

THE UNIVERSITY OF HAWAII' I - KAPI'OLANI COMMUNITY COLLEGE

ASSOCIATE IN SCIENCE IN NATURAL SCIENCE – ENGINEERING

Effective Fall 2025

60 credits minimum and 2.0 grade point ratio (GPR) or higher for all courses applicable toward the degree

I. GENERAL EDUCATION (19 Credits)	COURSE	CR	GR
Foundations Written Communication (FW): (1 course) ENG 100 or ESL 100			
Foundations Quantitative Reasoning (FQ): (1 course) MATH 241 (formerly MATH 205)			
Foundations Global & Multicultural Perspectives (FG): (2 courses, each course selected from a different group) Group A (FGA): ANTH 151; ART 175; HIST 151; REL 149/WS 149 Group B (FGB): ANTH 152; ART 176; GEO 102 (formerly GEOG 102); HIST 152; SSCI 102 Group C (FGC): GEO 151 (formerly GEOG 151); MUS 107; REL 150			
Diversification Arts, Humanities, & Literatures (DA, DH, DL): SP 251 required for UH Mānoa College of Engineering Arts (DA): ART 101, 104, 105, 106J, 107, 107D, 111, 112, 113, 114, 115, 116, 123, 189, 207, 213, 214, 223, 225, 243, 244, 245, 253, 269 (any alpha); DNCE 121, 122, 131, 132, 150, 212, 213; HWST 222; IS 161; MUS 108, 114, 121B, 121C, 121D, 121Z, 122B, 122Z, 183, 201, 206, 229, 231C, 253; SP 151, 233, 251; THEA 101, 221, 222 Humanities (DH): AMST 201; ART 270, 280, 290; ASAN 201, 202; ASL 290; CHNS 290; HAW 290; HIST 231, 232, 241, 242, 281, 282, 284, 288; HUM 269 (any alpha); 295 (any alpha); HWST 100, 107, 110, 207, 216, 257, 281, 281L, 282, 282L, 285; IS 109; JPN 131, 290; KOR 290; LING 102; MUS 106, 170, 290; PHIL 100, 101, 103, 213, 250; REL 151, 215, 222; SLT 202 (any alpha) Literatures (DL): EALL 261, 262, 269 (any alpha), 271, 272; ENG 270 (any alpha), 271 (any alpha), 272 (any alpha), 273 (any alpha); HAW 261, 262; HWST 270; LLEA 239; SPAN 250			
Diversification Social Sciences (DS): (1 course - ECON 120, 130, or 131 recommended for UH Mānoa College of Engineering) ANTH 200, 210; ASAN 100; BOT 105; COM 201; ECON 120, 130, 131; ED 284, 289; ES 101; HDFS 230 (formerly FAMR 230); HWST 255; LING 150; PACS 108; POLS 110, 120, 130, 207; PSY 100, 170, 202, 212, 225, 240, 250, 260, 270; SLT 102, 103; SOC 100, 214, 218, 231, 251, 257; SP 181; SW 200			
II. CHEMISTRY COURSES (7 Credits)	COURSE	CR	GR
CHEM 161 (General Chemistry I) Prereq(s): "C" or higher in MATH 103. Recommended: MATH 135.			
CHEM 161L (General Chemistry I Lab) Prereq(s): "C" or higher in MATH 103 and credit or concurrent enrollment in CHEM 161.			
CHEM 162 (General Chemistry II) Prereq(s): "C" or higher in CHEM 161; and "C" or higher in MATH 103. Recommended: MATH 135.			
III. ENGINEERING (28 - 29 Credits)	COURSE	CR	GR
EE 160 (Programming for Engineers) Prereq(s): MATH 135 or higher math or placement in MATH 140 or higher. Recommend MATH 140.			
MATH 242 (Calculus II) Prereq(s): "C" or higher in MATH 241 (formerly MATH 205) or "C" or higher in an equivalent course.			
PHYS 170 (General Physics I) Prereq(s): Credit or concurrent enrollment in MATH 242 (formerly MATH 206). See KapCC Catalog.			
PHYS 170L (General Physics Lab I) Prereq(s): "C" or higher or concurrent enrollment in PHYS 170.			
PHYS 272 (General Physics II) Prereq(s): MATH 242 (formerly MATH 206); and PHYS 170 and PHYS 170L.			
PHYS 272L (General Physics Lab II) Prereq(s): PHYS 170 and PHYS 170L and credit or concurrent enrollment in PHYS 272.			
MATH 243 (Calculus III) Prereq(s): "C" or higher in MATH 242 (formerly MATH 206).			
CE 270 (Applied Mechanics I) or EE 211 (Basic Circuit Analysis I) See KapCC Catalog for prerequisites.			
MATH 244 (Calculus IV) Prereq(s): "C" or higher in MATH 243 (formerly MATH 231).			
IV. ELECTIVES (5 - 6 Credits) (** indicates strongly recommended courses)	COURSE	CR	GR
ASTR 110; BIOC 141, 244; BIOL 101, 101L, 124, 124L, 130, 130L, 171, 171L, 172, 172L, 265, 265L, 275, 275L; BOT 101, 101L, 105, 130, 130L, 201, 201L; CHEM 100, 272, 272L, 273, 273L; CE 270**, 271**; EE 211**, 260**, 296**; ERTH (formerly GG) 101L, 103; ICS 101, 110, 111, 141, 211, 212, 241; MATH 100, 111, 112, 115, 215; ME 213**; MICR 130, 140L (formerly MICR 140), 161, 230, 240; OCN 101, 201, 201L; OEST 101, 201; PHYL (formerly ZOOL) 141, 141L, 142, 142L, 160, 160L; PHYS 151, 151L, 152, 152L, 274**; SCI 295 (alpha)**; ZOOL 200, 200L. Any 101, 102, 201, 202 course that fulfills the KapCC AA/HSL requirement. Any course on the KapCC AA/DA, AA/DH, AA/DL, AA/DS lists that has not already been used to fulfill General Education requirements. Note: Hawaiian/Second Language not required for UH Mānoa College of Engineering programs.			

Revised 08.15.25

Please refer to the current KapCC Catalog for residency, curriculum, and other graduation requirements.

Thinking about transfer to UH Mānoa? Consider Writing Intensive (WI) and/or Hawaiian, Asian & Pacific Issues (HAP) focus courses at KapCC.

Advising: Maida Kamber Center for Career Exploration, Transfer and Graduation ('Ilima 104, 808-734-9500, mkcinfo@hawaii.edu)

The STEM program offers tutoring, internship, and scholarship support. Visit <http://kccstem.com>.