General Education Electives Checklist

1. CAS WR 100
2. CAS WR 150
3. One Social Science course
4. One Humanities course
5. One Social Science or Humanities course
6. One General Education elective course
7. Total of at least 24 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 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 Engineering Elective courses (8 credits) from the following list:

- ENG EC 440 Introduction to Operating Systems
- ENG EC 444 Smart and Connected Systems
- ENG EC 410 Introduction to Electronics
- ENG EC 447 Software Design
- ENG EC 450 Advanced Data Structures
- ENG EC 512 Enterp Client-Server Softwr Sys Des
- ENG EC 513 Computer Architecture
- ENG EC 521 CyberSecurity

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 Communication Systems
- ENG EC 416 Intro Digital Signal Processing
- ENG EC 417 Electric Energy Systems
- ENG EC 455 Electromagnetic Systems I
- ENG EC 456 Electromagnetic Systems II
- ENG EC 471 Physics of Semiconductor Devices
- ENG EC 501 Dynamic 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 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
- ENG MA 209, ENG MA 210, ENG MA 211
- ENG ME 403, ENG ME 404, ENG BE 402, ENG EC 402, ENG BE 404
- ENG ME 303, ENG BE 436
- ENG BE 102, ENG BE 103, CAS MA 142, CAS MA 242
- ENG BE 401, ENG BE 403, ENG EC 401
- ENG ME 366, ENG EC 381, ENG BE 200
- ENG ME 460, ENG ME 560
- ENG EK 156, ENG ME 358
- ENG ME 357, ENG ME 359

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:

- ENG ME 403, ENG ME 404, ENG BE 402*, ENG EC 402, ENG BE 404
- ENG ME 303, ENG BE 436
- ENG BE 102*, ENG BE 103, CAS MA 142, CAS MA 242
- ENG BE 401*, ENG BE 403, ENG EC 401
- ENG ME 366, ENG EC 381*, ENG EK 381, ENG BE 200*
- ENG ME 460, ENG ME 560
- ENG EK 156*, ENG ME 358
- ENG ME 357, ENG ME 359*

*indicates course no longer offered.