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

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- Donna De Silva  
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  Email: deluz@hawaii.edu

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  Phone: 934-2710  
  Fax: 934-2501  
  Email: hawccar@hawaii.edu
- **Financial Aid**  
  MC 379-A  
  Phone: 934-2712  
  Fax: 934-2711  
  Email: hawccfao@hawaii.edu
- **Counseling, Advising & Support Services Center**  
  Karen Crowell, Counselor  
  MC 379-5A  
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  Fax: 934-2501  
  Email: kcrowell@hawaii.edu

Hawai‘i 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 hāawi Kōkua at (808) 934-2725.

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### Estimated Cost of Attendance

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

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course(s) and Credits</th>
<th>Description</th>
<th>Cost</th>
</tr>
</thead>
</table>
| **Fall 2020** | **AEC 100 - Drafting Conventions & Materials** (5) | Resident Tuition: $131 / credit + Fees (16 credits)  
Essential Books: $120 | **Total** Estimated Total: $2126 |
| **Fall 2020** | **AEC 112 - Computer Aided Drafting** (3) | Equipment/Supplies: $250  
Laptop: (Not Mac) $350 | **Total** Estimated Total: $2846 |
| **Fall 2020** | **AEC 113 - Geomatics & Land Surveying** (2) | Essential Books: | **Total** Estimated Total: |
| **Fall 2020** | **AEC 115 - Introduction to Architecture** (2) | | |
| **Fall 2020** | **Math 120 - Trigonometry for Surveying** (4) | | |
| **Spring 2021** | **AEC 120 - Residential Design & Construction Drawings** (6) | Resident Tuition: $131 / credit + Fees (17 credits)  
Essential Books: | **Total** Estimated Total: $2257 |
| **Spring 2021** | **AEC 128 - Sustainable Environmental Design** (2) | No books needed | |
| **Spring 2021** | **AEC 129 - Sustainable Design & Site Preparation** (2) | | |
| **Spring 2021** | **AEC 150 - Introduction to GIS & GPS** (4) | Essential Books: | **Total** Estimated Total: $2257 |
| **Spring 2022** | **AEC 230 - Residential Contract Drawing & Codes** (4) | Resident Tuition: $131 / credit + Fees (15 credits)  
Essential Books: | **Total** Estimated Total: $2045 |
| **Spring 2022** | **AEC 233 - Basic Architectural Studio A** (4) | No books needed | |
| **Spring 2022** | **AEC 234 - 3-D Cad Imaging** (1) | Equipment/Supplies: $50 | |
| **Spring 2022** | **AEC 238 - Architectural Historic preservation** (2) | | |
| **Spring 2022** | **AEC 249 - Introduction to Drafting Career Success** (1) | Books: Essential Books: | **Total** Estimated Total: $2045 |
| **Spring 2022** | **Natural Environment Elective** (3) | | |
| **Spring 2022** | **Cultural Environmental Elective** (3) | | |
| **Spring 2022** | **Social Environment Elective** (3) | | |

**Total Estimated Cost of Attendance for Hawai‘i Resident** $9586

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