

Welding and Cutting

Adviser: Young • Offered at Senatobia campus only

Career Certificate

The Welding and Cutting curriculum is designed to prepare the student for entry level employment in the field of welding and cutting. The curriculum includes Shielded Metal Arc Welding (SMAW), Gas Metal Arc Welding (GMAW), Flux Cored Arc Welding (FCAW), Plasma Arc Cutting (PAC), Carbon Arc Cutting, Oxyfuel Cutting, Gas Metal Arc Aluminum Welding, and Gas Tungsten Arc Welding (GTAW).

National Standards Developed by American Welding Society (AWS)

The welding competencies required in this curriculum were developed to coincide with the American Welding Society (AWS) and the National Center for Construction Education and Research (NCCER).

Both AWS and NCCER provide a series of reference materials to support this curriculum. For additional information visit the American Welding Society website (www.aws.org) or the NCCER website (www.nccer.org/welding). Students in the program will complete NCCER certifications or AWS SENSE Level 1 certification.

The Northwest Welding and Cutting program has a zero tolerance policy concerning illegal substance use/abuse and/or misuse of legal substances. All potential and current welding and cutting students must submit to substance testing in accordance with the substance testing policies and procedures. **A major accident will require a drug test at the student's expense.**

Special admissions requirements: Students who wish to enroll in the Welding and Cutting program must:

1. Students should understand that entrance is by way of an Admissions Committee. The committee has the responsibility of screening qualified program applicants who have submitted necessary records and credentials prior to the semester of entrance, including but not limited to, a current negative 5-panel drug screen.
2. Students must provide their own tools. Please see adviser for current tool list.

| First Semester | Semester Hours | Second Semester | Semester Hours |
|---|----------------|--|----------------|
| WLT 1114, Shield. Mtl. Arc Weld. I... | 4 | WLT 1135, Gas Tungs. Arc Welding | 5 |
| WLT 1225, Shielded Metal Arc Welding II..... | 5 | WLT 1125, Gas Metal Arc Welding ... | 5 |
| WLT 1313, Cutting Processes | 3 | WLT 1143, Flux Cored Arc Welding.. | 3 |
| WLT 1173, Intro. to Welding and Safety | 3 | WLT 1232, Drawing, Basic Metallurgy and Welding Symbols | 2 |
| Total | 15 | Total | 15 |

Students who can document mastery of these competencies should not receive duplicate instruction. Students who cannot demonstrate mastery will be required to do so.

For more information about our graduation rates, the median debt of students who completed the program, and other important information, please visit our website at www.northwestms.edu.