Freshman 1
- CAS MA 123 Calculus I 4
- ENG EK 100 Freshman Seminar
- CAS CH 131 Principles of General Chemistry 4
- 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 131/2 Intro to ENG 2
- ENG EK 102 Intro Lin Alg 2
- CAS WR 150 Writing & Res 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 Eng Mechanics 4
- ENG ME 359 Intro to CAD 2

Sophomore 2
- CAS MA 226 Differential Equations 4
- Natural Sci Elective 4
- ENG EK 301 Eng Mechanics 4
- ENG EK 301 Eng Mechanics II 4
- ENG EK 210 Intro ENG Des 2

Junior 1
- ENG ME 304 Energy and Thermodynamics 4
- ENG ME 303 Fluid Mechanics 4
- ENG ME 305 Mechanics of Materials 4
- ENG EK 302 Engineering Mechanics II 4
- ENG ME 316 Des & Manuf 2

Junior 2
- ENG ME 306 Materials Science 4
- ENG ME 419 Heat Transfer 4
- ENG ME 302 Engineering Mechanics II 4
- ENG ME 359 Intro to CAD 2
- ENG ME 360 Product Design 4

Senior 1
- Advanced Elective 4
- Advanced Elective 4
- ENG ME 301 Eng Mechanics 4
- ENG ME 310 Measurement & Instrumentation 4
- ENG ME 460 Senior Design I 4

Senior 2
- Advanced Elective 4
- Advanced Elective 4
- ENG ME 310 Measurement & Instrumentation 4
- ENG ME 461 Senior Design II 4
- Gen Ed Elective 4

Notes
- Students planning to study abroad sophomore 2 should take EK 301 in sophomore 1.
- Students who have successfully completed or who have AP credit for both CAS CH 101 and CAS CH102 have satisfied the Chemistry and Natural Science Elective requirements.
- Grey box: = either semester
- Students must complete 48 credits of upper-division program coursework (not including social science/humanities or writing).

General Education Electives Checklist
- □ 1. CAS WR 100
- □ 2. CAS WR 150
- □ 3. One Social Science course
- □ 4. One Humanities course
- □ 5. One Social Science or Humanities course
- □ 6. One General Education elective course
- □ 7. Total of at least 24 credits
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 105 – Introductory Bio for Health Sciences, CAS BI 107 – Biology I, CAS BI 114 – Human Infectious Disease:
  - CAS BI 106 – Human Anatomy
  - CAS BI 108 – Biology II
- Biomedical Engineering (BE) - ENG BE 209 – Principles of Molecular Cell Biology & Biotechnology
- Chemistry (CH) - Any 200-level or higher course with a lab
  - CAS ES 107 – Introduction to Climate and Earth System Science
- Physics (PY) - CAS 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

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

Notes:
For the following sets of courses, only 1 course can be taken for credit in each set due to the overlap of material:

1. ENG ME 403, ENG ME 404, ENG BE 402, ENG EC 402
2. ENG ME 303, ENG BE 436
3. ENG ME 441, ENG ME 515
4. ENG ME 501, ENG EC 501
5. ENG EK 102, ENG EK 103, CAS MA 142, CAS MA 242
6. ENG BE 401, ENG BE 403, ENG EC 401
7. ENG ME 366, ENG EC 381, ENG BE 200, ENG EK 381
8. ENG ME 460, ENG ME 560