Mechanical Engineering – Class of 2022 (135 credits)

Hub Electives: must include all Hub areas below to fulfill degree requirements

- 1. One unit Philosophical Inquiry & Life’s Meanings (PLM)
- 2. One unit Aesthetic Exploration (AEX)
- 3. One unit Historical Consciousness (HCO)
- 4. One unit Social Inquiry (SO1 or SO2)
- 5. One unit Individual & Community (IIC)
- 6. First unit Global Citizenship & Intercultural Literacy (GCI)
- 7. Second unit Global Citizenship & Intercultural Literacy (GCI)
- 8. One unit Ethical Reasoning

- Total of at least 16 credits

Notes
- Grey box = either semester
- = prerequisite; = corequisite
- Students planning to study abroad sophomore 2 should take EK 301 in sophomore 1.
- 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 Hub or writing).
- See back for Hub Unit Legend
REQUIREMENTS

Mechanical Engineering majors are required to complete a minimum of 135 credits as detailed on the Program Planning Sheet on the other side of this page.

HUB ELECTIVES

All students are required to complete a total of 26 Hub units. Eighteen of these Hub units are included in courses required for the ME BS degree. The remaining eight Hub units must be satisfied through four (or more) Hub Electives that incorporate the following seven Hub areas: Philosophical Inquiry; Aesthetic Exploration; Historical Consciousness; Social Inquiry; Individual in Community; Ethical Reasoning; Global Citizenship & Intercultural Literacy (2X). Lists of courses that fulfill combinations of these Hub units are at: www.bu.edu/eng/current-students/ugrad/requirements/hub-electives/

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). A minimum of 2 engineering (ENG) courses at or above the 300 level are required.

The following courses are also acceptable:
- CAS AS 414 – Solar and Space Physics
- CAS PY 313/314 — Waves and Modern Physics
- CAS PY 321 & 322 – Thermal Physics (2 cr) & Quantum Physics (2 cr)
- ENG BE 200 — Principles of Molecular Cell Biology and Biotechnology
- 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.

Hub Unit Legend:
- QR1 = Quantitative Reasoning 1
- QR2 = Quantitative Reasoning 2
- SI1 = Scientific Reasoning 1
- SI2 = Scientific Reasoning 2
- FYW = First-Year Writing Seminar
- WRI = Writing, Research & Inquiry
- WIN = Writing-Intensive Course
- OSC = Oral and/or Signed Communication
- DME = Digital/Multimedia Expression
- CRT = Critical Thinking
- RIL = Research and Information Literacy
- TWC = Teamwork/Collaboration
- CRI = Creativity/Innovation

Notes:
For each of the following 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 EC 402, ENG BE 404
(2) ENG ME 403, ENG ME 404
(3) ENG EK 102*, ENG EK 103, CAS MA 142, CAS MA 242
(4) ENG BE 403, ENG EC 401
(5) ENG ME 366*, ENG EC 381*, ENG EK 381, CAS MA 381, CAS MA 581
(6) ENG ME 460, ENG ME 560
(7) ENG EK 156*, ENG ME 358
(8) ENG ME 357, ENG ME 359*

*indicates course no longer offered