



Welding/Manufacturing Fundamentals Certificate – 30642
Recommended Course Sequencing – 2023-2024

| Course | Requirement Filled | Cr | Notes |
|--|-------------------------|-------|--|
| Fall - 1st Semester | | | |
| AMT 101 Fundamentals of Machining | Curriculum Requirements | 2 | Fall only |
| WLD 101 Welding | Curriculum Requirements | 3 | Fall/Spring offered |
| Total Hours | | 5 | |
| Spring - 2nd Semester | | | |
| AMT 104 Machining and Fabrication | Curriculum Requirements | 3 | Spring only |
| WLD 108 Welding and Metal Fabrication | Curriculum Requirements | 3 | Fall/Spring offered |
| Total Hours | | 6 | |
| Fall - 3rd Semester | | | |
| AMT 110 Introduction to Fab Lab Technology | Curriculum Requirements | 2 | Fall/Spring offered |
| WLD 201 Repair Welding and Fabrication | Curriculum Requirements | 3 | Prerequisite: WLD 101 or WLD 108 or Instructor approval Fall only |
| Total Hours | | 5 | |
| Spring - 4th Semester | | | |
| WLD 211 Pipe Welding OR WLD 260 Flux Cored Arc and Gas Metal Arc Welding | Curriculum Requirements | 3 | Prerequisite: WLD 101 or WLD 108 or Instructor approval Spring only |
| AMT 220 Advanced Manufacturing Methods | Curriculum Requirements | 4 | Prerequisite: AMT 104 or Instructor approval. Spring only |
| WLD 290 Welding Certification OR DRF 150 Dimensioning and Tolerancing | Curriculum Requirements | 1-2 | WLD 290 Prerequisite: WLD 260 or WLD 270 or concurrent enrollment in WLD 260 or WLD 270 or instructor approval |
| Total Hours | | 8-9 | |
| Total Hours | | 24-25 | |
| Total Curriculum Requirements | | 24-25 | |

Notes: If a student enters the program in the spring, or transfers credit in, the above would have to be modified.

All courses must be completed with a grade of "C" or better--Be sure to check the catalog for other changes and requirements.

Curriculum Requirements

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|--|----------------|--|
| AMT 101 Fundamentals of Machining | 2 credits | |
| AMT 104 Machining and Fabrication | 3 credits | |
| AMT 110 Introduction to Fab Lab Technology | 2 credits | |
| AMT 220 Advanced Manufacturing Methods | 4 credits | |
| WLD 101 Welding | 3 credits | |
| WLD 108 Welding and Metal Fabrication | 3 credits | |
| WLD 201 Repair Welding and Fabrication OR | | |
| WLD 270 Technical Welding OR | | |
| WLD 280 Advanced Arc Welding | 3 credits | |
| WLD 211 Pipe Welding OR | | |
| WLD 260 Flux Cored Arc and Gas Metal Arc Welding | 3 credits | |
| WLD 290 Welding Certification OR | | |
| DRF 150 Dimensioning and Tolerancing | 1 to 2 credits | |

Last Updated: 2/2023