Freshman 1
- CAS MA 123
  - Calculus I
  - QR2; CRT
  - 4
- CAS CH 131
  - Gen Chem Eng
  - SI1; QR1
  - 4
- ENG EK 100
  - Freshman Seminar
  - QR1; CRI
  - 4
- ENG EK 125
  - Program for Engs
  - QR1; CRI
  - 4
- CAS WR 120
  - Writing Seminar
  - FYW
  - 4

Freshman 2
- CAS MA 124
  - Calculus II
  - QR2; SI2; CRT
  - 4
- CAS PY 211
  - Physics I
  - SI1; QR1; CRT; TWC
  - 4
- ENG EK 131
  - Intro to Eng
  - 2
- ENG EK 103
  - Comp Lin Alg
  - 3
- CAS WR 15x
  - Writing & Res
  - WRI; RIL
  - 4

Sophomore 1
- CAS MA 225
  - Multivar Calculus
  - QR2; CRT
  - 4
- CAS PY 212
  - Physics II
  - SI2; QR2; CRT; TWC
  - 4
- ENG EK 307
  - Electric Circuits
  - 4
- ENG EC 327
  - Intro Softw Eng
  - 4
- CAS MA 193
  - Intro Discr Math
  - CRT
  - 2

Sophomore 2
- CAS MA 226
  - Diff Equ
  - CRT
  - 4
- ENG EC 311
  - Intro Logic Des
  - 4
- ENG EK 301
  - Eng Mechanics
  - CRT; CRI
  - 4
- ENG EK 210
  - Intro Eng Des
  - TWC
  - 2
- ENG EC 330
  - Appl Alg for Eng
  - 4

Junior 1
- ENG EK 381
  - Prob, Stats & DS
  - QR2; CRT
  - 4
- ENG EC 413
  - Comp Organiz
  - 4
- CE Core Elective
  - 4

Junior 2
- EE Breadth
  - 4
- Computer Eng
  - Elective
  - 4
- CE Core Elective
  - 4

Senior 1
- Computer Eng
  - Elective
  - 4
- Technical Elective
  - 4
- ENG EC 463
  - Senior Design I
  - WIN; DME; RIL
  - 4

Senior 2
- Technical Elective
  - 4
- Technical Elective
  - 4
- ENG EC 464
  - Senior Design II
  - WIN; OSC
  - 4

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
REQUIREMENTS

Computer Engineering (CE) 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). Search for courses that fulfill specific combinations of Hub units at: https://www.bu.edu/phbin/course-search/

CORE ELECTIVE

CE majors complete two Core Electives (8 credits) from the following list:

ENG EC 401 Signals and Systems  
ENG EC 410 Introduction to Electronics  
ENG EC 440 Introduction to Operating Systems  
ENG EC 444 Smart and Connected Systems

COMPUTER ENGINEERING ELECTIVE

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

ENG EC 440 Introduction to Operating Systems  
ENG EC 441 Intro to Computer Networking  
ENG EC 444 Smart & Connected Systems  
ENG EC 447 Software Design  
ENG EC 504 Advanced Data Structures  
ENG EC 512 Enterp Client-Server Softwr Sys Des  
ENG EC 513 Computer Architecture  
ENG EC 521 CyberSecurity

EE BREADTH ELECTIVE

CE majors complete one EE Breadth Elective course (4 credits) from the following list:

ENG EC 401 Signals and Systems  
ENG EC 410 Introduction to Electronics  
ENG EC 440 Introduction to Operating Systems  
ENG EC 444 Smart and Connected Systems

TECHNICAL ELECTIVES

(see Notes below) CE majors complete three Technical Elective courses (12 credits) from the following:

Any course listed as Computer Engineering Elective

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  
CAS MA 528 Introduction to Modern Geometry  
CAS MA 531 Computability and Logic  
CAS MA 541 Modern Algebra 1  
CAS MA 583 Introduction to Stochastic Processes  
CAS PY 313/314 Waves and Modern Physics

Hub Unit Legend:

QR1 = Quantitative Reasoning 1  
QR2 = Quantitative Reasoning 2  
S1 = Scientific Reasoning 1  
S2 = Scientific Reasoning 2  
FIW = First-Year Writing Seminar  
WRI = Writing, Research & Inquiry  
WIN = Writing-Intensive Course  
OSC = Oral and/or Signed Communication  
DME = Digital/Multimedia Expression  
CRT = Critical Thinking

Notes:

a) Any requirement satisfied via AP/IB can earn a maximum of one Hub unit and may require students to replace the Hub units missed.

b) Any requirement satisfied via transfer earns zero Hub units and may require students to replace the Hub units missed.

c) 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 ME 306, ENG BE 425  
(4) ENG EC 103, CAS MA 142, CAS MA 242  
(5) ENG BE 403, ENG EC 401  
(6) ENG EC 381, CAS MA 381, CAS MA 581

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