# Bachelor of Science (BS) in Computer Engineering

**Admissions:** Freshmen = Open / Transfer = Min. Criteria  
Process: Declaration  
Min. Total Credits: 125 (125 in core & major + 0 in electives)

## UHM General Education Core Requirements

### Foundations
- FW: ENG 100, 100A, 190, ESL 100, or AMST 111
- FS: MATH 241, 242
- FG (A/B/C)
- FG (A/B/C)

### Diversification
- DA: COMG 251
- DH/DL
- DB: not required for CE students.
- DP: CHEM 161, 162, PHYS 170, 272
- DY: CHEM 161L, 162L, PHYS 170L, 272L
- DS: ECON 120, 130, 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 College of Engineering.

## Degree Requirements

### Bachelor of Science Requirements
- Calculus I & II
- General Chemistry I with lab & II
- General Physics I & II with labs

### College Requirements

#### Admission Requirements for Transfer Students
- 3.0 cumulative GPA
- Completion of the following courses:
  - ENG 100*FW
  - MATH 241*FS
  - MATH 242
  - CHEM 161*DP / 161L*DY
  - CHEM 162*DP
  - PHYS 170*DP / 170L*DY

#### Math Requirements
- MATH 241*FS
- MATH 242
- MATH 243
- MATH 244

#### Natural Sciences Requirements
- CHEM 161*DP / 161L*DY
- CHEM 162*DP
- PHYS 170*DP / 170L*DY
- PHYS 272*DP / 272L*DY

#### Grade Point Average
- 2.0 GPA for all upper division (300+) mathematics, sciences, and engineering courses.

## 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

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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. Advising is mandatory every semester for Engineering students.
**Major Requirements for BS in Computer Engineering**

- **Admission:** Open
- **Application:** Required for students who do not apply straight into the program.
- **Min. major credits:** 71
- **Min. exit GPA:** 2.0 overall and 2.0 in upper division technical coursework.
- **Enrollment in EE courses** requires a C (not C-) grade or better, in all prerequisites.

### Requirements

#### Computer Engineering Core Courses (56 credits)
- EE 160
- EE 205
- EE 211
- EE 213
- EE 260
- EE 315
- EE 323 / EE 323L
- EE 324
- EE 342
- EE 361 / EE 361L
- EE 362
- EE 367 / EE 367L or ICS 311
- EE 371
- EE 467 or ICS 314
- EE 468
- EE 495
- MATH 307
- PHYS 274

#### Computer Engineering Projects (6 credits)
- EE 296 (or ENGR 296) (Sophomore standing)
- EE 396 (or ENGR 396) (Junior standing)
- EE 496

#### Engineering Breadth (3 credits; one of the following options)
- CEE 270, ME 311, or a 300+ level course from CEE, ME, OE, or BE.
- 300+ physical, biological or computer science courses (with department’s undergraduate curriculum committee approval).
- Technical Elective

#### Computer Engineering Technical Elective Courses (6 credits)
- Technical Elective
- Technical Elective

Minimum 6 credits of an EE 300+ course or ICS from:

### Notes

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