



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
- Many courses are offered every semester – order can be rearranged as long as prereqs fulfilled.
- 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

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 page.

GENERAL EDUCATION COURSES

For a list of specific courses that satisfy the Social Science, Humanities and 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 ELECTIVES Mechanical Engineering majors complete one Natural Science Elective from the following list:

Biomedical Engineering (BE):

ENG BE 209 Principles of Molecular Cell Biology & Biotechnology

Astronomy (AS):

Any 200-level or higher course

Any 100-level course that includes a lab

Biology (BI):

Any 200-level or higher course

Any 100-level course that includes a lab

Neuroscience (NE):

All

Chemistry (CH):

Any 200-level or higher course

Physics (PY):

CAS PY 231- The Physics in Music

Any 300-level or higher course

Earth & Environment (ES)

CAS ES 101 Dynamic Earth

CAS ES 105 Environmental Earth Sciences

CAS ES 140 Earthquakes, Volcanoes, Natural Disasters

CAS ES 142 Intro Beach & Shoreline Processes

CAS ES 144 Oceanography

CAS ES 222 Mineralogy

The following GE courses:

CAS GE 101 Natural Environments: The Atmosphere

CAS GE 104 – Natural Environ: Physical Landscape

CAS GE 110 – Our Changing Planet

CAS GE 302 – Remote Sensing of the Environment

CAS GE 307 – Biogeography

CAS GE 310 – Climate & the Environment

CAS GE 365 – Intro Geographic Information Systems

CAS GE 440 – Digital Image Proc & Remote Sensing

CAS GE 445 – Physical Models in Remote Sensing

CAS GE 448 – Remote Sensing of Vegetation

CAS GE 456 – Terrestrial Ecosystems & Carbon Cycle

CAS GE 483 – Geodynamics II: Fluids & Fluid Transport

ADVANCED ELECTIVES Mechanical Engineering majors complete four Advanced Elective courses (16 credits).

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 & Space Physics

QST SI 480 The Business of Technology Innovation

QST SI 482 Technology and its Commercialization

Additionally, other 300-level or higher courses from the following programs may be acceptable by petition: MA, BI, CH, PY, ES, GE, NE, and AS.

Notes:

For each of the following seven sets of courses, only **one** 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 501, ENG EC 501
- (4) ENG EK 102, ENG EK 103, CAS MA 142, CAS MA 242
- (5) ENG BE 401, ENG BE 403, ENG EC 401
- (6) ENG ME 366, ENG EC 381, ENG EK 481, ENG BE 200
- (7) ENG ME 460, ENG ME 560