Academic Advising Reference for Fall 2016
also available at http://www.bu.edu/eng/current-students/ugrad/advising/ (updated regularly)

Linear Algebra Reminder:
ENG EK 102 B1, C1, D1 and E1 are half-semester sections for incoming freshmen (Class of 2020), or rising sophomores (Class of 2019) who are required to complete ENG EK 210 and didn’t take EK 102 in AY ‘15-‘16.

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; ERB 105. FREE www.bu.edu/eng/current-students/ugrad/tutoring/

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 1.
  - ENG Programs: Dresden, Germany; Grenoble, France, Madrid, Spain, and Sydney, Australia; Students take MA226, EK307 and either BE209 or PY313; all taught in English. Also 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).
*All programs subject to sufficient enrollment numbers.
- Junior year, semester varies by program; direct enroll in courses at host site:
  - Applications: deadlines March 15 or Oct 1 (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 to provide recommendations, prepare for GREs. Attend career fairs and search for industry-related summer internships. Work on writing cover letters.
- 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 Engineering Records, engrec@bu.edu, 617-353-6447)
- Minors (requires a minimum of 3 additional courses): http://www.bu.edu/eng/academics/programs/minors/
  - 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)  - Manufacturing (all majors – new)
  - Energy Technologies (all majors)  - Nanotechnology (all majors)
  - Technology Innovation (all majors)

for Fall 2016
Concentration Courses to be offered Fall 2016:

**Nanotechnology** (contact: Anna Swan, swan@bu.edu)
- CAS PY 313 – Elem Modern Phy
- ENG BE 505 – Molclr Bioeng I
- ENG BE 526 – Fund. Biomaterials
- ENG BE 564 – Biophys Lg Mole
- ENG EK 481 – Nanomat/Tech
- ENG EC 560 – Intro Photonics

**Energy Technologies** (contact: Uday Pal, upal@bu.edu)
- CAS GE 304 – Sustainable Dev
- CAS GE 420 – Envir Pol Method
- ENG EC 417 – Elec Energy Systems

**Technology Innovation** (contact: Tom Little, tdcl@bu.edu)
- SMG SI 480 – Bus Tech Innov
- ENG EK 409 – ENG Economy
- ENG ME 408 – Aircft Perf/Des

**Aerospace Engineering** (Mechanical majors & minors; contact: Ray Nagem, nagem@bu.edu)
- ENG ME 408 – Aircft Perf/Des

**Manufacturing Engineering** (contact: Gerald Fine, gffine@bu.edu)
- SMG SI 480 – Bus Tech Innov
- ENG EK 409 – ENG Economy
- ENG ME 345 – Automation Mfg
- ENG ME 502 – Invention

**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 Consideration for the Master of Engineering (MEng) and Master of Science (MS)Degree Programs (contact: Kirstie Miller, kimiller@bu.edu, ERB 114)
    - Opportunity for qualified students to apply for early admission to these graduate programs. End of junior year GPA of 3.4 or higher qualifies for “automatic admission”.
    - Master’s degree can be completed in one year or less.
    - Apply by September 21 of their senior year and will receive a decision by October 5th.
  - Modular/Medical Integrated Curriculum (MMEDIC)
    - 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)
    - 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.

*for Fall 2016*