

# Welding Technology

## Semester Course Outline • 2022 – 2023

18 Months (4 Semesters) • Revised: 3/16/22

Associate of Applied Science (A.A.S.) Degree • Credits Required for Graduation: 71.5

\* Optional exit point for Diploma • 9 Months (2 Semesters) • Credits Required: 34.5



### 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 113	Shielded Metal Arc Welding I	42	1.5
WLD 114	Ferrous Metallurgy	14	.5
WLD 115	Shielded Metal Arc Welding II	105	3.75
WLD 120	Metal Fabrication	28	1
WLD 123	Blueprint Reading	28	1
WLD 161	Gas Tungsten Arc Welding	84	3
AED 100	Automated External Defibrillator	14	.5
CSC 102	Windows Application for Technicians	45	3
<b>Total</b>		430	16.75

### First Year – Spring Semester

Course Number	Course Title	Clock Hours	Credits
WLD 140	Flux-Cored Arc Welding	28	1
WLD 141	Gas Metal Arc Welding A	42	1.5
WLD 143	Gas Metal Arc Welding B	84	3
WLD 145	Gas Metal Arch Welding C	84	3
WLD 147	Gas Metal Arch Welding D	119	4.25
WLD 151	Shop Math	56	2
<ul style="list-style-type: none"> <li>• Selected Communications Course (Choose one)</li> <li>    CMST 101 – Fundamentals of Speech * (CSS 100 – Career Search Strategies .5 credit)</li> <li>    COMM 101 – Communications and Career Strategies</li> <li>    ENGL 101 – Composition * (CSS 100 – Career Search Strategies .5 credit)</li> </ul>		45	3
<b>Total</b>		458	17.75

**Elective Course:** With the instructor's approval, SCT 100 – Solar Car Team may be substituted for up to 6 credits of course work or taken as an additional elective.

\* **Exit point for Diploma Option:** An exit point is intended for those students who do not pursue the Associate of Applied Science (A.A.S.) Degree. These students will receive a diploma.

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### Semester Course Outline • 2022 – 2023

#### Second Year – Fall Semester

Course Number	Course Title	Clock Hours	Credits
WLD 200	Custom Welding Applications I	140	5
WLD 203	Advanced Arc Welding Technologies I	84	3
WLD 206	Advanced Arc Welding Technologies II	56	2
WLD 212	Welding Capstone Project I	84	3
WLD 214	Robotic Programming and Welding	28	1
● Selected Mathematics Course (Choose one) MATH 100 – Applied General Math MATH 101 – Intermediate Algebra MATH 114 – College Algebra *		45	3
● Selected Social Science Course (Choose one) ECON 105 – Leadership in the Global Workplace ECON 201 – Principles of Microeconomics I * ECON 202 – Principles of Macroeconomics II * SOC 100 – Introduction to Sociology *		45	3
<b>Total</b>		482	20

#### Second Year – Spring Semester

Course Number	Course Title	Clock Hours	Credits
WLD 207	Advanced Arc Welding Technologies III	140	5.5
WLD 210	Custom Welding Applications II	140	5
WLD 215	Welding Capstone Project II	84	3
WLD 217	Advanced Robotic Programming and Welding	14	.5
PSYC 100	Psychology of Human Relations	45	3
<b>Total</b>		437	17

**Elective Course:** With the instructor's approval, SCT 100 – Solar Car Team may be substituted for up to 6 credits of course work or taken as an additional elective.

- 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 and may be substituted for recommended courses on the outline. Students should speak with an advisor before doing so.

Students who select to take transferable communications course CMST 101 or ENGL 101, must also register for CSS 100 – Career Search Strategies for .5 credit. This curriculum is required for all Lake Area Tech graduates and is included in the COMM 101 course but is separate from the university system.