

**HONOLULU COMMUNITY COLLEGE/ UNIVERSITY OF HAWAI'I AT MĀNOA
TRANSFER GUIDE: MECHANICAL ENGINEERING (BS)**

UH Mānoa Admissions Requirements for BS in Engineering:

- Cumulative GPA: 3.0 (in the engineering core courses listed below) OR 2.0 GPA with completion of the AS-NS (engineering) degree
- Completion of ENG 100, MATH 241 and 242, PHYS 170 and 170L, CHEM 161 and 161L, and CHEM 162

UH Mānoa Engineering Requirements offered at Honolulu Community College (HCC):

UHM Course	Course Title	Cr.	HCC Equivalent	Course Title	Cr.
ENG 100 ^{FW}	Composition I	3	ENG 100 ^{FW}	Composition I	3
CEE 270	Applied Mechanics I	3	CE 270	Applied Mechanics I	3
CEE 271	Applied Mechanics II	3	CE 271	Applied Mechanics II	3
CHEM 161 ^{DP} & 161L ^{DY}	General Chemistry I & General Chemistry Lab I	3/1	CHEM 161 ^{DP} & 161L ^{DY}	General Chemistry I & General Chemistry I Lab	3/1
CHEM 162	General Chemistry II	3	CHEM 162	General Chemistry II	3
COMG 251 ^{DA}	Prin of Effective Public Speaking	3	SP 251 ^{DA}	Prin of Effective Speaking	3
ECON 120, 130 or 131 ^{DS}	Intro to Econ, Prin of Micro, or Prin of Macro	3	ECON 120, 130 or 131 ^{DS}	Intro to Econ, Prin of Micro, or Macro	3
ICS 111 or EE 160	Intro to Computer Science I or Programming for Engineers	4	ICS 111 or EE 160	Intro to Comp Science I or Intro to Comp Prog Methods	4
EE 211	Basic Circ Analysis I	4	*EE 211 (KCC, LCC, WCC)	Basic Circ Analysis I	4
MATH 241 ^{FQ}	Calculus I	4	MATH 241 ^{FQ}	Calculus I	4
MATH 242	Calculus II	4	MATH 242	Calculus II	4
MATH 243	Calculus III	3	MATH 243	Calculus III	3
MATH 244	Calculus IV	3	MATH 244	Calculus IV	3
ME 213	Intro to Engr Design	3	*ME 213 (KCC, LCC)	Intro to Engr Design	3
PHYS 170 & 170L	General Physics I & General Physics I Lab	4/1	PHYS 170 & 170L	General Physics I & General Physics Lab	4/1
PHYS 272 & 272L	General Physics II & General Physics II Lab	3/1	PHYS 272 & 272L	General Physics II & General Physics II Lab	3/1
PHYS 274 OR BIOL 171 ^{DB} (Technical Elec)	General Physics III OR Intro to Biology I	3/3	*PHYS 274 OR BIOL 171 ^{DB} (Technical Elec)	General Physics III OR Intro to Biology I	3

* Can take at another UH community college

Mānoa Transfer Coordination Center strives to create accurate transfer guides for students; however, requirements may change without notice. Students are responsible for working with an advisor at both their community college and UH Mānoa to ensure that their academic plan will meet requirements and timelines.

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Mechanical Engineering (ME) — Mechanical engineering is concerned with the design of all types of machines, conversion of energy from one form to another, instrumentation and control of all types of physical and chemical processes, the manufacturing and utilization of engineering materials, and control of human and machine environments. Mechanical engineers conceive, plan, design, and direct the manufacture, distribution, and operation of a wide variety of devices, machines, instruments, materials, and systems used for energy conversion, heat and mass transfer, biomedical applications, environmental control, control of human and machine environment, physical and chemical process control, materials processing, transportation, manufacture of consumer products, materials handling, and measurements. Mechanical engineers also employ Computer Aided Design (CAD), Computer Aided Manufacturing (CAM), Computer Aided Testing (CAT), Computational Fluid Dynamics (CFD), computer modeling and simulations, novel materials, robotics, and mechatronics (integration of computers with electromechanical systems) in their day-to-day activities.

UH Mānoa ME Website: <http://www.me.hawaii.edu/>

Engineering Notes

- HCC's GPA does not apply towards UH Mānoa's cumulative GPA for graduation requirements. However, your HCC grades will be used to calculate your gpa for admission into the College of Engineering.
- UH Mānoa College of Engineering requires a \$500 professional fee beginning sophomore year for all Pre-Engineering and Engineering majors.
- It's never too early to start networking, it is highly recommended for students to join student organizations. For more information visit: <https://www.eng.hawaii.edu/students/clubs/>.
- ME curriculum at UHM offers: 4 WI courses, O and E focus (300-level) courses. ME 213, ME 342, ME 375, ME 422 and ME 481 satisfy the W-focus requirement. It is recommended to take 2 writing intensive (WI) courses while at HCC for the AS-NS degree.
- It is advised that students take Math 302 or 307 prior to Fall of their Junior year as it is a pre-req to ME 371 and ME 371 is a pre-req to the following Spring 300+ ME courses.
- It is advised that students take Math 244 prior to Fall of their Junior year as it is a pre-req to ME 311.

University of Hawai'i at Mānoa Transfer Admission Requirements:

- 24 transferable semester credits or 12 transferable semester credits completed and have at least 12 transferable semester credits in progress
- Cumulative transfer GPA: 2.0 for residents; 2.5 for non-residents
- If you do not have 24 transferable credits, admission will be based on both your college and high school work.

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UH Mānoa Admission Deadlines	
January 5	Fall semester applications due for international applicants and for priority consideration
March 1	All fall admission applications due
September 1	Spring semester applications due for international applicants and for priority consideration
October 1	All spring admission applications due
For more information on how to apply to the University of Hawai'i at Mānoa please visit: http://manoa.hawaii.edu/admissions/undergrad/	
Ka'ie'ie Transfer Pathway Program	
Ka'ie'ie is a pathway program for students at Honolulu Community College who are planning to transfer to the University of Hawai'i at Mānoa. For more information on Ka'ie'ie and the benefits of the program please visit: http://uhcc.hawaii.edu/kaieie/	
Contact Information: Lauren Prepose-Forsen, lprepose@hawaii.edu	
UH Mānoa Engineering Contact Information	
Jill S.K. Nakatsu - Academic Advisor Phone: (808) 956-8404 Email: jillkoba@hawaii.edu Schedule Appointments at: uhcoe_jill.youcanbook.me 2540 Dole St., Holmes Hall 240 • Honolulu, HI 96822 Website: http://www.eng.hawaii.edu	
Associate of Science in Natural Science (ASNS): Engineering	
The ASNS Degree at Honolulu Community College offers a pathway for Pre-Engineering students planning to transfer to baccalaureate degree programs. Students who complete an ASNS degree require a 2.0 cumulative GPA for admission into Mānoa's Engineering program. Please contact a HCC Counselor for more detailed information on the ASNS degree requirements:	
HCC Counseling and Advising Office – (808) 845-9162, Building 5, Room 102	

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