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 social science/humanities or writing).
REQUIREMENTS
Computer Engineering majors are required to complete a minimum of 132 credits as detailed on the Program Planning Sheet on the other side of this page.

GENERAL EDUCATION
For a list of specific courses that satisfy the Social Science, Humanities and General Education Elective, please go to the College of Engineering Undergraduate Requirements website at: http://www.bu.edu/eng/current-students/ugrad/requirements/.

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
- ENG EC 440 Introduction to Operating Systems
- ENG EC 441 Introduction to Computer Networking
- ENG EC 444 Smart and Connected Systems
- ENG EC 450 Microprocessors

COMPUTER ENGINEERING ELECTIVE
Computer Engineering majors complete two Computer Eng Elective courses (8 credits) from the following list:
- ENG EC 440 Introduction to Operating Systems
- ENG EC 444 Smart and Connected Systems
- ENG EC 450 Microprocessors
- ENG EC 447 Software Design
- ENG EC 504 Advanced Data Structures
- ENG EC 521 CyberSecurity
- ENG EC 527 High Perf Prog with Multicore & GPUs
- ENG EC 541 Computer Communications Networks
- ENG EC 547 Cybersecurity
- ENG EC 548 Network Physical World
- ENG EC 551 Adv Digital Design w/ Verilog & FPGA
- ENG EC 552 Digital VLSI Circuit Design

EE BREADTH ELECTIVE
Computer Engineering majors complete one EE Breadth Elective course from the following list:
- ENG EC 401 Signals and Systems
- ENG EC 402 Control Systems
- ENG EC 410 Intro to Electronics
- ENG EC 412 Analog Electronics
- ENG EC 414 Machine Learning
- ENG EC 415 Communications Systems
- ENG EC 416 Intro Digital Signal Processing
- ENG EC 417 Electric Energy Systems
- ENG EC 455 Electromagnetic Systems I
- ENG EC 460 Electromagnetic Systems II
- ENG EC 471 Physics of Semiconductor Devices
- ENG EC 501 System Theory
- ENG EC 503 Introduction to Learning from Data
- ENG EC 505 Stochastic Processes

TECHNICAL ELECTIVES
(see Notes below) Computer Engineering majors complete three Technical Elective courses (12 credits):
- ENG BE 209 and any ENG EC, BE, EK or ME course at the 300-level or above, except for 600-level courses, are acceptable as Technical Electives.

Pre-Approved Courses Outside Engineering that fulfill a Technical Elective:
- CAS AS 414 Solar and Space Physics
- CAS AS 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 PY 451 Quantum Physics 1
- CAS PY 452 Quantum Physics 2
- QST SI 480 The Business of Technology Innovation
- QST SI 482 Technology and its Commercialization

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 BE 402*, ENG EC 402, ENG BE 404
2. ENG ME 303, ENG BE 436
3. ENG EK 102*, ENG EK 103, CAS MA 142, CAS MA 242
4. ENG BE 401*, ENG BE 403, ENG EC 401
5. ENG ME 366, ENG EC 381*, ENG EK 381, ENG BE 200*
6. ENG ME 460, ENG ME 560
7. ENG EK 156*, ENG ME 358
8. ENG ME 357, ENG ME 359*

*indicates course no longer offered.