# Bachelor of Science (BS) in Electrical Engineering

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

Min. Total Credits: 123 (123 in core & major + 0 in electives)

## UHM General Education Core Requirements

<table>
<thead>
<tr>
<th>Foundations</th>
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<tbody>
<tr>
<td>❑ FW</td>
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<tr>
<td>❑ FS</td>
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<tr>
<td>❑ FG (A / B / C)</td>
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<tr>
<td>❑ FG (A / B / C)</td>
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<table>
<thead>
<tr>
<th>Diversification</th>
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<tbody>
<tr>
<td>❑ DA / DH / DL</td>
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<tr>
<td>❑ DA / DH / DL</td>
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<tr>
<td>❑ DB not required for EE students.</td>
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<tr>
<td>❑ DP</td>
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<tr>
<td>❑ DY</td>
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<td>❑ DS</td>
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<td>❑ DS</td>
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*See degree, college and major requirements for courses that can also fulfill these.

## UHM Graduation Requirements

<table>
<thead>
<tr>
<th>Focus</th>
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<tbody>
<tr>
<td>❑ H</td>
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<tr>
<td>❑ E (300+)</td>
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<tr>
<td>❑ O (300+)</td>
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| ❑ W      |
| ❑ W      |
| ❑ W      |
| ❑ W (300+) |
| ❑ W (300+) |

<table>
<thead>
<tr>
<th>Hawaiian / Second Language</th>
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<tbody>
<tr>
<td>The Hawaiian or Second Language requirement is not required for students admitted to the College of Engineering.</td>
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</tbody>
</table>

## 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*DY

#### Can fulfill DA
- ❑ COMG 251

#### Can fulfill DS
- ❑ ECON 120, 130 or 131

### 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.

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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 Electrical Engineering

Admission: Open
Application: Required for students who do not apply straight into the program.
Min. major credits: 72
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 (39 credits)
- EE 160
- EE 211
- EE 213
- EE 260
- EE 315
- EE 323 / EE 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>
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<tbody>
<tr>
<td>Electro-Physics Track</td>
<td>EE 422/422L, 423, 425, 427</td>
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<tr>
<td>Systems Track</td>
<td>EE 328/328L, 426</td>
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<td>EE 473, 474, 475, 477</td>
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<tr>
<td>EE 326 / EE 326L</td>
<td>EE 344, 442, 446, 449</td>
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<tr>
<td>EE 327</td>
<td>EE 452, 453</td>
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<tr>
<td>EE 372 / EE 372L</td>
<td>EE 416, 417</td>
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</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


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 or biological 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

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