# Bachelor of Science (BS) in Biological Engineering

**Admissions:** Open  
**Process:** Declaration  
**Min. Total Credits:** 128 (124 in core & major + 4 in electives)

## UHM General Education Core Requirements

**Foundations**
- FW
- FS
- FG (A / B / C)
- FG (A / B / C)

**Diversification**
- DA / DH / DL
- DA / DH / DL
- DB
- DP
- DY
- DS
- DS

*See degree, college and major requirements for courses that can also fulfill these.*

## UHM Graduation Requirements

**Focus**
- H
- E (300+)
- O (300+)
- W
- W
- W
- W (300+)
- W (300+)

**Hawaiian/Second Language**
- The Hawaiian or Second Language requirement is **not** required for students admitted to the Biological Engineering program.

**Credit Minimums**
- 120 total applicable
- 30 in residence at UHM
- 45 upper division (300+ level) credits

**Grade Point Average**
- 2.0 cumulative or higher (*Note: Other GPAs may be required*)
- Good academic standing

## College Requirements

### CTAHR Required Set of Interrelated Courses
- NREM 310
- Internship or capstone course (BE 481-482)

### Credit Minimums
- 124 total applicable

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*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:** 103  
**Min. exit GPA:** 2.0 in the major

### Requirements

#### Biological Engineering Required Basic Courses (51 credits)
- ECON 120*DS, 130*DS, or 131*DS  
- MATH 241*FS  
- MATH 242  
- MATH 243  
- MATH 244  
- PHYS 170*DP / PHYS 170*DY  
- PHYS 272*DP / PHYS 272*DY  
- CHEM 161*DP / CHEM 161*DY  
- CHEM 162*DP / CHEM 162*DY  
- CHEM 272*DP / CHEM 272*DY  
- BIOL 171*DB / BIOL 171*DY  
- BIOL 172*DB / BIOL 172*DY or MICR 351 / MICR 351L or BE 120*DY  
- 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.*

#### Engineering Core Courses (21 credits)
All of the following:  
- EE 160  
- EE 211  
- CEE 270  
- CEE 271  
- ME 311  
- ME 322 or CEE 320

#### Biological Engineering Core Courses (16 credits)
All of the following:  
- BE 260  
- BE 350 / BE 350L  
- BE 373  
- BE 481  
- BE 482

#### Biological Engineering Elective Courses (15 credits)
15 credits of the following:  
- BE 405  
- BE 410  
- BE 411  
- BE 420  
- BE 421  
- BE 431  
- BE 437  
- BE 460  
- BE 470  
- CEE 355  
- ME 371

### Notes

CTAHR Office of Academic and Student Affairs: Gilmore 210; (808) 956-8183; (808) 956-6733; acadaff@ctahr.hawaii.edu; www.ctahr.hawaii.edu  
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BE Undergraduate Advisor: Ryan Kurasaki; AEI 121; (808) 956-7259; rkurasak@hawaii.edu