NAME: ____________________________ U.I.D.# ____________________________ DATE: ____________________________

FRESHMAN 1
- CAS MA 123 Calculus I (4)
- CAS CH 131 Principles of General Chemistry (4)
- ENG EK 100 Freshman Seminar (0)
- Either semester
  - ENG EK 131/132 Intro to Linear Algebra (4)
- CAS WR 100 Writing Seminar (4)

FRESHMAN 2
- CAS MA 124 Calculus II (4)
- CAS PY 211 Physics I (4)
- CAS MA 125 Multivariate Calculus (4)
- CAS PY 212 Physics II (4)
- ENG EK 102 Intro to Linear Algebra (4)
- Either semester
  - ENG EK 127/128 Engineering Computation/++ (4)
- CAS WR 150 Writing & Research Seminar (4)

SOPHOMORE 1
- CAS MA 225 Multivariate Calculus (4)
- CAS PY 211 Physics I (4)
- CAS MA 226 Differential Equations (4)
- ENG EC 311 Introduction to Logic Design (4)
- ENG EK 307 Electric Circuits (4)
- Either semester
  - ENG EK 210 Intro to Engineering Design (2)
- ENG EC 327 Introduction to Software Engineering (4)
- ENG EC 330 Applied Algorithms for Engineers (4)

SOPHOMORE 2
- CAS MA 226 Differential Equations (4)
- ENG EC 311 Introduction to Logic Design (4)
- ENG EK 307 Electric Circuits (4)
- Track Elective
  - ENG EC 401, ENG EC 410 or ENG EC 440 (2)
  - ENG EC 413 Computer Organization (4)
- Either semester
  - ENG EC 210 Intro to Engineering Design (2)
- Social Science Elective (4)

JUNIOR 1
- ENG EC 381 Probability Theory in ECE (4)
- ENG EC 413 Computer Organization (4)
- Technical Elective
  - ENG EC 450 Microprocessors (4)
- EE Breadth Elective
  - Any CE course 400 level or above not a CE Elective (4)

JUNIOR 2
- Computer Engineering Elective (4)
- EE Breadth Elective
  - Any CE course 400 level or above not a CE Elective (4)
- ENG EC 413 Computer Organization (4)
- ENG EC 450 Microprocessors (4)
- Humanities Elective (4)

SENIOR 1
- ENG EC 463 Senior Design Project I (4) [Fall only]
- ENG EC 464 Senior Design Project II (4) [Spring only]
- Computer Engineering Elective (4)
- Technical Elective (4)
- ECE Elective
  - Any ECE course 400 level or above (4)
- Social Sci/Humanities (4)

SENIOR 2
- Technical Elective (4)
- Technical Elective (4)
- General Education Elective (4)
- Extra Courses

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

**Graduation Requirement**: 132 credits
**Engineering Credit Requirement**: 48 credits/Upper Division Program courses completed at Boston University

**General Education Requirements Checklist**
- 1. CAS WR 100
- 2. CAS WR 150
- 3. 1 course in Social Science
- 4. 1 course in Humanities
- 5. 1 course SS or HUM
- 6. 1 course General Education Elective
- 7. Total of at least 24 credits

CE 18 9/16/14
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
- ENG EC 513 Computer Architecture
- ENG EC 527 High Perf Programming with Multicore & GPUs
- ENG EC 535 Introduction to Embedded Systems
- ENG EC 541 Computer Communications Networks
- ENG EC 551 Advanced Digital Design with Verilog & FPGA
- ENG EC 571 Digital VLSI Circuit 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 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)

- 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 441 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
- ENG EC 305 Signals and Systems
- ENG EC 310 Introduction to Electronic Circuits
- ENG EC 371 Digital VLSI Design
- ENG EC 381 Computer Architecture
- ENG EC 401 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
- ENG EC 527 High Perf Programming with Multicore & GPUs
- ENG EC 535 Introduction to Embedded Systems
- ENG EC 541 Computer Communications Networks
- ENG EC 551 Advanced Digital Design with Verilog & FPGA
- ENG EC 571 Digital VLSI Circuit Design

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