

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

## ASSOCIATE IN SCIENCE IN NATURAL SCIENCE – ENGINEERING

**Effective Fall 2023**

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
<b>Foundations Written Communication (FW):</b> (1 course) ENG 100 or ESL 100	<i>check boxes if transfer course</i>		
<b>Foundations Quantitative Reasoning (FQ):</b> (1 course) MATH 241 (formerly MATH 205)	<input type="checkbox"/>		
<b>Foundations Global &amp; Multicultural Perspectives (FG):</b> (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; HIST 152; SSCI 102 Group C (FGC): GEO 151; MUS 107; REL 150	<input type="checkbox"/>		
<b>Diversification Arts, Humanities, &amp; Literatures (DA, DH, DL):</b> (1 course - SP 251 recommended for UH Mānoa College of Engineering) <b>Arts (DA):</b> 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, 122Z, 183, 201, 206, 229, 231C, 253; SP 151, 233, 251; THEA 101, 221, 222 <b>Humanities (DH):</b> AMST 201; ART 270; 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, 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) <b>Literatures (DL):</b> 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	<input type="checkbox"/>		
<b>Diversification Social Sciences (DS):</b> (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, 240, 250, 260, 270; SLT 102, 103; SOC 100, 214, 218, 231, 251, 257; SOCS 225; SP 181; SW 200	<input type="checkbox"/>		
II. CHEMISTRY COURSES (7 Credits)	COURSE	CR	GR
CHEM 161 (General Chemistry I) Prereq(s): "C" or higher in MATH 103. Recommended: MATH 135.	<input type="checkbox"/>		
CHEM 161L (General Chemistry I Lab) Prereq(s): "C" or higher in MATH 103 and credit or concurrent enrollment in CHEM 161.	<input type="checkbox"/>		
CHEM 162 (General Chemistry II) Prereq(s): "C" or higher in CHEM 161; and "C" or higher in MATH 103. Recommended: MATH 135.	<input type="checkbox"/>		
III. ENGINEERING (28 - 29 Credits)	COURSE	CR	GR
EE 160 (Programming for Engineers) Prereq(s): MATH 135 or higher math or MATH 140 or higher placement. Recommend MATH 140.	<input type="checkbox"/>		
MATH 242 (Calculus II) Prereq(s): "C" or higher in MATH 241 (formerly MATH 205) or "C" or higher in an equivalent course.	<input type="checkbox"/>		
PHYS 170 (General Physics I) Prereq(s): Credit or concurrent enrollment in MATH 242 (formerly MATH 206). See KapCC Catalog.	<input type="checkbox"/>		
PHYS 170L (General Physics Lab I) Prereq(s): "C" or higher or concurrent enrollment in PHYS 170.	<input type="checkbox"/>		
PHYS 272 (General Physics II) Prereq(s): MATH 242 (formerly MATH 206); and PHYS 170 and PHYS 170L.	<input type="checkbox"/>		
PHYS 272L (General Physics Lab II) Prereq(s): PHYS 170 and PHYS 170L and credit or concurrent enrollment in PHYS 272.	<input type="checkbox"/>		
MATH 243 (Calculus III) Prereq(s): "C" or higher in MATH 242 (formerly MATH 206).	<input type="checkbox"/>		
CE 270 or EE 211 (Applied Mechanics I or Basic Circuit Analysis) See KapCC Catalog for prerequisites.	<input type="checkbox"/>		
MATH 244 (Calculus IV) Prereq(s): "C" or higher in MATH 243 (formerly MATH 231).	<input type="checkbox"/>		
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, 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.	<input type="checkbox"/>		
	<input type="checkbox"/>		

Revised 08.15.23

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>.