## UHM General Education Core Requirements

**Foundations**
- FW: ENG 100, 100A, 190, ESL 100, or AMST 111
- FS: MATH 241
- FG (A / B / C)
- FG (A / B / C)

**Diversification**
- DA / DH / DL
- DA / DH / DL
- DB: BIOL 171
- DP: CHEM 161
- DY: CHEM 161L
- DS: ECON 120, 130, or 131
- 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
- 120 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:** 102-105  
**Min. exit GPA:** 2.0 in the major

### Requirements

#### Biological Engineering Required Basic Courses (51-52 credits)
- ECON 120<sup>*</sup>, 130<sup>*</sup>, or 131<sup>*</sup>  
- MATH 241<sup>*</sup>  
- MATH 242  
- MATH 243  
- MATH 244  
- PHYS 170<sup>*</sup> or 170L<sup>*</sup>  
- PHYS 272<sup>*</sup> or 272L<sup>*</sup>  
- CHEM 161<sup>*</sup> or 161L<sup>*</sup>  
- CHEM 162<sup>*</sup> or 162L<sup>*</sup>  
- CHEM 272<sup>*</sup> or 272L<sup>*</sup>  
- BIOL 171<sup>*</sup> or 171L<sup>*</sup>  
- BIOL 172<sup>*</sup> or MICR 351 or BE 120<sup>*</sup>  
- BIOL 275/L, MICR 351/L, 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/EE 110

#### Biological Engineering Core Courses (36-37 credits)
- All of the following:  
  - CEE 270  
  - ME 311  
  - BE 373  
  - CEE 271  
  - BE 260  
  - BE 437  
  - CEE 320 or ME 322  
  - BE 350  
  - BE 481  
  - EE 211  
  - BE 350L  
  - 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 1<sup>st</sup> 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

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