

Welding Technology Machine Tool Option



Semester Outline

18 Months Credits Required for Graduation: 72
Associate of Applied Science (A.A.S.) Degree)

2010 – 2011 Revised: 6/10

First Year – Fall Semester

Course Number	Course Title	Clock Hours	Credits
WLD 105	Oxyacetylene Safety	28	1
WLD 110	Proper Use of the Cutting Torch	14	.5
WLD 111	Shop Orientation Maintenance and Safety	28	1
WLD 112	Oxy-Fuel Welding Cutting	56	2
WLD 113	Shielded Metal Arc Welding	42	1.5
WLD 122	Gas Metal Arc Welding I	126	4.5
WLD 125	Position Welding	168	6
AED 100	Automated External Defibrillator	14	.5
CSC 100	Computer Concepts	21	1
Total		497	18

First Year – Spring Semester

Course Number	Course Title	Clock Hours	Credits
WLD 114	Ferrous Metallurgy	14	.5
WLD 123	Blueprint Reading	28	1
WLD 135	Gas Metal Arc Welding II	98	3.5
WLD 140	Flux-Cored Arc Welding	140	5
WLD 151	Shop Math	70	2.5
WLD 161	Gas Tungsten Arc Welding	126	4
WLD 165	Air Carbon Arc Gouging	7	.25
AC 100	Applied Communications	7	.25
PSYC 111	Applied Psychology	28	1
Total		518	18

Second Year – Fall Semester

Course Number	Course Title	Clock Hours	Credits
MTT 101	Machine Tool Theory I	28	1
MTT 110	Precision Measuring	28	1
MTT 118	Turning/Milling Theory	28	1
MTT 128	Lathe and Mill Operations	126	4
MTT 134	Machine Tool Lab	28	1
MTT 167	Introduction to Computer Numerical Control (CNC)	28	1
• BUS 101	Introduction to Business	48	3
• BUS 120	Principles of Marketing	48	3
CIS 102	Windows Applications for Technicians	48	3
Total		410	18

Second Year – Spring Semester

Course Number	Course Title	Clock Hours	Credits
WLD 200	Pipe Welding I	84	3
WLD 205	Pipe Welding II	84	3
	or Machine Tool Electives	168	6
••	Selected Behavioral Science Course	48	3
••	Selected Communications Course	48	3
••	Selected Mathematics Course	48	3
••	Selected Social Science Course	48	3
Total		360	18

- A student may choose other Business electives at the discretion of the Director of Enrollment.
- Students will select a course in each of the areas listed to meet general education requirements. Courses marked with an asterisk can be transferred directly to the university system under the terms of articulation agreements and may be substituted for recommended courses on the outline. Students should speak with an advisor before doing so.

Behavioral Science

[PSYC 100](#) – Psychology of Human Relations
[PSYC 101](#) – General Psychology *

Communications

[COMM 101](#) – Contemporary Communication
[ENGL 101](#) – Composition *
[SPCM 101](#) – Fundamentals of Speech *

Mathematics

[MATH 100](#) – Applied General Math
[MATH 101](#) – Intermediate Algebra
[MATH 102](#) – College Algebra *