WELDING - ASSOCIATE OF APPLIED SCIENCE

The Welding Technology Program prepares students for a career in welding through hands-on, real-world welding training. Welding instruction is provided with carbon steel, stainless steel plate and pipe in all positions using GTAW, SMAW, GMAW and FCAW processes along with PAC (plasma arc cutting) and Oxy-fuel operations.

Students will attain a wide variety of marketable skills while being taught introductory and advanced welding methods. College of the Mainland offers a career pathway in Welding Technologies that allows students to complete a number of welding programs that qualify students to take a national certification exam.

Upon completion of the AAS welding degree program, students will demonstrate competency in performing a bend test on 6G-2" carbon steel pipe (combo and restricted). This bend test incorporates the essential welding skills assessed in all courses leading to the AAS and prepares students for the welding industry pre-job qualification tests. This test serves as the capstone experience for the AAS Welding degree.

Graduation Requirements

To be eligible for a Certificate or Associate of Applied Science degree in Welding Technology, students must have

- Completed the prescribed courses listed in this Catalog with an overall grade point average of 2.0 or better
- Passed each class listed in the prescribed course of study with a grade of "C" or better
- Met any individually prescribed behavior or remediation related requirements.

Effective September 1, 2017, HB 1508 amends the Texas Occupations Code Section 53 that requires education providers to notify potential or enrolled students that a criminal history may make them ineligible for an occupational license upon program completion. Program specific information will be provided in course syllabi.

Stackable Credentials

- Associate of Applied Science - Welding (p. 1)
- Certificate - Advance Level Welding (http://coursecatalog.com.edu/catalog/areas-of-study/industry/advanced-level-welding-cert1/#fulltimescheduletext)
- Certificate - Entry Level Welding (http://coursecatalog.com.edu/catalog/areas-of-study/industry/entry-level-welding-cert1/#fulltimescheduletext)

Full-Time Student Schedule

Course	Title	Semester Credit Hours
Semester #1 (Fall)		
WLDG 1428	Introduction to Shielded Metal Arc Welding (SMAW)	4
WLDG 1434	Introduction to Gas Tungsten Arc (GTAW) Welding	4
WLDG 1430	Introduction to Gas Metal Arc (GMAW) Welding	4
ENGL 1301	Composition I [1]	3
	Semester Credit Hours	**15**
Semester #2 (Spring)		
WLDG 1425	Introduction to Oxy-Fuel Welding and Cutting	4
WLDG 1457	Intermediate Shielded Metal Arc (SMAW) Welding	4
WLDG 1412	Introduction to Flux Cored Arc Welding (FCAW)	4
MATH 1332	Contemporary Math (Quantitative Reasoning) [1]	3
	Semester Credit Hours	**15**
Semester #3 (Summer)		
WLDG 1435	Introduction to Pipe Welding	4
WLDG 2451	Advanced Gas Tungsten Arc (GTAW) Welding	4
	Semester Credit Hours	**8**
Semester #4 (Fall)		
WLDG 2413	Welding Using Multiple Processes	4
WLDG 2406	Intermediate Pipe Welding	4
HIST 1301	U S History I [1]	3
	Semester Credit Hours	**11**
Semester #5 (Spring)		
Select from one of the following:		3
PHIL 2306	Introduction to Ethics [1]	
ARTS 1301	Art Appreciation [1]	
MUSI 1306	Music Appreciation [1]	
GEOL 1403	Physical Geology [1]	4
WLDG 2453	Advanced Pipe Welding	4
	Semester Credit Hours	**11**
	Total Semester Credit Hours	**60**

[1] Course(s) listed in the Texas Common Course Numbering System (https://tccns.org/institution/id:14/yid:19/)

Part-Time Student Schedule

Course	Title	Semester Credit Hours
Semester #1		
WLDG 1428	Introduction to Shielded Metal Arc Welding (SMAW)	4
WLDG 1434	Introduction to Gas Tungsten Arc (GTAW) Welding	4
	Semester Credit Hours	**8**
Semester #2		
WLDG 1457	Intermediate Shielded Metal Arc (SMAW) Welding	4
WLDG 2451	Advanced Gas Tungsten Arc (GTAW) Welding	4
	Semester Credit Hours	**8**

Semester #3		
WLDG 1430	Introduction to Gas Metal Arc (GMAW) Welding	4
	Semester Credit Hours	**4**
Semester #4		
WLDG 1425	Introduction to Oxy-Fuel Welding and Cutting	4
WLDG 1435	Introduction to Pipe Welding	4
	Semester Credit Hours	**8**
Semester #5		
WLDG 1412	Introduction to Flux Cored Arc Welding (FCAW)	4
WLDG 2406	Intermediate Pipe Welding	4
	Semester Credit Hours	**8**
Semester #6		
WLDG 2413	Welding Using Multiple Processes	4
	Semester Credit Hours	**4**
Semester #7		
ENGL 1301	Composition I [1]	3
WLDG 2453	Advanced Pipe Welding	4
	Semester Credit Hours	**7**
Semester #8		
MATH 1332	Contemporary Math (Quantitative Reasoning) [1]	3
HIST 1301	U S History I [1]	3
GEOL 1403	Physical Geology [1]	4
	Semester Credit Hours	**10**
Semester #9		
Select from one of the following:		3
PHIL 2306	Introduction to Ethics [1]	
MUSI 1306	Music Appreciation [1]	
ARTS 1301	Art Appreciation [1]	
	Semester Credit Hours	**3**
	Total Semester Credit Hours	**60**

[1] Course(s) listed in the Texas Common Course Numbering System (https://tccns.org/institution/id:14/yid:19/)