

## EIMT - ELECTRICAL INSTALLATION AND MAINTENANCE TECHNOLOGY

**LIAISON:** Louis Maghanoy III (845-9476, louisomag@hawaii.edu)

**WEBSITE:** [www.honolulu.hawaii.edu/eimt](http://www.honolulu.hawaii.edu/eimt)

**FACULTY:** Louis Maghanoy III (845-9476)

**PROGRAM MISSION:** The Electrical Installation & Maintenance Technology program's mission is to serve the community as a learning-centered, open door program that provides technical training to meet the demands of the electrical industry and the needs of the individual. An open-exit option allows the students to identify their career objectives and participate in program exploration.



**PROGRAM DESCRIPTION:** The curriculum is designed to prepare students with entry level knowledge and manipulative skills for employment in the electrical industry. The program combines theory with laboratory activities as an effective means of developing the skills essential to the electrical trade. The student begins with the fundamentals of electricity and wiring of simple circuits, then progresses to residential interior wiring, three phase alternating current power, and wiring of more complex circuits and equipment. Safety is stressed as an integral part of each shop task. Emphasis is placed on wiring in accordance with the provisions contained in the National Electrical Code.

**PROGRAM LEARNING OUTCOMES (PLOs):** Upon successful completion of the EIMT program, students will be able to:

- Work independently and inter-dependently on a construction and/or maintenance project meeting industry standards.
- Comply with published electrical codes and safety standards.
- Select and order appropriate electrical parts (materials) based on blueprints and drawings.
- Calculate electrical circuit loads and design/draw the electrical circuits.
- Install electrical systems/equipment in new construction under supervision of a journey person.
- Troubleshoot, repair, and conduct routine maintenance of electrical systems/equipment.

**PROGRAM REQUIREMENTS:**

Program Prerequisites: *MATH 50 OR Placement into MATH 150 higher*

First Semester	CA Credits	AAS Credits
<i>EIMT 30 - Electrical Installation Theory I</i>	4	4
<i>EIMT 32 - Electrical Installation I</i>	6	6
<i>IEDB 100 - Blueprint Reading</i>	3	3
<i>MATH 150 - Technical College Mathematics</i>		3
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	13	16
Second Semester	CA Credits	AAS Credits
<i>EIMT 44 - AC/DC Systems and Equipment</i>	4	4
<i>EIMT 46 - Electrical Maintenance and Repair</i>	6	6
<i>COMMUNICATION (Recommended: ENG 100)</i>		3
<i>PHYS 103 - Physics for Electrical Technology</i>	4	4
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	14	17
Third Semester	CA Credits	AAS Credits
<i>EIMT 50 - Solid State Control</i>	4	4
<i>EIMT 52 - Solid State Control Lab</i>	6	6
<i>General Education Requirements *</i>		6
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	10	16
Fourth Semester	CA Credits	AAS Credits

<i>EIMT 40 - Electrical Installation Theory II</i>	4	4
<i>EIMT 42 - Electrical Installation II</i>	6	6
<i>General Education Requirement *</i>		3
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	10	13
<b>Minimum Credits Required</b>	<b>47</b>	<b>62</b>

\* General Education Requirements for the AAS degree are listed under *DEGREES AND CERTIFICATES*.

Note: Students must meet the minimum proficiency standards in communication established by Honolulu CC to qualify for the Certificate of Achievement.

**COST OF TEXTBOOKS/SUPPLIES:** The cost for textbooks is approximately \$350. Required hand tools cost approximately \$300.

**ADVISORY COMMITTEE:**

Robert Aquino, Program Specialist, International Brotherhood of Electrical Workers, Local Union 1186  
 Brain Merrit, Merrit Electric  
 Sean Mounthongdy, Frito-Lay of Hawai'i  
 Shannon Sullivan, National ABE USA

