University of Hawaiʻi at Mānoa
College of Engineering Program Sheet 2017-2018
Bachelor of Science (BS) in Computer Engineering
Admissions: Freshmen = Open / Transfer = Min. Criteria   Process: Declaration
Min. Total Credits: 125 (125 in core & major + 0 in electives)

UHM General Education Core Requirements

Foundations
- ❑ FW ENG 100, 100A, 190, ESL 100, or AMST 111
- ❑ FS MATH 241, 242
- ❑ FG (A / B / C)
- ❑ FG (A / B / C)

Diversification
- ❑ DA COMG 251
- ❑ DH / DL
- ❑ DB **not** required for CE 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

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]

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.

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 Computer 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 (not C-) grade or better, in all prerequisites.

Requirements

Computer Engineering Core Courses (56 credits)

- ❑ EE 160
- ❑ EE 205
- ❑ EE 211
- ❑ EE 213
- ❑ EE 260
- ❑ EE 315
- ❑ EE 323 / ❑ 323L
- ❑ EE 324
- ❑ EE 342
- ❑ EE 361 / ❑ 361L
- ❑ EE 362
- ❑ EE 367 / ❑ 367L or ICS 311
- ❑ EE 371
- ❑ EE 467 or ICS 314
- ❑ EE 468
- ❑ EE 495
- ❑ MATH 307
- ❑ PHYS 274

Computer Engineering Projects (6 credits)

- ❑ EE 296 (or ENGR 296) (Sophomore standing)
- ❑ EE 396 (or ENGR 396) (Junior standing)
- ❑ EE 496

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).
- Technical Elective

Computer Engineering Technical Elective Courses (6 credits)

- ❑ Technical Elective
- ❑ Technical Elective

Minimum 6 credits of an EE 300+ course or ICS from:

- ICS 313, 321, 351, 355, 414, 415, 421, 423, 424, 425, 431, 432, 441, 442, 451, 455, 461, 464, 465, 466, 469, 481

Notes

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