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| 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** |
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| **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 |
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| **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, 427  EE 328/328L, 426  EE 470, 471, 473, 474, 475, 477  EE 435, 438  EE 480 |
| ❑ **Systems Track** | ❑ EE 343 / ❑ 343L  ❑ EE 351 / ❑ 351L  ❑ EE 415 | EE 344, 442, 446, 449  EE 452, 453  EE 416, 417, 445  EE 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.edu  Director of Academic Affairs: Jill Nakatsu; Holmes 250; (808) 956-8404; jillkoba@hawaii.edu | | |

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