

Welding Technology

Overview

The Welding Program prepares students to understand and utilize most of the basic welding processes to join such metals as carbon, aluminum, and stainless steel, which will provide them with the information and training to step directly into employment. The program will also prepare students for many types of employment related to welding, such as engineering, quality control, manufacturing technician, etc.

Grayson College offers an Associate of Applied Science degree and two certificates of completion that train students in **Combination Welding** and **Structural Welding**.

Many of the Welding courses may be taken for non-credit through the College's Continuing Education division. Classes are available on the Main Campus and the South Campus.

Course Requirements

The Associate Degree, the Structural Welder Certificate and the Combination Welder Certificate require a High School Diploma or equivalent. The Associate of Applied Science Degree requires that TSI requirements are met.

Capstone Experience

Graduation with the Associate of Applied Science Degree in Welding or the completion of the Combination or Structural Welding Certificate requires successful completion of a Comprehensive Exit Exam.

Local Employers

ACS, B-Line, Caterpillar, Champion Cooler Custom Bodies, Dutech, Magna-Fab, Mueller Construction, Progress Rail, Plyler Construction, Weld-Co

AAS Degree Requirements

Associate of Applied Science Degree - Welding Technology

Subject	Semester Hours
WLDG 1421 (Welding Fundamentals)	4
WLDG 1428 (Introduction to Shielded Metal Arc Welding (SMAW))	4
DFTG 1309 (Basic Computer-Aided Drafting)	3
Mathematics Core (020)	3
WLDG 1457 (Intermediate Shielded Metal Arc Welding (SMAW))	4
WLDG 1430 (Introduction to Gas Metal Arc Welding (GMAW))	4
*Language, Phil, Culture/Creative Arts Core	3
BUSI 2309 (Small Business Management) or BUSG 1302 or BUSG 1304 or BMGT 1305 or BMGT 1327	3
WLDG 1434 (Introduction to Gas Tungsten Arc (GTAW) Welding)	4
WLDG 2447 (Advanced Gas Metal Arc Welding (GMAW))	4
DFTG 1425 (Blueprint Reading)	4
ENGL 1301 (Composition I)	3
*Social & Behavioral Science	3
WLDG 2451 (Advanced Gas Tungsten Arc Welding (GTAW))	4
WLDG 2406 (Intermediate Pipe Welding)	4
SPCH 1321 (Business & Professional Communication)	3
ELPT 1311 (Basic Electrical Theory)	3
total: 60	

Capstone Experience: All students must complete the capstone requirement: successful completion of a comprehensive exit exam prior to graduation.

*Please review your Student Planner or contact your Student Success Coach/Faculty Advisor to review which courses may be used to fill this degree requirement.

Certificate Degree Requirements

Welding/Combination Welder - Certificate

Subject	Semester Hours
WLDG 1421 (Welding Fundamentals)	4
WLDG 1428 (Introduction to Shielded Metal Arc Welding (SMAW))	4
WLDG 1457 (Intermediate Shielded Metal Arc Welding (SMAW))	4
WLDG 1430 (Introduction to Gas Metal Arc Welding (GMAW))	4
WLDG 1434 (Introduction to Gas Tungsten Arc (GTAW) Welding)	4
WLDG 2406 (Intermediate Pipe Welding)	4
DFTG 1425 (Blueprint Reading)	4
WLDG 2451 (Advanced Gas Tungsten Arc Welding (GTAW))	4
WLDG 2447 (Advanced Gas Metal Arc Welding (GMAW))	4
total: 36	

Capstone Experience: All students must complete the capstone requirement: successful completion of a comprehensive exit exam prior to graduation.

Combination Welder/Small Business Management - Certificate

Subject	Semester Hours
WLDG 1421 (Welding Fundamentals)	4
WLDG 1428 (Introduction to Shielded Metal Arc Welding (SMAW))	4
ACNT 1303 (Introduction to Accounting I)	3
WLDG 1457 (Intermediate Shielded Metal Arc Welding (SMAW))	4
WLDG 1430 (Introduction to Gas Metal Arc Welding (GMAW))	4
ACNT 1313 (Computerized Accounting Applications)	3
BMGT 1327 (Principles of Management)	3
WLDG 1434 (Introduction to Gas Tungsten Arc (GTAW) Welding)	4
WLDG 2406 (Intermediate Pipe Welding)	4
DFTG 1425 (Blueprint Reading)	4
BUSG 1304 (Financial Literacy)	3
WLDG 2451 (Advanced Gas Tungsten Arc Welding (GTAW))	4
WLDG 2447 (Advanced Gas Metal Arc Welding (GMAW))	4
BUSG 2309 (Small Business Management)	3
total: 51	

Welding/Structural - Certificate

Subject	Semester Hours
WLDG 1421 (Welding Fundamentals)	4
WLDG 1428 (Introduction to Shielded Metal Arc Welding (SMAW))	4
WLDG 1430 (Introduction to Gas Metal Arc Welding (GMAW))	4
WLDG 1457 (Intermediate Shielded Metal Arc Welding (SMAW))	4
total: 16	

Capstone Experience: All students must complete the capstone requirement: successful completion of a comprehensive exit exam prior to graduation.

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