

Engineering Physics – Welding Engineering Technology Option (BS)

Suggested Plan of Study: 1st year at SAU

2020-2021 Catalog

Fall – Semester 1		Spring - Semester 2	
GSTD 1002 Freshman Seminar	2	EN 2022 Welding Engineering* or WELD 1003 Welding Skills Development	2-3
ENGL 1113 Composition I	3	CSCI 2103/2101 Computer Science I/Lab	4
MATH 2124 Applied Calculus	4	CHEM 1013/1011 College Chemistry I/Lab	4
ETEC 2003 Applied Statics	3	ENGL 1123 Composition II	3
PHYS 2003/2001 College Physics I/Lab or PHYS 2203/2201 University Physics I/Lab	4	ENGR 1023/1021 Introduction to Engineering/Lab	4
ENGR 1213 Engineering Graphics	3		
Total Semester Hours	19	Total Semester Hours	17-18
Fall - Semester 3		Spring - Semester 4	
WA 1005 or WELD 1005 Welding Processes*	5	WA 2005 or WELD 2005 Pipe Welding II*	5
WA 1015 or WELD 1015 Structural Welding*	5	WA 2015 or WELD 2015 Hi Freq TIG & Pipeline Welding*	5
WA 1025 or WELD 1025 Pipe Welding I*	5	WA 2025 or WELD 2025 Welding Capstone*	5
Total Semester Hours	15	Total Semester Hours	15
Fall - Semester 5		Spring - Semester 6	
WELD 3023 Welding Metallurgy	3	ITEC 3803 Industrial Materials	3
ETEC 3033 Strength of Materials	3	WELD 3003 Computer Aided Weldment Design	3
ITEC 3503 Computational Methods	3	WELD 3043 Welding Automation and Robotics	3
Fine Arts/Humanities (ART 1103 or ART 2013, HUM 2003, ENGL 2213, ENGL 2223, MUS 2003 or MUS 2013, PHIL 2403, THEA 2003, or Foreign Language)	3	ETEC 3002 Applied Mechanics Lab	2
Fine Arts/Humanities (ART 1103 or ART 2013, HUM 2003, ENGL 2213, ENGL 2223, MUS 2003 or MUS 2013, PHIL 2403, or THEA 2003)	3	ETEC 3013 Applied Thermal Science	3
Total Semester Hours	15	Total Semester Hours	14
Fall - Semester 7		Spring - Semester 8	
ETEC 3003 Applied Fluid Mechanics	3	ENGL 3023 Technical Writing	3
**HIST 2013 or 2023 U.S. History I or II or PSCI 2003 American Government: National	3	Social Science choice (ECON 2103, FIN 2003, GEOG 2003, HIST 1003, HIST 1013, PSCI 2003, PSYC 2003, SOC 1003 or SOC 2003)	3
UL Elective (ETEC, ITEC, ENGR, or PHYS)	0-1	ITEC 3073 Economic Analysis for Technology	3
WELD 4883 Internship in Welding	3	ITEC 4123 Computer Aided Manufacturing	3
WELD 4893 Design Projects in Welding	3		
Total Semester Hours	12-13	Total Semester Hours	12

Total hours required for Major – 120

*Courses completed through Southern Arkansas University – Tech. Students may elect to complete the AAS through SAU-Tech and complete more general education hours before transferring to SAU. Students may transfer up to 68 hours from a two-year school. Please consult with an advisor.

**Note: Must have three hours of US history/government.