Computer Engineering – Class of 2023 (133 credits)

Hub Electives: must include all Hub areas below to fulfill degree requirements

1. One unit Philosophical Inquiry & Life’s Meanings (PLM)
2. One unit Aesthetic Exploration (AEX)
3. One unit Historical Consciousness (HCO)
4. One unit Social Inquiry (SO1 or SO2)
5. One unit Individual & Community (IIC)
6. First unit Global Citizenship & Intercultural Literacy (GCI)
7. Second unit Global Citizenship & Intercultural Literacy (GCI)
8. One unit Ethical Reasoning (ETR)

Total of at least 16 credits

Notes:
- Grey box = either semester
- = prerequisite; = corequisite
- Students planning to study abroad sophomore 2 should take EK 301 in sophomore 1.
- Students must complete 48 credits of upper-division program coursework (not including Hub or writing).
- See back for Hub Unit Legend

CAS MA 123 Calculus I QR2
CAS CH 131 Gen Chem Eng
ENG EK 100 Freshman Seminar
ENG EK 125 Program for Engs QR1; CRI
CAS WR 120 Writing Seminar FYW

CAS MA 124 Calculus II QR2
CAS PY 211 Physics I S1; QR1; CRT; TWC
ENG EK 131 Intro to Eng
ENG EK 103 Comp Lin Alg
CAS WR 15x Writing & Res WRI; RIL

CAS MA 225 Multivar Calculus QR2; CRT
CAS PY 212 Physics II S12; QR2; CRT; TWC
ENG EK 307 Electric Circuits
ENG EC 327 Intro Softw Eng
CAS MA 193 Intro Discr Math CRT

CAS MA 226 Diff Equ CRT
ENG EC 311 Intro Logic Des
ENG EK 301 Eng Mechanics CRT; CRI
ENG EK 210 Intro Eng Des TWC
ENG EC 330 Appl Alg for Eng

ENG EK 381 Prob, Stats & DS QR2; CRT
ENG EC 413 Comp Organiz
CE Core Elective
Hub Elective

EE Breadth Elective
Computer Eng Elective
CE Core Elective
Hub Elective

Computer Eng Elective
Technical Elective
ENG EC 463 Senior Design I WIN; DME; RIL
Hub Elective

Technical Elective
Technical Elective
ENG EC 464 Senior Design II WIN; OSC
Hub Elective

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6/10/2020
**Requirements**

Computer Engineering majors are required to complete a minimum of 133 credits as detailed on the Program Planning Sheet on the other side of this page.

**Hub Electives**

All students are required to complete a total of 26 Hub units. Eighteen of these Hub units are included in courses required for the CE BS degree. The remaining eight Hub units must be satisfied through four (or more) Hub Electives that incorporate the following seven Hub areas: Philosophical Inquiry; Aesthetic Exploration; Historical Consciousness; Social Inquiry; Individual in Community; Ethical Reasoning; Global Citizenship & Intercultural Literacy (2X). Boston University’s Course Search tool can be used to search for courses by School/College, number of credits and/or specific Hub units [https://www.bu.edu/phpbin/course-search/](https://www.bu.edu/phpbin/course-search/).

**Core Elective**

Computer Engineering majors complete two Core Elective courses from the following list:

- ENG EC 401 Signals and Systems
- ENG EC 410 Introduction to Electronics

**Computer Engineering Elective**

Computer Engineering majors complete two Computer Engineering Elective courses (8 credits) from the following list:

- ENG EC 440 Introduction to Operating Systems
- ENG EC 535 Introduction to Embedded Systems
- ENG EC 552 Computational Synthesis Biology
- ENG EC 558, Fundamentals of Cryptography
- ENG EC 571 Digital VLSI Circuit Design
- ENG EC 584 Cryptography
- ENG EC 520 Digital Image Processing
- ENG EC 527 Advanced Software Systems
- ENG EC 529 Software Engineering
- ENG EC 550 Natural Language Processing

**EE Breadth Elective**

Computer Engineering majors complete three Technical Elective courses (12 credits):

Any course listed as a Computer Engineering Elective.

**Technical Electives**

Approved Courses Outside Engineering that fulfill a Technical Elective:

- CAS AS 414 Solar and Space Physics
- CAS CS 440 Intro to Artificial Intelligence
- CAS CS 480 Introduction to Computer Graphics
- CAS CS 585 Image and Video Computing
- CAS MA 511 Introduction to Analysis

**Hub Unit Legend:**

- Q1R = Quantitative Reasoning 1
- Q2R = Quantitative Reasoning 2
- Si1 = Scientific Reasoning 1
- Si2 = Scientific Reasoning 2
- FYW = First-Year Writing Seminar
- WR = Writing, Research & Inquiry
- WIN = Writing-Intensive Course
- OSC = Oral and/or Signed Communication
- DME = Digital/Multimedia Expression
- CRT = Critical Thinking

**Notes:**

For each of the following sets of courses, only one course can be taken for credit in each set due to the overlap of material:

1. ENG ME 403, ENG ME 404, ENG EC 402, ENG BE 404
2. ENG ME 303, ENG BE 436
3. ENG EC 103, CAS MA 142, CAS MA 242
4. ENG BE 403, ENG EC 401
5. ENG ME 366*, ENG EK 381, CAS MA 381, CAS MA 581
6. ENG ME 460, ENG ME 560

*indicates course no longer offered.