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 125 Programming for Engineers (4)
- CAS WR 100 Writing Seminar (4)

FRESHMAN 2
- CAS MA 124 Calculus II (4)
- CAS PY 211 Physics I (4)
- ENG EK 131/132 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 EC 327 Intro to Software Engineering (4)
- CAS WR 100 Writing Seminar (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 EC 210 Intro to ENG Design (2)
- ENG EC 330 Applied Algorithm for Engineers (4)

JUNIOR 1
- ENG EC 381 Probability Theory in ECE (4)
- ENG EC 413 Computer Organization (4)
- Track Elective ENG EC 401, EC 410, or EC 440 (4)
- ENG EC 193 Intro to Discrete Math (2)
- Social Science Elective (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)
- Humanities Elective (4)

SENIOR 1
- ENG EC 463 Senior Design Project I (4) [Fall Only]
- Computer Engineering Elective (4)
- Technical Elective (4)
- Social Science/ Humanities (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
- Computer 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
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 Computer Engineering 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 521 CyberSecurity
- ENG EC 527 High-Performance Programming with Multicore & GPU's
- ENG EC 528 Cloud Computing
- ENG EC 535 Introduction to Embedded Systems
- ENG EC 541 Computer Communications Networks
- ENG EC 544 Networking the Physical World
- ENG EC 551 Advanced Digital Design with Verilog & FPGA

EE BREADTH ELECTIVE

Computer Engineering majors complete 1 EE Breadth Elective course:

- ENG EC 401 Signals and Systems
- ENG EC 410 Introduction to Electronics
- ENG EC 440 Introduction to Operating Systems

TECHNICAL ELECTIVES

Computer Engineering majors complete 3 Technical Elective courses:

- ENG BE 209
- Any ENG EC, BE, EK, or ME course at the 300-level or above, except for 600-level courses 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 Intro to Computer Graphics
- CAS CS 585 Image and Video Computing
- CAS MA 511 Introduction to Analysis I
- CAS MA 528 Cloud Computing
- CAS MA 531 Modern Algebra I
- CAS MA 532 Introduction to Modern Geometry
- CAS MA 533 Introduction to Stochastic Processes
- CAS MA 534 Fundamentals of Computing Systems
- CAS MA 541 Modern Algebra II
- CAS MA 542 Quantum Physics 1
- CAS MA 544 Networking the Physical World
- CAS MA 551 Advanced Digital Design with Verilog & FPGA
- CAS MA 553 Concepts of Programming Languages
- CAS MA 554 Concepts of Programming Languages
- CAS MA 555 Concepts of Programming Languages
- CAS MA 556 Concepts of Programming Languages
- CAS MA 557 Concepts of Programming Languages
- CAS MA 558 Concepts of Programming Languages
- CAS MA 559 Concepts of Programming Languages
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- CAS MA 562 Concepts of Programming Languages
- CAS MA 563 Concepts of Programming Languages
- CAS MA 564 Concepts of Programming Languages
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- CAS MA 566 Concepts of Programming Languages
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- CAS MA 571 Concepts of Programming Languages
- CAS MA 572 Concepts of Programming Languages
- CAS MA 573 Concepts of Programming Languages
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- CAS MA 579 Concepts of Programming Languages
- CAS MA 580 Concepts of Programming Languages
- CAS MA 581 Concepts of Programming Languages
- CAS MA 582 Concepts of Programming Languages
- CAS MA 583 Concepts of Programming Languages
- CAS MA 584 Concepts of Programming Languages
- CAS MA 585 Concepts of Programming Languages
- CAS MA 586 Concepts of Programming Languages
- CAS MA 587 Concepts of Programming Languages
- CAS MA 588 Concepts of Programming Languages
- CAS MA 589 Concepts of Programming Languages
- CAS MA 590 Concepts of Programming Languages
- CAS MA 591 Concepts of Programming Languages

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 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 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

8/30/17