

Student Name:

Date:

THE UNIVERSITY OF HAWAII - KAPI'OLANI COMMUNITY COLLEGE

CERTIFICATE OF ACHIEVEMENT IN BIOTECHNOLOGY

Effective Fall 2026

A grade of "C" or higher must be earned in all courses required for this certificate.

42 Semester Credits Total

SEMESTER ONE (15 Credits)	COURSE	CR	GR
ENG 100 or ESL 100 (Composition I) Prereq(s): Qualification for ENG 100 or ESL 100. See KapCC Catalog.			
MATH 135 (Precalculus: Elementary Functions) or higher level mathematics Prereq(s): See KapCC Catalog.			
CHEM 161 (General Chemistry I) Prereq(s): "C" or higher in MATH 103. Recommended preparation: MATH 135.			
CHEM 161L (General Chemistry I Lab) Prereq(s): "C" or higher in MATH 103 and credit or concurrent enrollment in CHEM 161. Recommended preparation: MATH 135.			
MICR 130 (General Microbiology) Recommended preparation: MATH 82 or equivalent course; and CHEM 100 or CHEM 151 or CHEM 161 or BIOC 141.			
MICR 140L (General Microbiology Lab) Prereq(s): "C" or higher or concurrent enrollment in MICR 130 or consent of instructor. Recommended: MATH 82.			
SEMESTER TWO (10 Credits)	COURSE	CR	GR
CHEM 162 (General Chemistry II) Prereq(s): "C" or higher in CHEM 161 and grade of "C" or higher in MATH 103. Recommended preparation: MATH 135 or qualification for MATH 135 or higher-level mathematics course.			
CHEM 162L (General Chemistry II Lab) Prereq(s): "C" or higher in CHEM 161 and grade of "C" or higher in CHEM 161L and credit or concurrent enrollment in CHEM 162 and grade of "C" or higher in MATH 103. Recommended preparation: MATH 135.			
BIOL 171 (Introduction to Biology I) Prereq(s): "C" or higher or concurrent enrollment in CHEM 161. See KapCC Catalog for recommended preparation. It is strongly recommended to take BIOL 171L concurrently with BIOL 171.			
BIOL 171L (Introduction to Biology I Lab) Prereq(s): Credit or concurrent enrollment in BIOL 171.			
MICR 161 (Immunology and Protein Chemistry) See KapCC Catalog for prerequisites. Prerequisites may be waived by the consent of instructor.			
SEMESTER THREE (9 Credits)	COURSE	CR	GR
CHEM 272 (Organic Chemistry I) Prereq(s): "C" or higher in CHEM 162.			
CHEM 272L (Organic Chemistry I Lab) Prereq(s): "C" or higher in CHEM 162L and credit or concurrent enrollment in CHEM 272.			
BIOL 172 (Introduction to Biology II) Prereq(s): "C" or higher in BIOL 171 or consent of instructor.			
BIOL 172L (Introduction to Biology II Lab) Prereq(s): Credit or concurrent enrollment in BIOL 172.			
SEMESTER FOUR (8 Credits)	COURSE	CR	GR
BIOL 275 (Cell and Molecular Biology) See KapCC Catalog for prerequisites and recommended preparation.			
MICR 240 (Cell Biology and Tissue Culture) See KapCC Catalog for prerequisites. Prerequisites may be waived by consent of instructor.			
MICR 230 (Molecular Biology) See KapCC Catalog for prerequisites.			
SCI 295MI (STEM Research Experience in Microbiology and/or Molecular Biology) Prereq(s): Instructor consent. See KapCC Catalog for recommended preparation.			

Revised 08.14.26

This is a sample academic plan.

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

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

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