


# ACADEMIC MAP

Welding, C.A.S

## Semester 1

COURSE	CR	COMMENTS
COLL 101 ORIENTATION TO COLLEGE	1	
MTEC 102 INTRODUCTORY CRAFT SKILLS	2	 NCCER Core
WELD 111 BASIC OXYACETYLENE WELDING	3	
WELD 171 WELDING THEORY	1	
WELD 160 WELDING BLUEPRINT READING	2	
MATH 125 TECHNICAL MATHEMATICS	4	
ENGL 107 TECHNICAL WRITING	3	
<b>TOTAL:</b>	<b>16</b>	






The **Certificate of Applied Science in Welding** prepares graduates for positions in construction and oil and gas. Some of the skills learned will include hand-welding, flame cutting, hand-soldering, and brazing equipment to weld or join metal components or to fill holes, indentations, or seams of fabricated metal products.



**MILESTONE COURSE:** These courses are the keys to graduation and certification. Courses should be taken in the recommended semesters to stay on time for

completion.

## Semester 2

COURSE	CR	COMMENTS
WELD 121 BASIC SHIELDED METAL ARC(SMAW)	3	 AWS Certificate
WELD 131 BASIC GAS TUNGSTEN ARC (GTAW)	3	 AWS Certificate
WELD 133 BASIC FLUX CORE ARC WELD(FCAW)	3	 AWS Certificate
WELD 134 BASIC GAS METAL ARC WELD(GMAW)	3	 AWS Certificate
WELD 279 WELDING INSPECTION	2	
<b>TOTAL:</b>	<b>14</b>	



**CAREER PLANNING:** Plant maintenance jobs, pipeline welders, field and shop welders, mobile welders, and pipe fitters in local fabrication shops make an average wage of \$12.90 - \$27.33/hour.



Students should average 15 credit hours per semester, or 30 per year, to graduate on time.

**TOTAL DEGREE CREDITS:**

# 30

# Foundational Learning Courses (FLCs):

To ensure breadth and depth as students meet these broad education goals, the curriculum focuses on six academic “strands.”

<b>Aesthetics, Creativity, and Appreciation</b>	<b>Human Communication and Interaction</b>	<b>People and Their Worlds</b>	<b>Quantitative Reasoning</b>	<b>Scientific Inquiry</b>	<b>Writing and Rhetoric</b>
ART-101	COMM-105	ECON-201	MATH-120	ASTR-106 BIOL-101	ENGL-101
ART-111	COMM-111	ECON-202	MATH-125	BIOL-102	ENGL-102
ENGL-131	COMM-112	GEOG-102	MATH-126	BIOL-103	ENGL-107
ENGL-132	COMM-202	HIST-101	MATH-211	BIOL-104	
ENGL-221		HIST-102		BIOL-107	
ENGL-222		HIST-152		BIOL-108	
ENGL-241		HIST-153		BIOL-109	
ENGL-242		HIST-250		BIOL-115	
ENGL-257		PHIL-111		BIOL-117	
ENGL-261		PHIL-150		BIOL-171	
ENGL-262		PHIL-231		CHEM-111	
ENGL-285		POLS-101		CHEM-115	
MUSI-170		POLS-102		CHEM-116	
THEA-101		PSYC-101		GEOL-101	
		PSYC-241		GEOL-102	
		SOC-101		GEOL-103	
		SOC-107		GEOL-104	
		SOC-221		GEOL-105	
				PSCI-101	
				PSCI-111	
				PSCI-112	
				PHYS-101	
				PHYS-102	
				PHYS-111	