


ACADEMIC MAP

Welding, A.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	
TOTAL:	16	






The **Associate 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	
TOTAL:	14	



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



CAPSTONE COURSE:

The capstone is a semester-long project that must be taken in the graduation semester.

Semester 3

COURSE	CR	COMMENTS
WELD 261 STEEL FABRICATION	3	
WELD 221 ADV SHIELDED METAL ARC (SMAW)	3	 AWS Certificate
WELD 132 ADV GAS TUNGSTEN ARC (GTAW)	3	 AWS Certificate
SCIENTIFIC INQUIRY ELECTIVE	4	
AESTHETICS, CREATIVITY & APPRECIATION OR HUMAN COMMUNICATION & INTERACTION OR PEOPLE AND THEIR WORLDS	3	CHOOSE 1 OF THE 3 LISTED
TOTAL:	16	






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

TOTAL DEGREE CREDITS:

60

2022-2023

Semester 4

COURSE	CR	COMMENTS
AESTHETICS, CREATIVITY & APPRECIATION OR HUMAN COMMUNICATION & INTERACTION OR PEOPLE AND THEIR WORLDS	3	CHOOSE 1 OF THE 3 LISTED, NOT ALREADY TAKEN
WELD 135 ADV GAS METAL ARC WELD (GMAW)	3	 AWS Certificate
WELD 136 ADV FLUX CORE ARC WELD (FCAW)	3	 AWS Certificate
WELD 291 FABRICATION SHOP	3	
WELD 260 WELDING CAPSTONE	2	
TOTAL:	14	

Foundational Learning Courses (FLCs):

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

Aesthetics, Creativity, and Appreciation	Human Communication and Interaction	People and Their Worlds	Quantitative Reasoning	Scientific Inquiry	Writing and Rhetoric
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	