# Bachelor of Science (BS) in Electrical Engineering

## Admissions
- Freshmen: Open
- Transfer: Min. Criteria

## Process
- Declaration

## Min. Total Credits
122 (122 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 EE 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.

### 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

---

## 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*DJ

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

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

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

---

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 Electrical 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

Electrical Engineering Core Courses (38 credits)

- EE 110
- EE 211
- EE 213
- EE 260
- EE 315
- EE 323 / 323L
- EE 324
- EE 342
- EE 371
- EE 495
- PHYS 274
- MATH 307

Electrical Engineering Projects (6 credits)

- EE 296 (Sophomore standing)
- EE 396 (Junior standing)
- EE 496

Electrical Engineering Major Track (17 credits; choose one track below)

17 credits in one major track, which includes all courses in Group I and remaining courses from Group II.

<table>
<thead>
<tr>
<th>Group I (11 credits)</th>
<th>Group II (6 credits)</th>
</tr>
</thead>
<tbody>
<tr>
<td>EE 326 / 326L</td>
<td>EE 422/422L, 423, 425, 427</td>
</tr>
<tr>
<td>EE 327</td>
<td>EE 328/328L, 426</td>
</tr>
<tr>
<td>EE 372 / 372L</td>
<td>EE 470, 471, 473, 474, 475, 477</td>
</tr>
<tr>
<td>EE 435, 438</td>
<td>EE 435, 480</td>
</tr>
<tr>
<td>EE 470, 471, 473, 474, 475, 477</td>
<td></td>
</tr>
<tr>
<td>EE 435, 438</td>
<td>EE 470, 471, 473, 474, 475, 477</td>
</tr>
<tr>
<td>EE 435, 480</td>
<td>EE 470, 471, 473, 474, 475, 477</td>
</tr>
<tr>
<td>EE 470, 471, 473, 474, 475, 477</td>
<td></td>
</tr>
<tr>
<td>EE 435, 480</td>
<td>EE 470, 471, 473, 474, 475, 477</td>
</tr>
</tbody>
</table>

Electrical Engineering Technical Electives (7 credits)

7 additional credits from track lists, including 3 credits outside the major track and a 1 credit laboratory:

- Technical Elective
- Technical Elective
- Technical Elective Lab

EE 491 can also be used as a Technical Elective, but the track designation is determined on a case-by-case basis.

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).

Notes

College of Engineering: Holmes 250; (808) 956-8404; info@eng.hawaii.edu; www.eng.hawaii.edu
Director of Academic Affairs: Tep Dobry, PhD; Holmes 240A; (808) 956-8404; tep@hawaii.edu

Rev TD 3/16