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
## Contact

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Email: hawccar@hawaii.edu

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E-mail: hawccfao@hawaii.edu

**Counseling, Advising & Support Services Center**

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

Hawai‘i Community College is an equal opportunity/affirmative action institution and is committed to a policy of nondiscrimination on the basis of race, sex, age, religion, color, national origin, ancestry, disability, marital status, arrest and court record, sexual orientation, status as a covered veteran, national guard, victims of domestic or sexual violence, gender identity and expression, genetic information, citizenship, credit history, and income assignment. For inquiries regarding our nondiscrimination policies, please contact the Office of the Vice Chancellor for Student Affairs, hawvcsa@hawaii.edu. For disability accommodations, please contact Disability Services at (808) 934-2825.

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### Estimated Cost of Attendance

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

<table>
<thead>
<tr>
<th>Semester Course(s) and Credits</th>
<th>Description</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Fall 2023</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MWIM 142 - Introduction to Machining and Welding</td>
<td>(8)</td>
<td>Resident Tuition: $131/credit (18 credits) + $30 fees</td>
</tr>
<tr>
<td>MWIM 145 - Introduction to ARC Welding</td>
<td>(4)</td>
<td>Books: Safety Equipment/Tools: $430</td>
</tr>
<tr>
<td>QM 120T - Quantitative Methods</td>
<td>(3)</td>
<td>Book: $1650</td>
</tr>
<tr>
<td>English 100 OR 102 OR 106</td>
<td>(3)</td>
<td>Books: Dependent on specific course</td>
</tr>
<tr>
<td><strong>Spring 2024</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MWIM 152 - Sheet Metal &amp; Machining</td>
<td>(8)</td>
<td>Resident Tuition: $131/credit (16 credits) + $30 fees</td>
</tr>
<tr>
<td>MWIM 155 - Intermediate Welding &amp; Qualifications Procedures</td>
<td>(4)</td>
<td>No books required</td>
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<tr>
<td>BLPR 50 - Blueprint for Welding &amp; Machine Trades</td>
<td>(4)</td>
<td>Tools Book: $145</td>
</tr>
<tr>
<td><strong>Fall 2024</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MWIM 162 - Lathe Facing &amp; Knurling</td>
<td>(4)</td>
<td>Resident Tuition: $131/credit (18 credits) + $30 fees</td>
</tr>
<tr>
<td>MWIM 165 - Advanced Welding</td>
<td>(8)</td>
<td>No books required</td>
</tr>
<tr>
<td>Social Environmental Elective</td>
<td>(3)</td>
<td>Books: Dependent on specific course</td>
</tr>
<tr>
<td>Cultural Environmental Elective</td>
<td>(3)</td>
<td>Books: Dependent on specific course</td>
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<tr>
<td><strong>Spring 2025</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MWIM 172 - Introduction to CNC Milling</td>
<td>(4)</td>
<td>Resident Tuition: $131/credit (15 credits) + $30 fees</td>
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<tr>
<td>MWIM 175 - Special Process Welding &amp; Rigging</td>
<td>(8)</td>
<td>No books required</td>
</tr>
<tr>
<td>Natural Environment Elective</td>
<td>(3)</td>
<td>Books: Dependent on specific course</td>
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<tr>
<td><strong>Total Estimated Cost of Attendance for Hawai‘i Resident</strong></td>
<td></td>
<td>$11,416</td>
</tr>
</tbody>
</table>

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