Academic Advising Reference for Fall 2020
also available at http://www.bu.edu/eng/current-students/ugrad/advising/

BU Hub (for non-transfer students, classes of 2022 and 2023 only): (contact Carole Dutchka, caroled@bu.edu 617-353-6447)
Students must complete the following 8 Hub units: Philosophical Inquiry and Life’s Meanings, Aesthetic Exploration, Historical Consciousness, The Individual in Community, Global Citizenship and Intercultural Literacy (x2), Ethical Reasoning, and Social Inquiry. Students will usually use the four Hub Electives for this purpose, and should aim to complete 2 distinct units from this list per Hub elective, (consult the full list of possible Hub combinations for help selecting courses). Advanced Placement classes will earn one Hub unit at most. Students and faculty advisors need to pay close attention to the units earned to assist with future course selection. Transfer courses do not carry Hub units, therefore students who fulfill curricular requirements outside of BU may become deficient in Hub units awarded by those classes. See the course mapping sheet for more information.

Gen Ed requirements: these will continue as normal for current juniors, seniors and transfer students.

Academic Status (contact Undergraduate Programs Office, engineering@bu.edu 617-353-6447)
• Good Standing requires a 2.00 semester and cumulative GPA with a min. of 12 academic credits completed
• Students struggling should seek support from the Undergraduate Programs Office, ERB 107
• ENG Tutoring is offered Mondays – Thursdays 5pm – 11pm and Sundays 7pm – 10pm. FREE

Tuition overload waiver: Engineering students who enroll for 19-20 credits for the Fall 2020 semester will have the associated fees waived if they meet either of the following requirements: Senior class standing OR Cumulative GPA of 3.00 or higher. Students who do not meet the criteria will be charged at the per credit rate.

Study Abroad options and course scheduling (contact Kat Mor, kmor@bu.edu 617-353-6447)
• Second semester sophomore year; seamless integration w/ ENG programs (80+ participate each year):
  o Applications: deadline Oct 1 of sophomore year.
  o ENG Programs: Dresden, Germany; Grenoble, France; Madrid, Spain and Sydney, Australia.
  o Students take MA226, EK307 and either BE209, EC 311, ME 304 or PY314 (PY313 w/out Hub units), dependent on location; all taught in English. Also required is a course about the host country. In Europe students take language of host country, in Australia an internship (does not count for degree).
  o Students can earn up to 4 Hub units (3 in Sydney) including 2 x GCI (one in Sydney), IIC and either SO1 or HCO depending on location.
• Class planning for studying abroad in the sophomore year:
  o Taking MA226 or EK307 at BU will make students ineligible for the sophomore abroad programs.
  o Students should complete PY212, EK301, MA225 and EK210 before going abroad. If MA225 has already been completed students should move on to EK381, not MA226.
    ▪ BME: follow the program planning sheet as it stands (taking EK301 at BU and EK307 abroad).
    ▪ CE: take EC 330 in fall of sophomore or junior year; take EK301 at BU and EK307 abroad.
    ▪ EE: follow the program planning sheet as it stands (taking EK301 at BU and EK307 abroad).
    ▪ ME: take both EK210 and ME357 by the end of fall of sophomore year; this may mean pushing a Hub Elective down to the senior year. Take EK301 at BU and EK307 abroad.
• Junior year, semester varies by program; direct enroll in courses at host site:
  o Application deadlines: March 15 for fall, Sept. 15/Oct. 1 for spring. Check by location.
  o ENG Programs: Auckland, Dublin, Singapore, Sydney; student must create program & identify courses (advanced approval required); more difficult to arrange than sophomore programs; requires significant student initiative. Instructions available online.

Minors (contact Stefan Scott, engrec@bu.edu 617-353-6447)
Require at least 5 courses (20 credits), some will require more; and at least 12 credits must be unique to the minor (will add a min. of 12 credits to degree requirements). Apply for a minor online no later than Oct. 1 of senior year.
• ENG Minors: Biomedical, Computer, Electrical, Mechanical, Materials Science & Engineering, Systems Engineering
• Non-ENG Minors: available in CAS, CFA, COM, QST, SAR, WED.
**Concentrations** (contact Stefan Scott, engrec@bu.edu 617-353-6447)

Require 4 courses, which can usually be used to satisfy elective requirements for the major, and therefore do not typically require additional courses. Also require an experiential component (lab research, directed study, senior design project OR Co-Op/Internship). **At least one required concentration course must be completed before engaging an internship as an approved experiential component.**

**Apply for a concentration** online no later than May 1 of the junior year.

- Aerospace (ME majors & minors) (contact: Ray Nagem)
- Energy Technologies (all ENG majors) (contact: Uday Pal)
- Manufacturing (all ENG majors) (contact: Gerald Fine)
- Nanotechnology (all ENG majors) (contact: Keith Brown, brownka@bu.edu)
- Technology Innovation (all ENG majors) (contact: Tom Little)
- NAE Grand Challenge Scholars Program (all ENG majors, classes 2022 & 2023) (contact: Tom Little)

**Special Programs** (contact Ruth Elias, ruthelia@bu.edu 617-353-6647)

- **Boston University Dual Degree Program** (ENG and non-ENG Degrees)
  - 3.00 GPA required; sophomore standing or first semester junior; minimum 144 credits required; student must work out details with both degree programs prior to acceptance
  - Must complete requirements for both degrees before either degree will be awarded (or drop one)
- **Double Major within the College of Engineering** (2 ENG degrees)
  - 3.00 GPA required; sophomore standing (32 credits); minimum 160 credits required
  - Must complete requirements for both degrees before either degree will be awarded (or drop one)
- **Early Admission to the Master’s Programs** (contact Kirstie Miller, kimiller@bu.edu)
  - Opportunity for qualified seniors to apply for early admission to these graduate programs
  - Master’s degree can be completed in one year or less.
  - Students should apply in September for early admission.
- **Modular Medical/Dental Integrated Curriculum (MMEDIC)**
  - Second semester sophomore standing, BME only; 8-year program: 4yrs B.S., 4 yrs. MD BUSM
  - Introduces some pre-clinical subjects into the undergraduate program
  - Competitive; non-admitted students can still pursue traditional Medical School application
- **Pre-Med Requirements/CAS Pre-Professional Advising**
  - Usually requires additional coursework.
  - CH 101 and CH 102 must be taken in freshman year. CH 203 and CH 204 are taken in sophomore year (moving WR 150 and a Hub elective down in the schedule), both courses count as Professional Electives towards the BME degree.
- **STEM Educator-Engineer Program (STEEP)** (Contact Wynter Duncanson, wynterjd@bu.edu)
  - BS in ENG & Master’s in Education; graduate with two degrees in 5 years.
  - Recommend participating in TISP and applying for summer internships teaching engineering.
  - Receive licensure to teach middle and high school math or physics in 44 states.

**Accommodations:** (Contact Disability and Access Services (DAS), 617-353-3658)

DAS can assist students who need access, accommodations, or deaf and hard of hearing services.

**Career Development**

The Career Development Office assists students in finding co-op/internships and permanent employment. Offers resume critiques, cover letter help, mock interviews, career fairs and workshops.

- Freshmen: Get familiar with services; draft resumes; attend career fairs.
- Sophomores: Revise resumes, plan for a summer research or internship. Attend career fairs.
- Juniors: Refine resume; explore graduate school and/or full-time employment options. Identify faculty for recommendations, prepare for GREs. Attend career fairs; search for summer internships.
- Seniors: Apply to graduate school and/or begin full-time employment job search. Visit the CDO for mock interviews. Practice technically-based interview questions with professor/mentor

*for Fall 2020*