

HAWAI'I COMMUNITY COLLEGE

MACHINE, WELDING AND INDUSTRIAL MECHANICS TECHNOLOGIES



THE MACHINE, WELDING & INDUSTRIAL MECHANICS TECHNOLOGIES PROGRAM

prepares the student for employment in the metalworking and mechanical/maintenance trades. Employment may be in construction, food processing, manufacturing, utilities, astronomical observatories, or related industries. The job requires good physical health, above average eye/hand coordination, mechanical reasoning, and good form perception and spatial relationship. Job responsibilities may include fabricating, repairing, or maintaining metal products on equipment, buildings, and systems.

Program Learning Outcomes

Upon successful completion, students are prepared to:

- Demonstrate mechanical reasoning; form perception and spacial relations; numerical reasoning and communication skills as a part of the basic entry-level skills and knowledge to gain employment in the Machining, Welding, Industrial Mechanics or related fields.
- Demonstrate the attributes of a good employee; good safety practices; positive work ethics; working collaboratively or independently under supervision; an awareness of hazardous materials and a responsibility for the orderliness and cleanliness of the workplace.
- Demonstrate eye and hand coordination and dexterity in the proper set-up and use of the basic machine tools and equipment; metalworking equipment; the common welding and cutting processes; industrial mechanics equipment; material handling equipment and related machinery.
- Demonstrate the applications of and the ability to use the common hand tools; layout tools; measuring tools; precision measuring tools; common cutting and forming tools, tools used with the common fasteners and specialty tools, and the common metalworking and mechanic tools.
- Demonstrate form perception and spatial relations in the applications of geometric construction; the three common methods of pattern development; industrial practices in framing and structural fabrication; practices in welding joint design and joint preparation and the common machine shop operations and practices.
- Demonstrate the skills of a life-long learner; the ability to read blueprints; knowledge of metals and the common materials and supplies; the ability to do the work related math; and the ability to communicate and read technical resources.

For more information: hawaii.hawaii.edu/mwim



Estimated Cost of Attendance

Associate of Applied Science in Machine Welding & Industrial Mechanics (MWIM)

Contact

Faculty

Miyashiro, Darrell

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Instructor

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For more information visit
hawaii.hawaii.edu/mwim

Hawai'i Community College

Manono Campus

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Pālanui Campus

73-4225 Ane Keohokalole Hwy.
Kailua-Kona, HI 96740
Phone: (808) 969-8800

Information Center

MC Bldg 378-5
Phone: (808) 934-2800
Fax: (808) 934-2501
Email: hawccinf@hawaii.edu

Admissions & Records

MC Bldg 378-5
Phone: (808) 934-2710
Fax: (808) 934-2501
Email: hawccar@hawaii.edu

Financial Aid

MC Bldg 378-5
Phone: (808) 934-2712
Fax: (808) 934-2711
Email: hawccfao@hawaii.edu

Counseling, Advising & Support Services Center

Karen Crowell, Counselor
MC Bldg 379-8A
Phone: (808) 934-2724
Fax: (808) 934-2501
Email: kcrowell@hawaii.edu

| Semester Course(s) and Credits | Description | Cost |
|--|---|--|
| Fall 2024 | | |
| MWIM 142 - Introduction to Machining and Welding (8) | Resident Tuition: \$131/credit (18 credits) + \$30 fees | \$2388 |
| | Book: | \$260 |
| MWIM 145 - Introduction to ARC Welding (4) | Safety Equipment/Tools: | \$1900 |
| QM 120T - Quantitative Methods (3) | Book required | \$46 |
| English 100 OR 102 OR 106 (3) | Books: Dependent on specific course | Estimated Total \$4,594 |
| Spring 2025 | | |
| MWIM 152 - Sheet Metal & Machining (8) | Resident Tuition: \$131/credit (16 credits) + \$30 fees | \$2126 |
| | No books required | |
| MWIM 155 - Intermediate Welding & Qualifications Procedures (4) | Tools | \$250 |
| BLPR 50 - Blueprint for Welding & Machine Trades (4) | Book required | \$145 |
| | | Estimated Total \$2,521 |
| Fall 2025 | | |
| MWIM 162 - Lathe Facing & Knurling (4) | Resident Tuition: \$131/credit (18 credits) + \$30 fees | \$2388 |
| MWIM 165 - Advanced Welding (8) | No books required | |
| Social Environmental Elective (3) | Books: Dependent on specific course | |
| Cultural Environmental Elective (3) | Books: Dependent on specific courses | Estimated Total \$2388 |
| Spring 2026 | | |
| MWIM 172 - Introduction to CNC Milling (4) | Resident Tuition: \$131/credit (15 credits) + \$30 fees | \$1995 |
| MWIM 175 - Special Process Welding & Rigging (8) | No books required | |
| Natural Environment Elective (3) | Books: Dependent on specific course | Estimated Total \$1995 |
| Total Estimated Cost of Attendance for Hawai'i Resident | | \$11,498 |

For general inquiries, please call the Hawai'i Community College Information Center at 934-2800 or visit hawaii.hawaii.edu.

Hawai'i Community College is an equal opportunity/affirmative action institution and is committed to a policy of nondiscrimination in its programs and activities, including admissions and employment. For general inquiries regarding our nondiscrimination policies, contact Christine Quintana, Vice Chancellor for Student Affairs, (808) 934-2510, cdamate@hawaii.edu.

For disability accommodations, contact Disability Services at (808) 934-2825 or hawccds@hawaii.edu and allow 5 business days to process requests.