ENG EK 210, Intro to ENG Design
Required for all sophomores. Freshmen who are planning to go abroad in the sophomore year should plan to take EK 210 in fall of sophomore year. Program specific requirements should be taken as follows: BME – take BE 200 in spring of freshman year. CE – take EC 327 in spring of freshman year. ME – take EK 156 in spring of freshman year.

Pre-Med Requirements
CH 101 and CH 102 must be taken in freshman year. CH 203 and CH 204 are taken in sophomore year (in place of WR 150 and Social Science/Humanities), both courses count as Professional Electives towards the BME degree.

Academic Status (contact Undergraduate Programs Office, engineering@bu.edu, 617-353-6447)
- Good Standing requires a 2.00 semester and cumulative GPA with a minimum of 12 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

Study Abroad (contact Ruthie Jean, ruthiej@bu.edu, 617-353-6447)
- Second semester sophomore year: seamless integration w/ ENG programs (70+ participate each year):
  - Applications: deadline Oct 2.
  - ENG Programs: Dresden, Germany; Grenoble, France; Madrid, Spain and Sydney, Australia
    Students take MA226, EK307 and either BE209 or PY313; all taught in English. In Europe, language of host country (gen ed elective), and course about host country required. In Australia, culture course (social science) and internship required (internship does not count for degree).
- Junior year, semester varies by program; direct enroll in courses at host site:
  - Applications: deadlines March 15 or Oct 2 (Sept. 15th for Singapore and Istanbul)
  - ENG Programs: Auckland, Dublin, Istanbul, Singapore, Sydney; student must create program & identify courses (advanced approval required); more difficult to arrange than sophomore programs; requires significant student initiative.

Career Development www.bu.edu/eng/careers
The Career Development Office assists students in finding co-op/internships and permanent employment. Offers resume critiques, cover letter help, mock interviews, and career fairs and workshops.
- Freshman – get familiar with services; draft resumes; attend career fairs;
- Sophomore – revise resumes, plan for a summer research or internship. Attend career fairs.
- Junior – Continue to 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.
- Senior – 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/mentors.

Minors and Concentrations (contact Stefan Scott, scottsa@bu.edu, 617-353-6447)
- Minors (requires a minimum of 3 additional courses): http://www.bu.edu/eng/academics/programs/minors/
  Minors require at least 5 courses; only 2 can be double counted toward major. A minor will ADD at least 12 CREDITS to degree requirements. Apply for a minor no later than Oct. 1 of the senior year (in ERB 107).
  - ENG Minors: Biomedical, Computer, Electrical, Mechanical, Materials Science & Engineering, Systems Engineering
  - Non-ENG Minors: available in CAS, CFA, COM, SMG (SMG minor Bus. Admin. = 7 courses)
    Details of these minors available through ENG Records Office, ERB 107
- Concentrations (usually do not require additional courses):
  http://www.bu.edu/eng/academics/programs/concentrations/
  Concentrations require 4 courses which can usually be used to satisfy elective requirements for the major; additionally require an experiential component (lab research, directed study, senior design project OR Co-Op/Internship). Apply for a concentration no later than May. 1 of the junior year (in ERB 107).
  - Aerospace (ME majors & minors)
  - Energy Technologies (all majors)
  - Manufacturing (all majors)
  - Nanotechnology (all majors)
  - Technology Innovation (all majors)
Concentration Courses to be offered Spring 2018:

**Nanotechnology** (contact: Keith Brown, brownka@bu.edu)
- CAS PY 313 – Elem Modern Phy
- ENG BE 437 – Nano in Liv Sys
- ENG EC 471 – Phy Semicond Dev
- ENG EK 481 – Nanomat/Tech
- ENG EC 777 – Nano-Optics

**ENG EK 424 – Thermodynamics**

**Energy Technologies** (contact: Uday Pal, upal@bu.edu)
- CAS GE 304 – Sustainable Dev
- CAS GE 309 – Envir Analysis
- ENG EC 573 – Solar Energy Sys
- ENG EC 583 – Pow Elec En Sys

**ENG ME 543 – Sustain Pow Sys**

**Manufacturing Engineering** (contact: Gerald Fine, gjfine@bu.edu)
- SMG SI 480 – Bus Tech Innov
- ENG EK 409 – ENG Economy
- ENG ME 420 – Supply Chn ENG

**ENG ME 507 – Proc Mod & Contrl**

**Technology Innovation** (contact: Tom Little, tdcl@bu.edu)
- ENG BE 428 – Dev&Diaogn Desgn
- QST SI 445 – Small Bus Mgt
- QST SI 453 – Sustain Pow Sys
- QST SI 471 – Intnl Entprnshp
- QST SI 482 – Tech Comrclztn

**Aerospace Engineering** (Mechanical majors & minors; contact: Ray Nagem, nagem@bu.edu)
- CAS AS 414 – Solar and Space Physics
- ENG ME 403 – Atmos Flt Mech

**ENG ME 406 – Dynamics of Spaceflight**

**Special Programs** (contact Carole Dutchka, caroled@bu.edu, 617-353-6647) [http://www.bu.edu/eng/academics/special-programs](http://www.bu.edu/eng/academics/special-programs)

- **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 course requirements for **both** degrees before **either** degree will be awarded

- **Double Major within the College of Engineering** (2 ENG degrees, different departments)
  - 3.00 GPA required; sophomore standing (32 credits); minimum 168 credits required
  - Must complete course requirements for **both** degrees before **either** degree will be awarded

- **Early Admission to the Master’s Programs**
  - Opportunity for qualified students to apply for early admission to these graduate programs
  - Both degrees can be completed in 5 years or less; Seniors apply in September of senior year & will be informed of decision before end of the semester.

- **Engineering/Medical Integrated Curriculum (ENGMEDIC)**
  - Second semester sophomore standing, BME only; 8 year program: 4yrs B.S., 4 yrs. MD BUSM
  - Continuation into BUSM contingent upon successful completion of all program requirements
  - Introduces some pre-clinical subjects into the undergraduate program
  - Competitive; non-admitted students can still pursue traditional Medical School application
  - Pre-Med / Pre-Law (CAS Pre-Professional Advising, 100 Bay State Road, 4th Floor, 3-4866, preprof@bu.edu). Usually requires additional coursework.

- **STEM Educator-Engineer Program (STEEP)** (BS in ENG and Master’s in Education)
  - Two SED courses (2 cr) fulfill general education electives. Plan as early as possible.
  - Blend ENG and SED courses and 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.