



INFORMATION AND COMPUTER SCIENCES

STEM PROGRAM CLASSES:

- **ICS 110P - (NEW)** INTRO TO COMPUTER PROGRAMMING: PYTHON
- **ICS 111** - INTRO TO COMPUTER SCIENCE I (JAVA)
- **ICS 141** - DISCRETE MATH FOR COMPUTER SCIENCE I
- **ICS 211** - INTRO TO COMPUTER SCIENCE II (JAVA)
- **ICS 212** - PROGRAM STRUCTURE (C, C++)
- **ICS 235 - (NEW SUM 27)** INTRO TO MACHINE LEARNING (PYTHON)
- **ICS 241** - DISCRETE MATH FOR COMPUTER SCIENCE II

ASNS-ICS DEGREE

Two-year transfer program:

Associate in Science - Natural Science with a concentration in
Information and Computer Science



- **100- and 200-level courses required for a Bachelor's Degree in CS**
 - Required ICS classes: 111, 141, 211, 212, and 241
- **Transfer to a 4-year school as a Junior.**
 - Transfers directly to UH Manoa's BS in Computer Science - General, Security Science, and Data Science* tracks.

**Look at Certificate of Competence in Machine Learning CO-ICS-ML for more Data Science requirements*

**FOR MORE INFORMATION CONTACT ICS PROGRAM COORDINATOR LISA MILLER:
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Kapiolani
COMMUNITY COLLEGE



**ASSOCIATE IN SCIENCE IN NATURAL SCIENCE
INFORMATION AND COMPUTER SCIENCES (ICS)**

Effective Fall 2026

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			
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 (previously GEOG 102); HIST 152; SSCI 102 Group C (FGC): GEO 151 (previously GEOG 151); MUS 107; REL 150			
Diversification Arts, Humanities, & Literatures (DA, DH, DL): (1 course) Arts (DA): ART 101, 104, 105, 106J, 107, 107D, 111, 112, 113, 114, 115, 116, 123, 156, 189, 202, 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, 170, 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, 150; 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) ANTH 200, 210; ASAN 100; BOT 105; COM 201; ECON 120, 130, 131; ED 284, 289; ES 101; HDFS 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 (8 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. CHEM 162L (General Chemistry II Lab) Prereq(s): See KapCC Catalog for prerequisites and recommended preparation.			
III. INFORMATION AND COMMUNICATIONS TECHNOLOGY (19 Credits)	COURSE	CR	GR
ICS 111 (Introduction to Computer Science I) Prereq(s): Qualification for Math 103 or higher or consent of instructor. See KapCC Catalog. ICS 141 (Discrete Math for Computer Science I) Prereq(s): Qualification for Math 135 or higher or consent of instructor. See KapCC Catalog. ICS 211 (Introduction to Computer Science II) Prereq(s): "C" or higher in ICS 111 or consent of instructor. ICS 212 (Program Structure) Prereq(s): "C" or higher in ICS 211 or consent of instructor. ICS 241 (Discrete Math for Computer Science II) Prereq(s): "C" or higher in ICS 141 or consent of instructor. PHYS 151 (College Physics I) or PHYS 170 (General Physics I): See KapCC Catalog for prerequties and recommended preparation. PHYS 151L (College Physics Lab I) or PHYS 170L (General Physics Lab I): See KapCC Catalog for prerequisites.			
IV. ELECTIVES (14 Credits) (** indicates strongly recommended for this concentration)	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; CEE 270, 271; ECE 160**, 211, 260**, 296; ERTH 101L, 103; FSHE 185; GEO 101; ICS 100, 101, 110P**, 235**, MATH 100, 111, 112, 115, 215, 242**, 243**, 244**, ME 213; MICR 130, 140L, 161, 230, 240; OCN 101, 201, 201L; OEST 101, 201; PHYL 141, 141L, 142, 142L, 160, 160L; PHYS 100, 151, 151L, 152**, 152L**, 170, 170L, 272, 272L, 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: CEE 270, 271 were previously offered as CE 270, 271 respectively; ECE 160, 211, 260, 296 were previously offered as EE 160, 211, 260, 296 respectively. ERTH 101L, 103 were previously offered as GG 101L, 103 respectively; GEO 101 was previously offered as GEOG 101; MICR 140L was previously offered as MICR 140.			

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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>.