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Welding Technology - CERT C

Semester-by-Semester Pathway

A Certificate is outlined coursework that is designed to prepare a student to head out into the workforce in a short timeframe or for career advancement. This certificate totals 48 credit hours. Consult with an advisor for more information. Not all courses are offered each semester.

(T) are Systemwide Transfer Courses

(★) are recommended for this degree pathway.

| Semester 1 - Fall | | | | |
|-------------------|------------------------|---------------------------------|--------------|--------------|
| Complete | Course ID | Course Title | Credit Hours | Notes |
| Required Courses | | | | |
| | WE102 | Welding Blueprint Reading | 3.00 | Fall, Spring |
| | WE104 | Shielded Metal Arc Welding | 3.00 | Fall |
| | WE106 | Cutting Processes for Welding | 2.00 | Fall |
| | WE110 | Gas Metal Arc Welding | 3.00 | Fall, Spring |
| | WE112 | Gas Tungsten Arc Welding | 3.00 | Fall, Spring |
| | WE115 | Welding Layout and Calculations | 2.00 | Fall, Spring |
| Electives | | | | |
| | Welding Safety Options | | 1.00 | |
| Semester Total: | | | 17.00 | |

| Semester 2 - Spring | | | | |
|---------------------|-------------------------------|--|--------------|---|
| Complete | Course ID | Course Title | Credit Hours | Notes |
| Required Courses | | | | |
| | WE105 | Shielded Metal Arc Welding II | 3.00 | Fall, Spring Prereq: WE104 SMAW w/Grade of C or Higher, or Departmental Consent. |
| | WE111 | Gas Metal Arc Welding II | 3.00 | Fall, Spring Prereq: WE110 Gas Metal Arc Welding w/Grade of C or Higher. |
| | WE113 | Gas Tungsten Arc Welding II | 3.00 | Spring Prereq: WE112 GTAW w/Grade of C or Higher. |
| | WE117 | Welding Inspection and Qualification I | 2.00 | Fall, Spring |
| | WE128 | Welding Metallurgy | 2.00 | Fall, Spring |
| Electives | | | | |
| | Welding Options Certificate C | | 2.00 | |
| Semester Total: | | | 15.00 | |

| Semester 3 - Fall | | | | |
|-------------------|-----------|--------------|--------------|-------|
| Complete | Course ID | Course Title | Credit Hours | Notes |
| Required Courses | | | | |

| | | | | |
|------------------------|-------|---|--------------|--|
| | WE209 | Welding Fabrication Processes | 4.00 | Fall Prereq: Departmental Consent. |
| | WE217 | Gas Tungsten Arc Welding III | 4.00 | Spring Prereq: WE112 GTAW w/Grade of C or Higher, or Departmental Consent, and WE113 GTAW II w/Grade of C or Higher. |
| | WE218 | Shielded Metal Arc Welding III | 4.00 | Fall Prereq: WE104 SMAW w/Grade of C or Higher, or Departmental Consent, and WE105 SMAW II with a Grade of C or Higher. |
| | WE220 | Welding Inspection and Qualification II | 4.00 | Spring Prereq: WE217 Gas Tungsten Arc Welding III, and WE218 Shielded Metal Arc Welding III. |
| Electives | | | | |
| Semester Total: | | | 16.00 | |

Total Credits: 48.00

*Semester offerings reflect the current academic year.

| Welding Options Certificate C | | | |
|-------------------------------|----------------------------|--------------|---|
| Course ID | Course Title | Credit Hours | Notes |
| ★ WE116 | Flux Cored Arc Welding | 2.00 | Spring Prereq: WE110 Gas Metal Arc Welding w/Grade of C or Higher, or Departmental Consent, and WE111 Gas Metal Arc Welding II w/Grade of C or Higher. |
| WE118 | Industrial Robotic Welding | 2.00 | Spring Prereq: WE110 Gas Metal Arc Welding, or Departmental Consent. |

| Welding Safety Options | | | |
|------------------------|----------------------------------|--------------|--------------|
| Course ID | Course Title | Credit Hours | Notes |
| ★ TR121 | General Industrial Safety/OSHA10 | 1.00 | Fall, Summer |
| WE101 | Welding Safety | 1.00 | Fall |

Program Notes:

Semester offerings are based on location. Consult an advisor for more information.