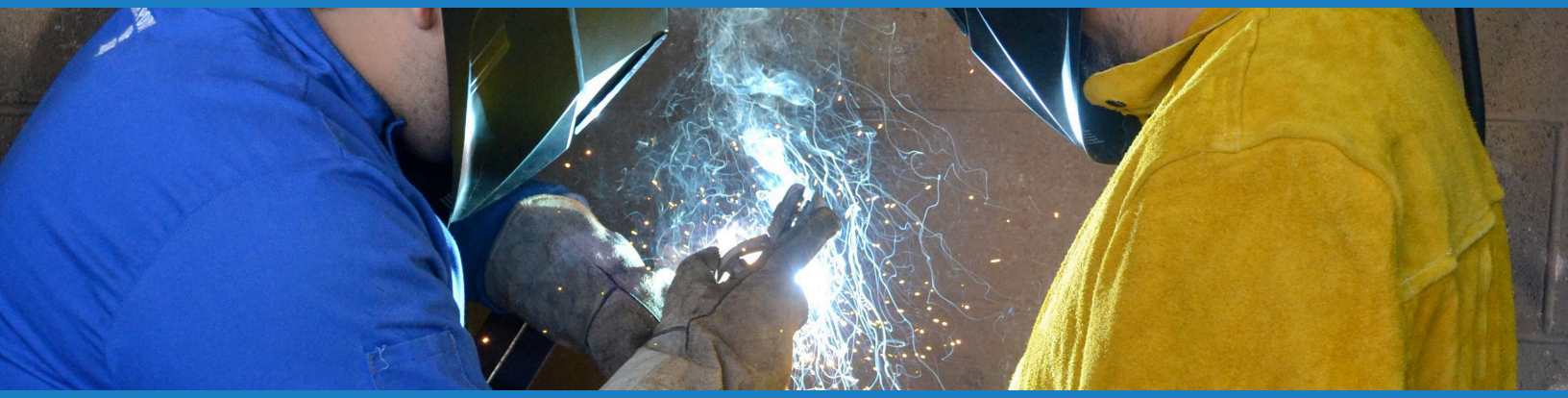
Hawai'i Community College

# 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**

UNIVERSITY of HAWAI'I®
HAWAI'I COMMUNITY COLLEGE

HAWAII COMMUNITY COLLEGE APPLIED TECHNICAL EDUCATION DIVISION

# 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**

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www.hawaii.hawaii.edu

**Pālamanui 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 387-108
Phone: (808) 934-2724
Fax: (808) 934-2501
Email: kcrowell@hawaii.edu


| Semester Course(s) and Credits | | Description | Cost |
|---|---|---|---|
| **Fall 2025** | | | |
| **MWIM 142** - Introduction to Machining and Welding | (8) | **Resident Tuition:** $131/credit (18 credits) + $30 fees | $2388 |
| | | Book: | $511 |
| **MWIM 145** - Introduction to ARC Welding | (4) | **Safety Equipment/Tools:** | $1900 |
| **QM 120T** - Quantitative Methods | (3) | **Book required** | $52 |
| English 100 OR 102 OR 106 | (3) | **Books:** Dependent on specific course | **Estimated Total $4,851** |
| **Spring 2026** | | | |
| **MWIM 152** - Sheet Metal & Machining | (8) | **Resident Tuition:** $131/credit (16 credits) + $30 fees | $2126 |
| **MWIM 155** - Intermediate Welding & Qualifications Procedures | (4) | No books required | |
| | | **Tools** | $250 |
| **BLPR 50** - Blueprint for Welding & Machine Trades | (4) | **Book required** | $145 |
| | | | **Estimated Total $2,521** |
| **Fall 2026** | | | |
| **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 2027** | | | |
| **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 Institution.

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