

ARCHITECTURAL, ENGINEERING AND CAD TECHNOLOGIES



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:

<u>SUBJECT AREA</u>	<u>MINIMUM PLACEMENT INTO COURSE</u>
Mathematics	Math 82X
Reading	Eng 102
Writing	Eng 100 or Eng 100E

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.



Estimated Cost of Attendance

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

Contact

Faculty

Donna Pacheco
 Phone: (808) 934-2682 Email: deluz@hawaii.edu

For more information visit
hawaii.hawaii.edu/aec

Hawai'i Community College

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 1175 Manono Street
 Hilo, Hawaii 96720-4091
 Phone: (808) 934-2800
 Fax: (808) 934-2501
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Pālanuui Campus
 73-4225 Ane Keohokalole Hwy.
 Kailua-Kona, HI 96740
 Phone: (808) 969-8800

Information Center

MC Bldg 378-5
 Phone: (808) 934-2800
 Fax: (808) 934-2501
 Email: hawccinf@hawaii.edu

Admissions & Records

MC Bldg 378-5
 Phone: (808) 934-2710
 Fax: (808) 934-2501
 Email: hawccar@hawaii.edu

Financial Aid

MC Bldg 378-5
 Phone: (808) 934-2712
 Fax: (808) 934-2711
 E-mail: hawccfao@hawaii.edu

Counseling, Advising & Support Services Center

Karen Crowell, Counselor
 MC Bldg 379-8A
 Phone: (808) 934-2724
 Email: kcrowell@hawaii.edu

Semester Course(s) and Credits	Description	Cost
Fall 2024		
EngT 100 - Drafting Conventions & Blueprint Reading (4)	Resident Tuition: \$131/credit (15 credits) + \$30 fees	\$1965 + \$30 = \$1995
EngT 107 - Unmanned Ariel Systems Flight (4)	Book:	\$213
EngT 112 - Computer Aided Drafting (3)	Laptop/Drawing Equipment:	\$1,300
EngT 270 - Introduction to Geographic Information Systems (GIS) (or GEOG 270) (4)		Estimated Total \$3508
Spring 2025		
EngT 120 - Residential Design & Construction (4) Drawings	Resident Tuition: \$131/ credit (15 credits) + \$30 fees	\$1965 + \$30 = \$1995
EngT 129 - Geomatics & Land Surveying (3)	No books required	
EngT 275 - Spatial Data Management & Analysis (4)		
EngT 291 - Rural & Urban Remote Sensing (or AG 291) (4)		Estimated Total \$1995
Fall 2025		
EngT 230 - Residential Contract Drawing & Codes (6)	Resident Tuition: \$131/credit (15 credits) + \$30 fees	\$1965 + \$30 = \$1995
EngT 247 - Geomatics & Land Surveying II (3)	No books required	
Math 100 - Survey of Mathematics or higher (3)	Books: Dependent on specific course	
Natural Environment Elective (3)	Books: Dependent on specific course	Estimated Total \$1995
Spring 2026		
EngT 233 - Basic Architectural Studio Design (3)	Resident Tuition: \$131/credit (15 credits) + \$30 fees	\$1965+ \$30 = \$1995
EngT 234 -Architectural Design Software Systems (3)	No books required	
English 100 - Composition I (3)	Books: Dependent on specific course	
Cultural Environmental Elective (3)	Books: Dependent on specific course	
Social Environment Elective (3)	Books: Dependent on specific course	Estimated Total \$1995
Total Estimated Cost of Attendance for Hawai'i Resident		\$9,493

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

Hawai'i Community College is an equal opportunity/affirmative action institution and is committed to a policy of nondiscrimination in its programs and activities, including admissions and employment. For general inquiries regarding our nondiscrimination policies, contact Christine Quintana, Vice Chancellor for Student Affairs, (808) 934-2510, cdamate@hawaii.edu.

For disability accommodations, contact Disability Services at (808) 934-2825 or hawccds@hawaii.edu and allow 5 business days to process requests.