# 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)**  
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### 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**  
  - **MATH 241**  
  - **MATH 242**  
  - **CHEM 161**  
  - **PHYS 170**  
  - **PHYS 272**

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

### Natural Sciences Requirements
- **CHEM 161**  
- **CHEM 162**  
- **PHYS 170**  
- **PHYS 272**

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

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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- 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 468
- EE 495
- MATH 307
- PHYS 274

**Computer Engineering Projects (6 credits)**

- EE 296 (Sophomore standing)
- EE 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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