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

FRESHMAN 1
- CAS MA 123 Calculus I (4)

FRESHMAN 2
- CAS MA 124 Calculus II (4)

SOPHOMORE 1
- CAS MA 225 Multivariate Calculus (4)
- CAS PY 211 Physics I (4)

SOPHOMORE 2
- CAS MA 226 Differential Equations (4)
- CAS PY 212 Physics II (4)

JUNIOR 1
- ENG ME 304 Energy and Thermodynamics (4)
- ENG ME 303 Fluid Mechanics (4)

JUNIOR 2
- ENG ME 306 Materials Science (4)
- ENG ME 419 Heat Transfer (4)

SENIOR 1
- Advanced Elective (4)
- Advanced Elective (4)
- ENG ME 310 Instrumentation and Theory of Experiments (4)

SENIOR 2
- Advanced Elective (4)
- Advanced Elective (4)
- ENG ME 461 Mechanical Engineering Capstone Experience (4) [Spring Only]

Extra Courses
- ( )
- ( )
- ( )
- ( )

Prereq = —— Coreq = ——

* Students who plan to study abroad in Sophomore 2 should take EK 301 in Sophomore 1
** Students who have successfully completed or have AP credit for both CAS CH 101 and CAS CH 102 have satisfied the Chemistry and Natural Science Elective requirements
*** ME 310 can be taken in Junior 2, Senior 1, or Senior 2, as long as all prerequisites are met

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

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

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

REQUIREMENTS
Mechanical Engineering majors are required to complete a minimum of 136 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/.

NATURAL SCIENCE ELECTIVE
The Natural Science Elective for Mechanical Engineering majors can be satisfied by:

- Anthropology (AN) – CAS AN 102 – Human Biology, Behavior, and Evolution
- Biology (BI) – CAS BI 106 – Human Anatomy  CAS BI 108 – Biology II  CAS BI 109 – Human Infectious Disease: AIDs to Tuberculosis
- Biomedical Engineering (BE) - ENG BE 209 – Principles of Molecular Cell Biology & Biotechnology
- Chemistry (CH) - Any 200-level or higher course with a lab
- Physics (PY) - QST PY 231 – The Physics In Music  CAS PY 313 – Waves & Modern Physics
- Additionally, any other 300-level or above Natural Science courses may be acceptable by petition.

ADVANCED ELECTIVES
Mechanical Engineering majors complete 4 Advanced Elective courses. Acceptable courses include all engineering (ENG) courses 300 level or above including ENG ME 452 and ENG ME 457, as long as there is not significant overlap with other courses being used for the degree (See Notes below). Acceptable courses outside of ENG include:

- CAS AS 414 – Solar and Space Physics
- QST SI 480 – The Business of Technology Innovation
- QST SI 482 – Technology and its Commercialization
- CAS PY 231 – The Physics In Music

Additionally other 300-level or above Mathematics and Natural Science courses may be acceptable by petition.

DEGREE ENHANCEMENTS

CONCENTRATIONS
Students majoring in Mechanical Engineering may choose to add a Concentration in Aerospace Engineering, Manufacturing Engineering, Energy Technologies, Nanotechnology or Technology Innovation. A concentration requires 4 courses which can usually be used to satisfy Advanced Elective requirements (and in some cases General Education requirements). Hence, a concentration can usually be completed without requiring additional coursework. For information on concentrations go to: 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 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 9 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 ME 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 EN 300 (9) ENG ME 359, ENG ME 407

4/21/17