Computer Engineering – 2020 (132 credits)

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
- Students planning to study abroad sophomore 2 should take EK 301 in sophomore 1.
- Grey box = either semester
- Students must complete 48 credits of upper-division program coursework (not including social science/humanities or writing).
**REQUIREMENTS**

Students majoring in Computer Engineering are required to complete a minimum of 132 credits as detailed on the Program Planning Sheet on the other side of this form.

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

**CORE ELECTIVE** Computer Engineering majors complete 2 Core Electives 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 2 CE Elective courses from the following list:

- ENG EC 440 Introduction to Operating Systems
- ENG EC 444 Smart and Connected Systems
- ENG EC 447 Introduction to Computer Networking
- ENG EC 451 Software Design

**EE BREADTH ELECTIVE** Computer Engineering majors complete 1 EE Breadth Elective course:

Any ENG EC course 400-level or higher that is not on the above Computer Engineering Elective list, except ENG EC 450, Directed Studies (ENG EC 451), 600-level courses, and Special Topics courses (ENG EC 500 and ENG EC 700). Directed Studies (ENG EC 451), and Special Topics courses (ENG EC 500 and ENG EC 700) may satisfy the EE Breadth requirement by petition only.

**TECHNICAL ELECTIVES** (see Notes below) Computer Engineering majors complete 3 Technical Elective courses:

- 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 Intro to Computer Graphics
- CAS CS 585 Image and Video Computing
- CAS CS 611 Introduction to Analysis I
- CAS MA 528 Introduction to Modern Geometry
- CAS MA 531 Computability and Logic
- CAS MA 541 Modern Algebra I
- CAS MA 583 Introduction to Stochastic Processes

**Notes:**

For the following sets of courses, only 1 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
2. ENG ME 303, ENG BE 436
3. ENG ME 441, ENG ME 515
4. ENG ME 501, ENG EC 501
5. ENG ME 102, ENG ME 103, CAS MA 142, CAS MA 242
6. ENG ME 401, ENG EC 401
7. ENG ME 366, ENG EC 381, ENG ME 381, ENG BE 200
8. ENG ME 460, ENG ME 560

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