



University of Hawai'i at Mānoa
College of Tropical Agriculture and Human Resources Program Sheet 2017-2018
Bachelor of Science (BS) in Biological Engineering
Admissions: Open Process: Declaration
Min. Total Credits: 120 (120 in core & major + 0 in electives)

UHM General Education Core Requirements
Foundations
<input type="checkbox"/> FW ENG 100, 100A, 190, ESL 100, or AMST 111
<input type="checkbox"/> FS MATH 241
<input type="checkbox"/> FG (A / B / C)
<input type="checkbox"/> FG (A / B / C)
Diversification
<input type="checkbox"/> DA / DH / DL
<input type="checkbox"/> DA / DH / DL
<input type="checkbox"/> DB BIOL 171
<input type="checkbox"/> DP CHEM 161
<input type="checkbox"/> DY CHEM 161L
<input type="checkbox"/> DS ECON 120, 130, or 131
<input type="checkbox"/> DS
<i>* See degree, college and major requirements for courses that can also fulfill these.</i>
UHM Graduation Requirements
Focus
<input type="checkbox"/> H
<input type="checkbox"/> E (300+)
<input type="checkbox"/> O (300+)
<input type="checkbox"/> W
<input type="checkbox"/> W
<input type="checkbox"/> W
<input type="checkbox"/> W (300+)
<input type="checkbox"/> W (300+)
Hawaiian / Second Language
<ul style="list-style-type: none"> The Hawaiian or Second Language requirement is not required for students admitted to the Biological Engineering program.
Credit Minimums
<ul style="list-style-type: none"> 120 total applicable 30 in residence at UHM 45 upper division (300+ level) credits
Grade Point Average
<ul style="list-style-type: none"> 2.0 cumulative or higher (<i>Note: Other GPAs may be required</i>) Good academic standing

College Requirements
CTAHR Required Set of Interrelated Courses
<input type="checkbox"/> NREM 310
<input type="checkbox"/> Internship or capstone course (BE 481-482)
Credit Minimums
<ul style="list-style-type: none"> 120 total applicable

*This program sheet was prepared to provide information and does not constitute a contract. See back for major requirements.
 Meet regularly with your major advisor.*

Major Requirements for BS in Biological Engineering

Admission: Open

Application: NA

Min. major credits: 102-105

Min. exit GPA: 2.0 in the major

Requirements

Biological Engineering Required Basic Courses (51-52 credits)

ECON 120*^{DS}, 130*^{DS}, or 131*^{DS}

MATH 241*^{FS}

MATH 242

MATH 243

MATH 244

PHYS 170*^{DP} / 170L*^{DY}

PHYS 272*^{DP} / 272L*^{DY}

CHEM 161*^{DP} / 161L*^{DY}

CHEM 162*^{DP} / 162L*^{DY}

CHEM 272*^{DP} / 272L*^{DY}

BIOL 171*^{DB} / 171L*^{DY}

BIOL 172*^{DB} / 172L*^{DY} or MICR 351*^{DB} / 351L*^{DY} or BE 120*^{DB}

BIOL 275/275L, MICR 351/351L, or MICR 485/485L

MATH 251A-253A may be taken in place of MATH 241-244.

MICR 351/351L cannot be counted twice.

CHEM 171/171L or CHEM 181A/181L may be taken in place of CHEM 161/161L and CHEM 162/162L.

Programming Courses (3-4 credits)

EE 160 or EE 110

Biological Engineering Core Courses (36-37 credits)

All of the following:

CEE 270

CEE 271

CEE 320 or ME 322

EE 211

ME 311

BE 260

BE 350

BE 350L

BE 373

BE 437

BE 481

BE 482

Biological Engineering Elective Courses (12 credits)

12 credits of the following:

BE 405

BE 410

BE 411

BE 420

BE 431

BE 460

BE 470

CEE 355

ME 371

A minimum of 48 engineering credits must be completed. EE 160/110 does not count toward the total.

Students must take but not necessarily pass the NCEES Fundamentals of Engineering exam in the semester that they intend to graduate.

Notes

CTAHR Academic Advising Office:

Gilmore 1st floor; ctahradv@hawaii.edu

Appointments are required to see an advisor; please visit ctahradv.youcanbook.me/ to schedule an appointment.

CTAHR Office of Academic and Student Affairs:

Gilmore 210, (808) 956-8183/(808) 956-6733; www.ctahr.hawaii.edu/ugadvising

BE Faculty Advisor: Ryan Kurasaki; AEI 121; (808) 956-7259; rkurasak@hawaii.edu