THE ARCHITECTURAL, ENGINEERING AND CAD TECHNOLOGIES PROGRAM prepares students for employment with architectural firms, contractors, engineers, surveyors, or government agencies. Job responsibilities range from making accurate working drawings of buildings to assisting a surveying crew.

Entry Requirements
Proficiency levels in reading, writing and/or mathematics are required to register for some or all of the Program courses:

<table>
<thead>
<tr>
<th>SUBJECT AREA</th>
<th>MINIMUM PLACEMENT INTO COURSE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mathematics</td>
<td>Math 24 or Math 26</td>
</tr>
<tr>
<td>Reading</td>
<td>Eng 102</td>
</tr>
<tr>
<td>Writing</td>
<td>Eng 100</td>
</tr>
</tbody>
</table>

Program Learning Outcomes
Upon successful completion, students are prepared to:

- Using computational and reasoning skills, demonstrates entry-level skills for accuracy in drawings, and identifies the relationship of features to demonstrate visualization proficiency.
- Formulate, design, revise, and construct projects utilizing knowledge of proper construction materials and resources based on design criteria, and be able to defend, explain, and discuss.
- Design and generate Architectural and Engineering documents using two-dimensional and three-dimensional CAD programs.
- Demonstrate operational competence in using surveying hand tools and equipment.
- Demonstrate communication, critical thinking, research, and problem-solving skills.
- Illustrate within the design process an understanding of the balance between cultures, community, and the environment.

For more information: hawaii.hawaii.edu/aec
## Contact

**Faculty**

- Gayle Cho  
  Phone: 934-2680  
  Email: gaylec@hawaii.edu
- Donna De Silva  
  Phone: 934-2682  
  Email: deluz@hawaii.edu

For more information visit  
[www.hawaii.hawaii.edu/aec](http://www.hawaii.hawaii.edu/aec)

### Hawai‘i Community College

#### Manono Campus

- 1175 Manono Street  
  Hilo, Hawaii 96720-4091  
  Phone: (808) 934-2800  
  Fax: (808) 934-2501  
  [www.hawaii.hawaii.edu](http://www.hawaii.hawaii.edu)

#### Pālamanui Campus

- 73-4225 Ane Keohokalole Hwy.  
  Kailua-Kona, HI 96740  
  Phone: (808) 969-8800  
  Fax: (808) 934-2725

### Information Center

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

### Admissions & Records

- MC 378-15A  
  Phone: 934-2710  
  Fax: 934-2501  
  Email: hawccar@hawaii.edu

### Financial Aid

- MC 379-A  
  Phone: 934-2712  
  Fax: 934-2711  
  Email: hawccfa@hawaii.edu

### Counseling, Advising & Support Services Center

- Karen Crowell, Counselor  
  MC 379-SA  
  Phone: 934-2720  
  Fax: 934-2501  
  Email: kcrowell@hawaii.edu

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**Estimated Cost of Attendance**

**Associate of Applied Science in Architectural Engineering & CAD (AEC)**

<table>
<thead>
<tr>
<th>Semester Course(s) and Credits</th>
<th>Description</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Fall 2021</strong></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
| AEC 100 - Drafting Conventions & Materials (5) | Resident Tuition: $131 / credit + Fees (16 credits)  
Books: | $2096 + $30 = $2126  
| | $213 |
| AEC 112 - Computer Aided Drafting (3) | Equipment/Supplies: Laptop: (Not Mac) | $350  
| AEC 113 - Geomatics & Land Surveying (2) | Books: | $700  
| AEC 115 - Introduction to Architecture (2) | Dependent on specific course | |
| Math 120 - Trigonometry for Surveying (4) | Estimated Total | $3389 |
| **Spring 2022** | | |
| AEC 120 - Residential Design & Construction Drawings (6) | Resident Tuition: $131 / credit + Fees (17 credits)  
Books: | $2227 + $30 = $2257  
| | No books needed |
| AEC 128 - Sustainable Environmental Design (2) | Equipment/Supplies: | |
| AEC 129 - Sustainable Design & Site Preparation (2) | Books: | Dependent on specific course |
| AEC 150 - Introduction to GIS & GPS (4) | Estimated Total | $2257 |
| English 100 | | |
| **Fall 2022** | | |
| AEC 230 - Residential Contract Drawing & Codes (4) | Resident Tuition: $131/credit + Fees (15 credits)  
Books: | $1965 + $30 = $1995  
| | No books needed |
| AEC 233 - Basic Architectural Studio A (4) | Equipment/Supplies: | $100 |
| AEC 234 - 3-D Cad Imaging (1) | Books: | Dependent on specific course |
| AEC 238 - Architectural Historic preservation (2) | Estimated Total | $2095 |
| AEC 249 - Introduction to Drafting Career Success | | |
| Natural Environment Elective (3) | | |
| **Spring 2023** | | |
| AEC 240 - Commercial Contract Drawing (3) | Resident Tuition: $131 / credit + Fees (18 credits)  
Books: | $2358 + $30 = $2388  
| | No books needed  
| AEC 241 - Building Services & BIM (3) | Equipment/Supplies: | $100 |
| AEC 242 - Basic Architectural Studio B (4) | Books: | Dependent on specific course |
| AEC 247 - Geomatics & Land Surveying II (2) | Dependent on specific course | |
| Cultural Environmental Elective (3) | Estimated Total | $2488 |
| Social Environment Elective (3) | | |

**Total Estimated Cost of Attendance for Hawai‘i Resident**  
$10,229

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For general inquiries, please call the Hawai‘i Community College Information Center at 934-2800 or visit [hawaii.hawaii.edu](http://hawaii.hawaii.edu).

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Hawaii Community College is an equal opportunity/affirmative action institution and is committed to a policy of non-discrimination 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 non-discrimination policies, please contact Jason Cifra, VC for Student Affairs, cifra@hawaii.edu. For disability accommodations, please contact Hā‘awi Kōkua at (808) 934-2725.