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

<table>
<thead>
<tr>
<th>Foundations</th>
</tr>
</thead>
<tbody>
<tr>
<td>FW ENG 100, 100A, 190, or ESL 100</td>
</tr>
<tr>
<td>FS MATH 241, 242</td>
</tr>
<tr>
<td>FG (A/B/C)</td>
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<tr>
<td>FG (A/B/C)</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Diversification</th>
</tr>
</thead>
<tbody>
<tr>
<td>DA COMG 251</td>
</tr>
<tr>
<td>DH / DL</td>
</tr>
<tr>
<td>DB not required for EE students.</td>
</tr>
<tr>
<td>DP CHEM 161, 162, PHYS 170, 272</td>
</tr>
<tr>
<td>DY CHEM 161L, 162L, PHYS 170L, 272L</td>
</tr>
<tr>
<td>DS ECON 120, 130, 131</td>
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<tr>
<td>DS</td>
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</tbody>
</table>

* 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>
</tr>
<tr>
<td>E (300+)</td>
</tr>
<tr>
<td>O (300+)</td>
</tr>
</tbody>
</table>

| W                  |
| W                  |
| W                  |
| W (300+)           |
| W (300+)           |

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

### Degree Requirements

<table>
<thead>
<tr>
<th>Bachelor of Science Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Calculus I &amp; II</td>
</tr>
<tr>
<td>• General Chemistry I with lab &amp; II</td>
</tr>
<tr>
<td>• General Physics I &amp; II with labs</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>College Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Admission Requirements for Transfer Students</td>
</tr>
<tr>
<td>• 3.0 cumulative GPA</td>
</tr>
<tr>
<td>• Completion of the following courses:</td>
</tr>
<tr>
<td>o ENG 100*W</td>
</tr>
<tr>
<td>o MATH 241*FS</td>
</tr>
<tr>
<td>o MATH 242</td>
</tr>
<tr>
<td>o CHEM 161<em>DP / 161L</em>DY</td>
</tr>
<tr>
<td>o CHEM 162*DP</td>
</tr>
<tr>
<td>o PHYS 170<em>DP / 170L</em>DY</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Math Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>• MATH 241*FS</td>
</tr>
<tr>
<td>• MATH 242</td>
</tr>
<tr>
<td>• MATH 243</td>
</tr>
<tr>
<td>• MATH 244</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Natural Sciences Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>• CHEM 161<em>DP / 161L</em>DT</td>
</tr>
<tr>
<td>• CHEM 162*DP</td>
</tr>
<tr>
<td>• PHYS 170<em>DP / 170L</em>DT</td>
</tr>
<tr>
<td>• PHYS 272<em>DP / 272L</em>DT</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Grade Point Average</th>
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<tbody>
<tr>
<td>• 2.0 GPA for all upper division (300+) mathematics, sciences, and engineering courses.</td>
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</tbody>
</table>

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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:** 7

**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 160 may be substituted for EE 110)
- 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>
</tr>
</thead>
<tbody>
<tr>
<td>☐ Electro-Physics Track</td>
<td>☐ EE 422/422L, 423, 425, 427</td>
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<td></td>
<td>☐ EE 328/328L, 426</td>
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<tr>
<td></td>
<td>☐ EE 470, 471, 473, 474, 475, 477</td>
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<td></td>
<td>☐ EE 435, 438</td>
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<td></td>
<td>☐ EE 480</td>
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<tr>
<td>☐ Systems Track</td>
<td>☐ EE 344, 442, 446, 449</td>
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<td></td>
<td>☐ EE 452, 453</td>
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<td></td>
<td>☐ EE 416, 417</td>
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<td>☐ EE 435</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

*List of possible Computer Engineering Technical Electives: EE 205, 361/361L, 366, 367/367L, 406, 461, 467, 468, 469*

*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

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