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 127/128 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 102/CAS MA 142 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 301 Engineering Mechanics I (4)

SOPHOMORE 2
CAS MA 226 Differential Equations (4)
CAS PY 313 Waves & Modern Physics (4)
ENG EC 301 Introduction to Logic Design (4)
ENG EC 455 Introduction to Electromagnetics (4)

JUNIOR 1
ENG EC 401 Signals and Systems (4)
ENG EC 410 Introduction to Electronics (4)
ENG EC 311 Introduction to Engineering Mechanics I (4)
ENG EC 402, EC 415, or EC 416 Electrophysics Elective List on Reverse (4)

JUNIOR 2
Systems Elective ENG EC 402, EC 415, or EC 416 (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 ENG EC 327, EC 413, or EC 441 (4)
Technical Elective (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

Key:
- Math
- Natural Science
- Engineering Common
- General Education
- Biomedical Required
- Electives
- Grey Box = Either Semester

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

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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
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

ELECTROPHYSICS ELECTIVES
ENG EC 583 Power Electronics for Energy Systems
ENG EC 417 Electric Energy Systems
ENG EC 456 Electromagnetic Systems II ENG EC 500 F1 Electrophysics*
ENG EC 470 Sensors in Space ENG EC 562 Engineering Optics
ENG EC 471 Physics of Semiconductor Devices ENG EC 481 Intro to Nanotechnology
ENG EC 591 Photonics Laboratory I
ENG EK 481 Intro to Nanotechnology
ENG EK 482 Technology Commercialization

TECHNICAL ELECTIVES
(see Notes below)
Electrical Engineering majors complete 3 Technical Elective courses.
Acceptable courses include all EC courses and ENG BE 209.
Additionally, all ENG BE, EK and ME courses at the 300-level and above are acceptable as Technical Electives.

Pre-Approved Courses Outside Engineering that fulfill a Technical Elective:
CAS AS 414 Solar and Space Physics CAS MA 528 Intro to Modern Geometry CAS PY 451 Quantum Physics 1
CAS CS 440 Intro to Artificial Intelligence CAS MA 531 Computability and Logic CAS PY 452 Quantum Physics 2
CAS CS 480 Intro to Computer Graphics CAS MA 541 Modern Algebra 1 SMG SI 480 Business of Technology Innovation
CAS CS 585 Image and Video Computing CAS MA 583 Intro to Stochastic Processes SMG SI 482 Technology Commercialization
CAS MA 511 Introduction to Analysis I

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/.

*Electrophysics: EC 500 F1 cannot substitute EK 481 (exc. Nanotech Concentration)

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 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

9/30/16