|  |
| --- |
| UHM General Education Core Requirements |
|  |
|  Foundations |
| * FW ENG 100, 100A, 190, ESL 100, or AMST 111
 |
| * FQ\* MATH 241
 |
| * FG (A / B / C)
 |
| * FG (A / B / C)
 |
| *\*Note: This requirement changed in Fall 2018. If you entered the UH System prior to that, please see your college/school advisor.* |
| 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
 |

*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.*

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| Degree Requirements |
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| **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\*FQ
 |
| * + MATH 242
 |
| * + CHEM 161\*DP / 161L\*DY
 |
| * + CHEM 162
 |
| * + PHYS 170 / 170L
 |
|  |
| **Can Fulfill DA** |
| * COMG 251
 |
|  |
| **Can Fulfill DS** |
| * ECON 120, 130, or 131
 |
|  |
| **Math Requirements** |
| * MATH 241\*FQ
 |
| * MATH 242
 |
| * MATH 243
 |
| * MATH 244
 |
|  |
| **Natural Sciences Requirements** |
| * CHEM 161\*DP / ❑ 161L\*DY
 |
| * CHEM 162
 |
| * PHYS 170 / ❑ 170L
 |
| * PHYS 272 / ❑ 272L
 |
|  |
| **Grade Point Average** |
| * 2.0 GPA for all upper division (300+) mathematics, sciences, and engineering courses.
 |
|  |

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| **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 course work. |
| Enrollment in EE courses requires a C (not C-) grade or better, in all prerequisites. |
|  |
| **Requirements** |
| **Electrical Engineering Core Courses (38-40 credits)** |
|  ❑ EE 110 or 160 ❑ EE 324 |
|  ❑ EE 211 ❑ EE 342 |
|  ❑ EE 213 ❑ EE 371 |
|  ❑ EE 260 ❑ EE 495 |
|  ❑ EE 315 ❑ PHYS 274 |
|  ❑ EE 323 / ❑ 323L ❑ MATH 307 or EE 345 |
|   |
| **Electrical Engineering Projects (6 credits)** |
|  ❑ EE 296 (or ENGR 296) (Sophomore standing) |
|  ❑ EE 396 (or ENGR 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)** |
| ❑ **Electro-Physics Track** | ❑ EE 326 / ❑ 326L❑ EE 327❑ EE 372 / ❑ 372L | EE 422/422L, 423, 425, 427EE 328/328L, 426EE 470, 471, 473, 474, 475, 477EE 435, 438EE 480 |
| ❑ **Systems Track** | ❑ EE 343 / ❑ 343L❑ EE 351 / ❑ 351L❑ EE 415 | EE 344, 442, 446, 449EE 452, 453EE 416, 417, 445EE 435 |
| **Biomedical Concentration:** All Group 1 courses in either Electro-Physics or Systems Track, plus two biomedical-related Group II courses and an Engineering Breadth course approved by the department’s undergraduate curriculum committee and listed on the EE website. EE 496 will be a biomedical project approved by the concentration coordinator. |
| **Energy Concentration:** All Group 1 courses in either Electro-Physics or Systems Track, plus two energy-related Group II courses and an Engineering Breadth course approved by the department’s undergraduate curriculum committee and listed on the EE website. EE 496 will be a biomedical project approved by the concentration coordinator. |
|  |
| **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 Computer Engineering Technical Electives: EE 205, 361/361L, 362, 366, 367/367L, 368, 369, 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 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.eduDirector of Academic Affairs: Jill Nakatsu; Holmes 250; (808) 956-8404; jillkoba@hawaii.edu |

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