



# Welding and Fabrication A.A.S. (A380)

## Program Course Requirements

### 2019-2020

Revised 2/20/2019

**Student Name** \_\_\_\_\_ **Student ID#** \_\_\_\_\_

### Required Core Courses

Course #	Title	Credits	Lec Hrs	Lab Hrs
CCST 1530	Employment Strategies	3	3	0
WELD 1100	Introduction to Welding	2	1	2
WELD 1101	Shielded Metal ARC Welding I	2	0	4
WELD 1102*	Shielded Metal ARC Welding II	3	1	4
WELD 1111	Blueprint Reading I	2	2	0
WELD 1112*	Blueprint Reading II (Welding Symbols)	2	2	0
WELD 1113*	Blueprint Reading III (CAD Systems)	2	2	0
WELD 1115	Gas Tungsten ARC Welding I	2	0	4
WELD 1116*	Gas Tungsten ARC Welding II	3	1	4
WELD 1117	Gas Metal ARC Welding I	2	0	4
WELD 1118*	Gas Metal ARC Welding II	3	1	4
WELD 1120*	Fabrication Design and Construction	4	1	6
WELD 1134*	Welding Qualification	3	1	4
WELD 1140	Welding Trade Knowledge	4	3	2
WELD 1150*	Advanced Metal Fabrication/CNC Automation	4	1	6
WELD 1160	Welding Theory	4	4	0

**Total Required Core Credits** **45**

### Required General Education Courses

An associate in applied science degree requires a minimum of 15 general education credits selected from <b>at least three of the ten goal areas</b> of the Minnesota Transfer Curriculum (MnTC).				
Course #	Title	Credits	Lec Hrs	Lab Hrs

**Total Required General Education Credits** **15**

## GRADUATION REQUIREMENT 60

*\*Denotes Prerequisite*

**In addition to the program requirements listed above, students must meet the following conditions in order to graduate:**

1. College Cumulative GPA Requirement: Cumulative grade point average (GPA) of credits attempted and completed at CLC must be at least 2.0;
2. College Technical Core GPA Requirement: Cumulative GPA of credits attempted and completed towards the technical core of the diploma or degree must be at least 2.0;
3. Residency Requirement: students must complete 25% of their credits at Central Lakes College.

**Fall Semester – 1<sup>st</sup> Year**

Course			Title	Credits	Lec Hrs	Lab Hrs
WELD	1100		Introduction to Welding	2	1	2
WELD	1101		Shielded Metal ARC Welding I	2	0	4
WELD	1111		Blueprint Reading I	2	2	0
WELD	1115		Gas Tungsten ARC Welding I	2	0	4
WELD	1117		Gas Metal ARC Welding I	2	0	4
WELD	1140		Welding Trade Knowledge	4	3	2
WELD	1160		Welding Theory	4	4	0

**Total Fall Semester – 1<sup>st</sup> Year 18**

**Spring Semester – 1<sup>st</sup> Year**

Course			Title	Credits	Lec Hrs	Lab Hrs
CCST	1530		Employment Strategies	3	3	0
WELD	1102*		Shielded Metal ARC Welding II	3	1	4
WELD	1112*		Blueprint Reading II (Welding Symbols)	2	2	0
WELD	1116*		Gas Tungsten ARC Welding II	3	1	4
WELD	1118*		Gas Metal ARC Welding II	3	1	4
WELD	1150*		Advanced Metal Fabrication/CNC Automation	4	1	6

**Total Spring Semester – 1<sup>st</sup> Year 18**

**Summer Semester – 1<sup>st</sup> Year**

Course			Title	Credits	Lec Hrs	Lab Hrs
WELD	1113*		Blueprint Reading III (CAD Systems)	2	2	0
WELD	1120*		Fabrication Design and Construction	4	1	6
WELD	1134*		Welding Qualification	3	1	4

**Total Summer Semester – 2<sup>nd</sup> Year 9**

**Fall Semester – 2<sup>nd</sup> Year**

Course			Title	Credits	Lec Hrs	Lab Hrs
			General Education	15		

**Total Fall Semester – 2<sup>nd</sup> Year 15**

**GRADUATION REQUIREMENT 60**

\*Denotes Prerequisite