

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

ASSOCIATE IN SCIENCE IN NATURAL SCIENCE – PRE-ENGINEERING

60-credits of 100-200 level courses and minimum cumulative Grade Point Ratio (GPR) of 2.0 required.

Effective Fall 2016

I. GENERAL EDUCATION REQUIREMENTS (19 Credits)	COURSE	CR	GR
Foundations Written Communication (FW): (1 course) <i>check boxes if transfer course</i> ENG 100 or ESL 100 (Composition I) <input type="checkbox"/>			
Foundations Symbolic Reasoning (FS): (1 course) MATH 205 (Calculus I) <input type="checkbox"/>			
Foundations Global & Multicultural Perspectives (FG): (2 courses, each course selected from a different group) Group A: ANTH 151; HIST 151 <input type="checkbox"/> Group B: ANTH 152; GEOG 102; HIST 152 Group C: GEOG 151; MUS 107; REL 150 <input type="checkbox"/>			
Diversification Arts, Humanities, & Literatures (DA, DH, DL): (1 course - SP 251 recommended for UH Mānoa College of Engineering) Arts (DA): ART 101, 104, 105, 106J, 107, 111, 112, 113, 114, 115, 116, 123, 125, 126, 127, 128, 129, 156, 157, 159, 189, 202, 207, 212, 213, 214, 222, 223, 225, 226, 229, 243, 244, 245, 246, 247, 249, 253, 256, 257, 258, 260, 269 (any alpha), 284, 285, 293, 294, 295, 296; DNCE 121, 122, 131, 132, 150, 212, 213; IS 161; MUS 108, 114, 121B, 121C, 121D, 121Z, 122C, 183, 206, 229, 230, 231B, 231C, 231M, 253; SP 151, 231, 233, 251; THEA 101, 221, 222 Humanities (DH): AMST 201; ART 270, 280, 290; ASL 290; CHNS 290; HAW 290; HIST 222, 231, 232, 241, 242, 281, 282, 284, 288; HUM 269; HWST 100, 107, 216, 285; IS 109; JPNS 131, 290; KOR 290; LING 102; MUS 106, 170; PHIL 100, 101, 102, 103, 211, 213, 250; REL 151, 200, 201, 202, 209, 210, 215, 222; SLT 202B 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; PACS 257; SPAN 250			
Diversification Social Sciences (DS): (1 course - ECON 120, 130, or 131 recommended for UH Mānoa College of Engineering) ANTH 200; ASAN 100; BOT 105; COM 201; ECON 120, 130, 131; ED 284, 289; ES 101; FAMR 230; GEOG 210; HWST 255; JOUR 150; LAW 101; PACS 108, 201, 202; 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; SSCI 260; WS 202			
II. CHEMISTRY COURSES (7 Credits)	COURSE	CR	GR
CHEM 161 (General Chemistry I) Prerequisite(s): MATH 103 or placement in MATH 135. Recommended: MATH 135. <input type="checkbox"/>			
CHEM 161L (General Chemistry I Lab) Prerequisite(s): MATH 103; credit or concurrent enrollment in CHEM 161. <input type="checkbox"/>			
CHEM 162 (General Chemistry II) Prerequisite(s): "C" or higher in CHEM 161; "C" or higher in MATH 103. Recommended: MATH 135. <input type="checkbox"/>			
III. PRE-ENGINEERING (28 - 29 Credits)	COURSE	CR	GR
EE 160 (Programming for Engineers) Prerequisite(s): MATH 135. <input type="checkbox"/>			
MATH 206 (Calculus II) Prerequisite(s): "C" or higher in MATH 205 or placement in MATH 206. <input type="checkbox"/>			
PHYS 170 (General Physics I) Prerequisite(s): Credit or concurrent enrollment in MATH 206. Recommended: PHYS 100. <input type="checkbox"/>			
PHYS 170L (General Physics Lab I) Prerequisite(s): Credit or concurrent enrollment in PHYS 170. <input type="checkbox"/>			
PHYS 272 (General Physics II) Prerequisite(s): MATH 206; PHYS 170; PHYS 170L. <input type="checkbox"/>			
PHYS 272L (General Physics Lab II) Prerequisite(s): PHYS 170, PHYS 170L; credit or concurrent enrollment in PHYS 272. <input type="checkbox"/>			
MATH 231 (Calculus III) Prerequisite(s): "C" or higher in MATH 206 or placement in MATH 231. <input type="checkbox"/>			
CE 270 or EE 211 (Applied Mechanics I or Basic Circuit Analysis) (see catalog for prerequisites) <input type="checkbox"/>			
MATH 232 (Calculus IV) Prerequisite(s): "C" or higher in MATH 231 or placement in MATH 232. <input type="checkbox"/>			
IV. ELECTIVES (5 - 6 Credits) (** indicates strongly recommended courses)	COURSE	CR	GR
ASTR 110; BIOC 141, 244; BIOL 101, 171, 171L, 172, 172L, 265, 265L, 275, 275L; BOT 201, 201L; CHEM 272, 272L, 273; CE 270**, 271**, EE 211**, 260**, 296**; GG 101L, 103; ICS 111, 141, 211, 212, 241; MATH 100, 115; ME 213**; MICR 130, 140, 161, 230, 240; OCN 201; PHYS 151, 151L, 152, 152L, 274**; PHYL 160, 160L; SCI 295 (alpha)**; ZOOL 141, 141L, 142, 142L, 200, 200L; any Hawaiian or Second Language course (HSL) 101, 102, 201, 202; any course listed under the DA, DH, DL, DS diversification designations. Note: The Hawaiian or Second Language (HSL) requirement is not required for students admitted to the College of Engineering at UH Mānoa. <input type="checkbox"/>			
<input type="checkbox"/>			

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Advising sheets are subject to human error. Refer to current KCC 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 KCC.

**Advising: Maida Kamber Center for Career Exploration, Transfer and Graduation (‘Ilima 104, 808-734-9500)
Walk-in Advising Hours: Monday - Thursday 8:30-am - 4:30 pm**

The Science, Technology, Engineering and Math (STEM) Program offers tutoring, internships and scholarships support.
Visit them in Koki’o 202