FRESHMAN 1
- CAS MA 123 Calculus I (4)
- CAS CH 131 Principles of General Chemistry (4)
- ENG EK 100 Freshman Seminar (0)
- CAS WR 100 Writing Seminar (4)

FRESHMAN 2
- CAS MA 124 Calculus II (4)
- CAS PY 211 Physics I (4)
- ENG EK 130/131/132 Introduction to Engineering (4)
- CAS WR 150 Writing & Research Seminar (4)

SOPHOMORE 1
- CAS MA 225 Multivariate Calculus (4)
- CAS PY 212 Physics II (4)
- ENG EK 307 Electric Circuits (4)
- ENG EC 301 Engineering Mechanics I (4)

SOPHOMORE 2
- CAS MA 226 Differential Equations (4)
- ENG EC 311 Introduction to Logic Design (4)
- ENG EK 301 Engineering Mechanics I (4)
- ENG EK 302 or CAS MA 142 Introduction to Linear Algebra (2)

JUNIOR 1
- ENG EC 381 Probability Theory in ECE (4)
- ENG EC 413 Computer Organization (4)
- Track Elective (4)
- CAS MA 193 Introduction to Discrete Mathematics (4)

JUNIOR 2
- EE Breadth Elective Any ECE course 400 level or above not a CE Elective (4)
- Computer Engineering Elective (4)
- ENG EC 450 Microprocessors (4)

SENIOR 1
- ENG EC 463 Senior Design Project I (4) [Fall only]
- Computer Engineering Elective (4)
- ECE Elective Any ECE course 400 level or above (4)

SENIOR 2
- ENG EC 464 Senior Design Project II (4) [Spring only]
- Technical Elective (4)
- Technical Elective (4)

Extra Courses

* Students who plan to study abroad in sophomore 2 should take EK 301 in Sophomore 1

GRADUATION REQUIREMENT: 132 credits
ENG Credit Requirement: 48 credits/Upper Division Program courses completed at Boston University
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 440 Introduction to Operating Systems
ENG EC 441 Introduction to Computer Networking
ENG EC 447 Software Design
ENG EC 504 Advanced Data Structures
ENG EC 512 Enterprise Client-Server Software Systems
ENG EC 513 Computer Architecture

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) 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.

ECE GENERAL ELECTIVE

Computer Engineering Majors complete 1 ECE General Elective:

Any ENG EC course 400 level or above that has not been used for any of the other elective requirements for CE majors.

TECHNICAL ELECTIVES (see Notes below)

Computer Engineering majors complete 2 Technical Elective courses:

ENG BE 209 and any ENG EC, BE, EK or ME course at the 300-level or above 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 I
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 MA 585 Introduction to Embedded Systems
CAS MA 587 Advanced Digital Design with Verilog & FPGA
CAS MA 591 Digital VLSI Circuit Design
CAS PY 451 Quantum Physics 1
CAS PY 452 Quantum Physics 2
CAS PY 541 Computer Communications Networks
CAS PY 542 Concepts of Programming Languages
CAS PY 547 High Perf Programming with Multicore & GPUs
CSM SI 480 The Business of Technology Innovation
CSM SI 482 Technology and its Commercialization

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 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 436
(4) ENG ME 441, 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

5/6/15