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  
Phone: (808) 934-2684  
Email: darrells@hawaii.edu

For more information visit hawaii.hawaii.edu/mwim

**Hawai'i Community College**
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Kailua-Kona, HI 96740  
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MC 378-15A  
Phone: (808) 934-2710  
Fax: (808) 934-2501  
Email: hawccar@hawaii.edu

**Financial Aid**
MC 379A-4  
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Fax: (808) 934-2711  
E-mail: hawcfa@hawaii.edu

**Counseling, Advising & Support Services Center**
Karen Crowell, Counselor  
MC 379-8A  
Phone: (808) 934-2724  
Fax: (808) 934-2501  
Email: kcrowell@hawaii.edu

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### Fall 2022 Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Description</th>
<th>Credits</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>MWIM 142</td>
<td>Introduction to Machining and Welding</td>
<td>(8)</td>
<td>$2358 = $2358</td>
</tr>
<tr>
<td>MWIM 145</td>
<td>Introduction to ARC Welding</td>
<td>(4)</td>
<td>$366</td>
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<tr>
<td>QM 120T</td>
<td>Quantitative Methods</td>
<td>(3)</td>
<td>$1650</td>
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<tr>
<td>English 100 OR 102 OR 106</td>
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<td>(3)</td>
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**Total Estimated Cost of Attendance for Hawai'i Resident**: $2,414

### Spring 2023 Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Description</th>
<th>Credits</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>MWIM 152</td>
<td>Sheet Metal &amp; Machining</td>
<td>(8)</td>
<td>$2096 = $2096</td>
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<tr>
<td>MWIM 155</td>
<td>Intermediate Welding &amp; Qualifications Procedures</td>
<td>(4)</td>
<td>$200</td>
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<tr>
<td>BLPR 50</td>
<td>Blueprint for Welding &amp; Machine Trades</td>
<td>(4)</td>
<td>$145</td>
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**Estimated Total**: $2,441

### Fall 2023 Courses

<table>
<thead>
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<th>Course Code</th>
<th>Description</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>MWIM 162</td>
<td>Lathe Facing &amp; Knurling</td>
<td>(4)</td>
<td>$2358+$30 = $2388</td>
</tr>
<tr>
<td>MWIM 165</td>
<td>Advanced Welding</td>
<td>(8)</td>
<td>No books required</td>
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<tr>
<td>Social Environmental Elective</td>
<td>(3)</td>
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</tr>
<tr>
<td>Cultural Environmental Elective</td>
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**Estimated Total**: $2,388

### Spring 2024 Courses

<table>
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<th>Course Code</th>
<th>Description</th>
<th>Credits</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>MWIM 172</td>
<td>Introduction to CNC Milling</td>
<td>(4)</td>
<td>$1965+$30=$1995</td>
</tr>
<tr>
<td>MWIM 175</td>
<td>Special Process Welding &amp; Rigging</td>
<td>(8)</td>
<td>No books required</td>
</tr>
<tr>
<td>Natural Environment Elective</td>
<td>(3)</td>
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</tbody>
</table>

**Estimated Total**: $1,995

### Total Estimated Cost of Attendance for Hawai'i Resident

$11,198

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