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/.

TRACK ELECTIVE

Computer Engineering majors complete 1 Track Elective from the following list:

- ENG EC 401  Signals and Systems
- ENG EC 410  Introduction to Electronics
- ENG EC 440  Introduction to Operating Systems

COMPUTER ENGINEERING ELECTIVE

Computer Engineering majors complete 2 CE Elective courses from the following list:

- ENG EC 421  CyberSecurity
- ENG EC 527  High Perf Programming with Multicore & GPU’s
- ENG EC 567  Cloud Computing
- ENG EC 535  Introduction to Embedded Systems
- ENG EC 541  Computer Communications Networks
- ENG EC 551  Advanced Digital Design with Verilog & FPGA

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 Directed Studies (ENG EC 451), 600-level courses and Special Topics courses (ENG EC 500 and ENG EC 700).

Directed Studies (ENG EC 451), Special Topics Courses (ENG EC 500), and all ENG EC 700-level courses 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 511  Introduction to Analysis I
  - CAS CS 583  Image and Video Computing
  - CAS MA 511  Introduction to Analysis I
  - CAS MA 531  Modern Algebra I
  - CAS MA 583  Introduction to Stochastic Processes
  - CAS MA 584  Fundamentals of Computing Systems
  - ENG EC 410  Introduction to Electronics
  - ENG EC 440  Introduction to Operating Systems
  - ENG EC 521  CyberSecurity
  - ENG EC 527  High Perf Programming with Multicore & GPU’s
  - ENG EC 541  Computer Communications Networks
  - ENG EC 551  Advanced Digital Design with Verilog & FPGA
  - ENG EC 571  Digital VLSI Circuit Design
  - ENG EC 587  Cloud Computing
  - ENG EC 597  Introduction to Embedded Systems
  - ENG EC 591  Networking the Physical World
  - ENG EC 599  Advanced Digital Design with Verilog & FPGA
  - ENG EC 701  Software Engineering
  - ENG EC 702  Networking the Physical World
  - ENG EC 703  Advanced Digital Design with Verilog & FPGA
  - ENG EC 704  Advanced Digital Design with Verilog & FPGA
  - ENG EC 705  Advanced Digital Design with Verilog & FPGA
  - ENG EC 706  Advanced Digital Design with Verilog & FPGA

DEGREE ENHANCEMENTS

CONCENTRATIONS

Students may choose to add a Concentration in Energy Technologies, Nanotechnology or Technology Innovation. Students completing a Minor in Mechanical Engineering may choose to add a concentration in Aerospace Engineering. A concentration requires 4 courses which can usually be used to satisfy courses within the major. Hence, a concentration can usually be completed without additional coursework. More information on concentrations and the specific requirements for each can be found at http://www.bu.edu/eng/academics/programs/concentrations/.

MINORS

Students may choose to add a minor in any one of the other degree programs or divisions (Materials Science & Engineering or Systems Engineering) within the College of Engineering. A minor consists of 5 courses, 2 of which may also be used to satisfy requirements for the major. Completing a Minor will add a minimum of 12 credits to the total for the degree. More information on minors and the specific requirements for each can be found at http://www.bu.edu/eng/academics/programs/minors/. Students may also pursue minors in other Colleges at Boston University. For more information, please contact the College of the minor.

DOUBLE MAJORS

Students may earn two engineering BS degrees. Double majors require a minimum of 168 credits and students must fulfill the requirements for each of the degree programs. See http://www.bu.edu/eng/academics/special-programs/ for more details.

OTHER WAYS TO ENHANCE YOUR DEGREE

Students have several additional options available to them including study abroad, research, and co-op/internship opportunities. For more information on these programs, please visit the College of Engineering Undergraduate website: http://www.bu.edu/eng/academics/.

Notes:

For the following 8 sets of courses, only 1 course can be taken for credit in each set due to the overlap of material:

1. ENG ME 305, ENG BE 420
2. ENG ME 403, ENG ME 404, ENG BE 402, ENG EC 402
3. ENG ME 303, ENG BE 430
4. ENG ME 411, ENG ME 515
5. ENG ME 501, ENG EC 501
6. ENG EK 102, CAS MA 142, CAS MA 242
7. ENG BE 401, ENG EC 401
8. ENG ME 366, ENG EC 381, ENG BE 200, ENG EK 500