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 130/131/132 Introduction to Engineering (4)
- CAS WR 100 Writing Seminar (4)
- CAS MA 124 Calculus II (4)
- CAS PY 211 Physics I (4)
- ENG EK 127/128 Engineering Computation/++ (4)
- CAS WR 150 Writing & Research Seminar (4)

FRESHMAN 2
- CAS MA 225 Multivariate Calculus (4)
- CAS PY 212 Physics II (4)
- ENG EK 307 Electric Circuits (4)
- Either semester *
- ENG EC 327 Introduction to Software Engineering (4)
- 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)
- ENG EC 330 Applied Algorithms for Engineers (4)

SOPHOMORE 1
- CAS MA 226 Differential Equations (4)
- ENG EC 311 Introduction to Logic Design (4)
- ENG EK 301 Engineering Mechanics I (4)
- Either semester *
- ENG EC 327 Introduction to Software Engineering (4)
- CAS MA 193 Introduction to Discrete Mathematics (4)

SOPHOMORE 2
- ENG EC 381 Probability Theory in ECE (4)
- ENG EC 413 Computer Organization (4)
- Track Elective ENG EC 410 or ENG EC 440 (4)
- Social Science Elective (4)
- EE Breadth Elective Any ECE course 400 level or above not a CE Elective (4)
- Computer Engineering Elective (4)
- ENG EC 450 Microprocessors (4)
- Humanities Elective (4)

JUNIOR 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)

JUNIOR 2
- ENG EC 464 Senior Design Project II (4) [Spring only]
- Technical Elective (4)
- Technical Elective (4)
- Social Sci/Humanities (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)
- 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

ENG 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
**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/).

**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
- ENG EC 513: Computer Architecture

**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 System Design
- ENG EC 513: Computer Architecture
- ENG EC 512: Enterprise Client-Server Software System Design
- 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 AS 440: Introduction to Artificial Intelligence
  - ENG BE 209: Signals and Systems
  - ENG EC 381: Introduction to Modern Geometry
  - ENG EC 401: Introduction to Electronics
  - ENG EC 402: Introduction to Computer Networking
  - 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 System Design
  - ENG EC 513: Computer Architecture
  - ENG EC 512: Enterprise Client-Server Software System Design
  - ENG EC 513: Computer Architecture
  - CAS MA 528: Introduction to Modern Geometry
  - CAS MA 531: Computer Algebra
  - CAS MA 541: Modern Algebra 1
  - ENG EC 381: Introduction to Modern Geometry
  - ENG EC 401: Introduction to Electronics
  - ENG EC 402: Introduction to Computer Networking
  - 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 System Design
  - ENG EC 513: Computer Architecture
  - ENG EC 512: Enterprise Client-Server Software System Design
  - ENG EC 513: Computer Architecture
  - CAS PY 451: Quantum Physics 1
  - CAS PY 542: Quantum Physics 2
  - SMG SI 480: The Business of Technology Innovation
  - SMG 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/](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/](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/](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/](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 EC 102, ENG MA 142, ENG MA 242
7. ENG BE 401, ENG EC 401
8. ENG ME 366, ENG EC 381, ENG BE 200, ENG EC 500

5/6/15