



UNIVERSITY OF  
**RIO GRANDE**



## Welding Program

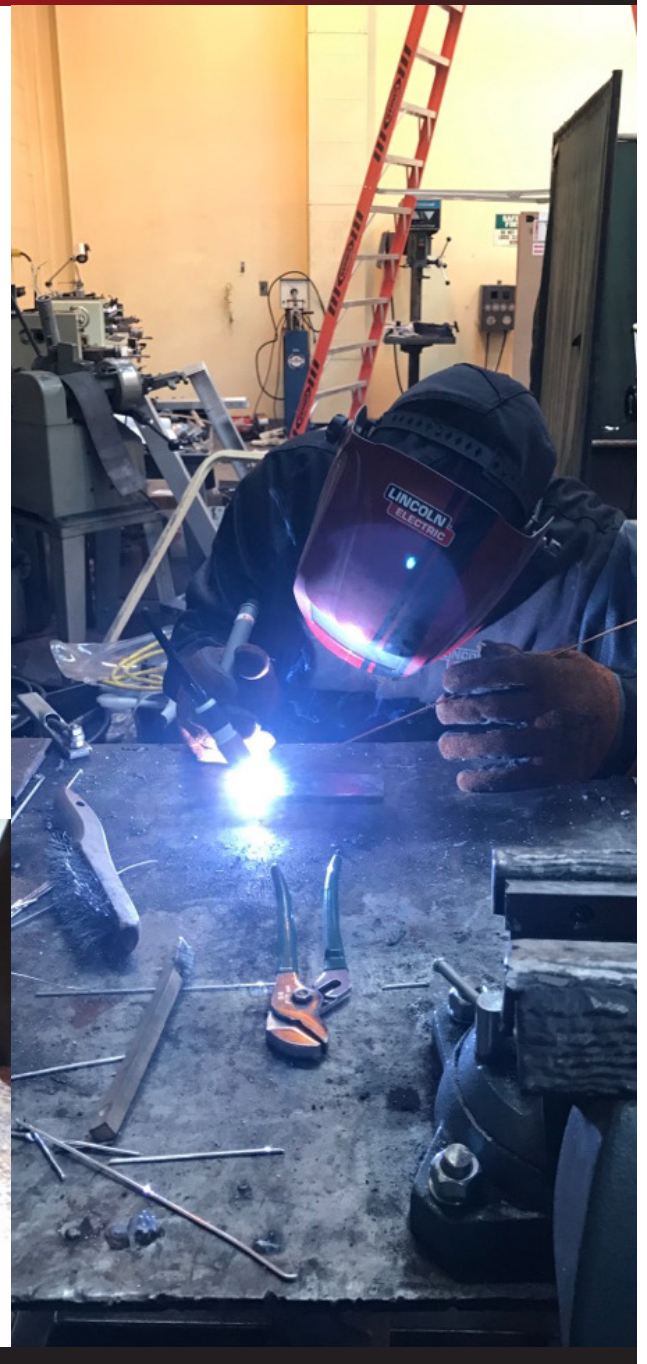
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The Welding Program offers a two-year option in which the student will receive an Associate in Technical Studies Degree (ATS) in Welding, as well as a one-year option in which the student will receive a certificate in Welding.

The Welding program is designed to train welders for jobs relating to structural welding and fabrication applications. The program will provide the student with a strong foundation in the following fields: structural welding and fabrication, destructive and non-destructive weld testing techniques, and welding code compliance requirements.

In addition to welding skills, the program will require the student to complete coursework in the fields of print reading, machine tool operations (lathes, milling machines, drill presses, etc.) and technical mathematics.

This broad-based foundation will afford the students who successfully complete the program the opportunity to become productive employees for companies ranging from structural/fabrication welding shops to repair/rebuild machine shops.



# Welding Program

## Curriculum

### Welding Certificate Program

#### Fall

MFG 10103 Basic Welding  
MFG 10203 Basic GMAW Processes  
MFG 11102 Blueprint Reading  
MFG 12103 Welding Test & Inspection  
TEC 11704 Technical Math I

#### Spring

ENG 11103 Composition I\*  
MFG 12403 Manufacturing Processes  
MFG 20103 Advanced Welding  
MFG 20203 Basic GTAW Processes  
MFG 24103 Materials & Metallurgy

### Welding ATS Degree

#### Fall 1st year

	Credit Hrs
LA 10001 Gateway To Success	1
HPE 24302 Safety & First Aid	2
ELE 10103 Basic Electricity/Electronics	3
MFG 10103 Basic Welding	3
MFG 10203 Basic GMAW Processes	3
TEC 11704 Tech Math I	4

**Total Semester hours: 16**

#### Fall 2nd year

	Credit Hrs
ENG 21403 Business Tech. Writing	3
MFG 11102 Blueprint Reading	2
MFG 12103 Welding Testing & Inspection	3
MFG 22203 Basic Pipe Welding	3
MFG 24103 Materials & Metallurgy	3
MFG 27102 OSHA	2

**Total Semester hours: 16**

**Total hours: 65**

\* Placement determined by testing.

#### Spring 1st year

	Credit Hrs
ENG 11103 Composition I	3
HIS 3-Hour History Course	3
MFG 12403 Manufacturing Processes	3
MFG 20103 Advanced Welding	3
TEC 11804 Tech Math II	4

**Total Semester hours: 16**

#### Spring 2nd year

	Credit Hrs
COM 11103 Fundamentals of Speech	3
MFG 16102 Hydraulics & Pneumatics	2
MFG 20203 Basic GTAW Processes	3
MFG 23103 Advanced Pipe Welding	3
PSY 11103 General Psychology	3
3-Hour Computer Class	3

**Total Semester hours: 17**

#### Contacts:

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