

Welding

Offered at MCC-Business & Technology

This program provides students with training to the standards of the American Welding Society curriculum, which prepares students for the AWS written certification tests, and for employment in the welding/fabrication industry. Students completing the two-year degree will acquire the skills required of managerial and technical training personnel, preparing them to move beyond entry-level jobs into other welding-related careers. Students completing welding certificates can return to school while employed and use course work already completed toward the two-year degree.

A.A.S. Welding Technology and Management	63-68 Credits
MIG Certificate	22-24 Credits
MIG/TIG Certificate	22-24 Credits
Welding Construction Certificate	22-24 Credits

A.A.S. Welding Technology and Management

204700 Revised 11/2018 (Fall 2019)

General Requirements	Credits	Semester Taken	Prerequisites
COLL 100 First Year Seminar	1		
ENGL 101 Composition and Reading I	3		ENGL 90 with a minimum grade of S or appropriate placement score
HIST 120 United States History to 1865 or HIST 121 United States History since 1865 or POLS 135 Introduction to Political Science or POLS 136 Introduction to U.S. National Politics or POLS 137 Introduction to State and Local Politics	3		
Choose one of the following Math options: Option 1: MATH 103 Technical Mathematics I or MATH 120 College Algebra and MATH 104 Technical Mathematics II or MATH 130 Trigonometry Option 2: MATH 150 PreCalculus or higher	5-6		MATH 31 with a grade of S or appropriate placement (MATH 104) MATH 95 with a grade of C or higher or appropriate placement (MATH 120) MATH 120 with a grade of C or higher or appropriate placement score (MATH 130)
SPAN 100 Beginning Occupational Spanish	3		
COMM 100 Fundamentals of Speech	3		ENGL 90 with a grade of S or appropriate placement score
General Education Electives: Any course(s) numbered 100 or above from the following disciplines: ART, ECON, ENGL, Foreign Language, GEOG (except 104, 110 and GIS Courses), PHIL, PSYC, SOSC	3-5		
Minimum Total General Education Credit Hours	20		
Specific Program Requirements			
CSIS 100 Digital Literacy	2		
EHSS 111 Introduction to Health & Safety for General Industry or EHSS 112 Introduction to Health & Safety for Construction	1		
WELD 110 Welding Industry Fundamentals	3		
WELD 120 Thermal Cutting Processes Lecture	1		WELD 110 or concurrent enrollment
WELD 121 Thermal Cutting Processes Lab	2		WELD 120 or concurrent enrollment
WELD 130 Print Reading & Weld Symbols	3		
WELD 140 Shielded Metal Arc Welding I (stick) Lecture	1		WELD 121 or concurrent enrollment
WELD 141 Shielded Metal Arc Welding I (stick) Lab	2		WELD 140 or concurrent enrollment
WELD 150 Gas Metal Arc Welding I (MIG)(stick) Lecture	1		WELD 121 or concurrent enrollment
WELD 151 Gas Metal Arc Welding I (MIG)(stick) Lab	2		WELD 150 or concurrent enrollment
WELD 160 Gas Tungsten Arc Welding I (TIG) Lecture	1		WELD 121 or concurrent enrollment
WELD 161 Gas Tungsten Arc Welding I (TIG) Lab	2		WELD 160 or concurrent enrollment
WELD 230 Layout and Fabrication Lecture	1		WELD 130 and one WELD 100 level lecture & lab
WELD 231 Layout and Fabrication Lab	2		WELD 230 and one WELD 100 level lecture & lab
WELD 240 Shielded Metal Arc Welding II (stick) Lecture	1		WELD 141
WELD 241 Shielded Metal Arc Welding II (stick) Lab	2		WELD 240
WELD 250 Gas Metal Arc Welding II (MIG) Lecture	1		WELD 151
WELD 251 Gas Metal Arc Welding II (MIG) Lab	2		WELD 250
WELD 260 Gas Tungsten Arc Welding II (TIG) Lecture	1		WELD 161
WELD 261 Gas Tungsten Arc Welding II (TIG) Lab	2		WELD 260
WELD 270 Flux Core Arc Welding Lecture	1		WELD 151 or concurrent enrollment
WELD 271 Flux Core Arc Welding Lab	2		WELD 270 or concurrent enrollment
WELD 290 Management Skills for the Trades	3		WELD 231 and one WELD 100 level lecture & lab
Electives: BSAD, ETEC 152, ETEC 169, CIMM 100 or CIMM 130	3-5		
Total Credit Hours Required	63-68		