



University of Hawai'i at Mānoa
College of Engineering Program Sheet 2015-2016
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
<input type="checkbox"/> FW ENG 100, 100A, 190, or ESL 100
<input type="checkbox"/> FS MATH 241, 242
<input type="checkbox"/> FG (A / B / C)
<input type="checkbox"/> FG (A / B / C)
Diversification
<input type="checkbox"/> DA COMG 251
<input type="checkbox"/> DH / DL
<input type="checkbox"/> DB <i>not required for EE students.</i>
<input type="checkbox"/> DP CHEM 161, 162, PHYS 170, 272
<input type="checkbox"/> DY CHEM 161L, 162L, PHYS 170L, 272L
<input type="checkbox"/> DS ECON 120, 130, 131
<input type="checkbox"/> DS
<i>* See degree, college and major requirements for courses that can also fulfill these.</i>
UHM Graduation Requirements
Focus
<input type="checkbox"/> H
<input type="checkbox"/> E (300+)
<input type="checkbox"/> O (300+)
<input type="checkbox"/> W
<input type="checkbox"/> W
<input type="checkbox"/> W
<input type="checkbox"/> W (300+)
<input type="checkbox"/> W (300+)
Hawaiian / Second Language
<ul style="list-style-type: none"> The Hawaiian or Second Language requirement is not required for students admitted to the College of Engineering.
Credit Minimums
<ul style="list-style-type: none"> 120 total applicable 30 in residence at UHM 45 upper division (300+ level) credits
Grade Point Average
<ul style="list-style-type: none"> 2.0 cumulative or higher (<i>Note: Other GPAs may be required</i>) Good academic standing

Degree Requirements
Bachelor of Science Requirements
<ul style="list-style-type: none"> Calculus I & II General Chemistry I with lab & II General Physics I & II with labs
College Requirements
Admission Requirements for Transfer Students
<ul style="list-style-type: none"> 3.0 cumulative GPA Completion of the following courses: <ul style="list-style-type: none"> ENG 100*^{FW} MATH 241*^{FS} MATH 242 CHEM 161*^{DP} / 161L*^{DY} CHEM 162*^{DP} PHYS 170*^{DP} / 170L*^{DY}
Math Requirements
<input type="checkbox"/> MATH 241* ^{FS}
<input type="checkbox"/> MATH 242
<input type="checkbox"/> MATH 243
<input type="checkbox"/> MATH 244
Natural Sciences Requirements
<input type="checkbox"/> CHEM 161* ^{DP} / <input type="checkbox"/> 161L* ^{DY}
<input type="checkbox"/> CHEM 162* ^{DP}
<input type="checkbox"/> PHYS 170* ^{DP} / <input type="checkbox"/> 170L* ^{DY}
<input type="checkbox"/> PHYS 272* ^{DP} / <input type="checkbox"/> 272L* ^{DY}
Grade Point Average
<ul style="list-style-type: none"> 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 160 may be substituted for 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.

	Group I (11 credits)	Group II (6 credits)
<input type="checkbox"/> Electro-Physics Track	<ul style="list-style-type: none"> <input type="checkbox"/> EE 326 / <input type="checkbox"/> 326L <input type="checkbox"/> EE 327 <input type="checkbox"/> EE 372 / <input type="checkbox"/> 372L 	EE 422/422L, 423, 425, 427 EE 328/328L, 426 EE 470, 471, 473, 474, 475, 477 EE 435, 438 EE 480
<input type="checkbox"/> Systems Track	<ul style="list-style-type: none"> <input type="checkbox"/> EE 343 / <input type="checkbox"/> 343L <input type="checkbox"/> EE 351 / <input type="checkbox"/> 351L <input type="checkbox"/> EE 415 	EE 344, 442, 446, 449 EE 452, 453 EE 416, 417 EE 435

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
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