2F
<input type="checkbox"/> TECM 1301	Industrial Math	3	F,Sp	Hyb
Second Semester				
<input type="checkbox"/> WLDG 1337	Introduction to Welding Metallurgy	3	F, Sp	Int
<input type="checkbox"/> WLDG 2443	Advanced Shielded Metal Arc Welding (SMAW)	4	F, Sp	F2F
<input type="checkbox"/> WLDG 2432 or MCHN 1438 or HYDR 1409	Welding Automation or Basic Machine Shop I or Basic Fluid Power	4	F, Sp	F2F
<input type="checkbox"/> WLDG 2413	Intermediate Welding Using Multiple Processes	4	F, Sp	F2F
SECOND YEAR				
First Semester				
<input type="checkbox"/> WLDG 2355	Advanced Welding Metallurgy	3	F, Sp	Int
<input type="checkbox"/> WLDG 1435	Introduction to Pipe Welding	4	F, Sp	F2F
<input type="checkbox"/> WLDG 2406	Intermediate Pipe Welding	4	F, Sp	F2F
Second Semester				
<input type="checkbox"/> WLDG 2451	Advanced Gas Tungsten Arc Welding	4	F, Sp	F2F
<input type="checkbox"/> WLDG 2453	Advanced Pipe Welding	4	F, Sp	F2F
TOTAL CREDIT HOURS		48		

Semesters: Fall (F), Winter (W)Spring (Sp), Summer (Su)

Modalities: Face-to-face (F2F), Internet/online (Int), Hybrid (Hyb)

Transfer Opportunities

Transfer is possible to BAAS degree at most Universities.

Marketable Skills

- 1) Work well on a team
- 2) Define, explain and interpret technical information
- 3) Use critical thinking to identify strengths and weakness to determine solutions
- 4) Identify appropriate information sources
- 5) Use math to answer questions
- 6) Schedule/coordinate Operations
- 7) Use current technology to diagnose and solve problems
- 8) Use Troubleshooting to determine causes and decide what to do about it
- 9) Think on your feet

Career Opportunities and Salaries

Combo Welder - \$32.41/hour
Communications Systems Welder
Food & Drug Process Pipe Welder - \$25.50/hour
Pipeline Welder - \$50,000
Power Plant Industry Welder - \$25/hour
TIG Welder Pipe - \$46,800
TIG Welder Structural - \$18.36/hour

Technical Skills

Courses cover Stick welding on Structural steel, and Semi-Automatic welding with Wire for Structural Applications. Entry level Stick welding of V-Groove plate and Pipe. Advanced Pipe welding utilizing Stick, and TIG welding processes of Steel, Stainless Steel, and Aluminum.