NAME: ________________________________  U.I.D. #  U  DATE: __________________

**FRESHMAN 1**
- CAS MA 123  Calculus I  (4)
- CAS CH 131  Principles of General Chemistry  (4)
- ENG EK 100  Freshman Seminar  (0)
- ENG EK 107  Engineering Computation/++  (4)
- CAS WR 100  Writing Seminar  (4)

**FRESHMAN 2**
- CAS MA 124  Calculus II  (4)
- CAS PY 211  Physics I  (4)
- ENG EK 131  Intro to ENG  (2)
- ENG EK 102  Intro Linear Algebra  (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 EK 210  Intro ENG Design  (2)
- Social Science Elective  (4)

**SOPHOMORE 2**
- CAS MA 226  Differential Equations  (4)
- CAS PY 313  Waves & Modern Physics  (4)
- ENG EK 301  Engineering Mechanics I  (4)
- Humanities Elective  (4)

**JUNIOR 1**
- ENG EC 401  Signals and Systems  (4)
- ENG EC 410  Introduction to Electronics  (4)
- ENG EC 311  Introduction to Logic Design  (4)
- ENG EC 455  Introduction to Electromagnetics  (4)

**JUNIOR 2**
- Systems Elective  (4)
- Electronics Elective  List on Reverse  (4)
- ENG EC 381  Probability Theory in ECE  (4)
- Electrophysics Elective  List on Reverse  (4)

**SENIOR 1**
- ENG EC 463  Senior Design Project I  (4) [Fall Only]
- Computer Elective  (4)
- Technical Elective  (4)
- Social Science/ Humanities Elective  (4)
- General Education Elective  (4)

**SENIOR 2**
- ENG EC 464  Senior Design Project II  (4) [Spring Only]
- 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

**Key:**
- Math
- Natural Science
- Engineering Common
- General Education
- Electrical Required
- Electives

**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

**Prereq. =    Coreq. =    **

Graduation Requirement: 130 credits

Eng Credit Requirement: 48 credits/Upper Division Program courses completed at Boston University

05/12/17
REQUIREMENTS
Students majoring in Electrical Engineering are required to complete a minimum of 130 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/.

ELECTRONICS ELECTIVES

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG EC 412</td>
<td>Analog Electronics</td>
</tr>
<tr>
<td>ENG EC 417</td>
<td>Electric Energy Systems</td>
</tr>
<tr>
<td>ENG EC 450</td>
<td>Microprocessors</td>
</tr>
<tr>
<td>ENG EC 470</td>
<td>Sensors in Space</td>
</tr>
</tbody>
</table>

ELECTROPHYSICS ELECTIVES

<table>
<thead>
<tr>
<th>Course Code</th>
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</tr>
</thead>
<tbody>
<tr>
<td>ENG EC 417</td>
<td>Electric Energy Systems</td>
</tr>
<tr>
<td>ENG EC 456</td>
<td>Electromagnetic Systems II</td>
</tr>
<tr>
<td>ENG EC 470</td>
<td>Sensors in Space</td>
</tr>
<tr>
<td>ENG EC 471</td>
<td>Physics of Semiconductor Devices</td>
</tr>
</tbody>
</table>

TECHNICAL ELECTIVES

ENG EC 412 Analog Electronics  ENG EC 571 Digital VLSI Circuit Design
ENG EC 417 Electric Energy Systems  ENG EC 580 Modern Active Circuit Design
ENG EC 450 Microprocessors  ENG EC 582 RF/Analog IC Design
ENG EC 470 Sensors in Space  ENG EC 583 Power Electronics for Energy Systems

ELECTRICAL ENGINEERING

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 departments 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 credits 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 162 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