To: Bioengineering Undergraduates, all years  
From: Andrew Tsourkas, PhD, Undergraduate Curriculum Chair  
Re: FALL 2014

Dear Students:

As you prepare for FALL 2014 advance registration, here are some important notes and various new options. Be sure to look at your class’s curriculum posted on the BE website for options not explicit in the eCPG.

**Fall Electives:**
Course syllabi are posted at:  
http://www.be.seas.upenn.edu/current-students/undergraduates/courses.php

**Submatriculation:**
Sophomores and Juniors, BSE and BAS: Consider submatriculation into a master’s degree. You need to enroll between the end of the sophomore and the beginning of your senior year. Please look for more information here: http://www.seas.upenn.edu/undergraduate/degrees/submatriculation.php

For the BE/MSE curriculum and links to the Biotechnology program and other information look here:  
http://www.upenn.edu/biotech/. Students who are strong academically will be considered for admission into the submatriculation program, and can start taking courses towards their graduate degree.

**Independent Research/Design Courses:**
Juniors and Seniors, if you plan on taking an elective independent research or design course (BE 490) you need to secure a project and advisor before the start of classes.

BE 490 can be a 1-semester project or the 1st semester of a 2-semester project. The designation BE 492 is reserved for the second semester of the same project, or a second one-semester project.

You are allowed 2 SEAS independent study or research courses of any number towards degree requirements, in addition to the required BE 495/6 (BSE) and BE 497/8 (BAS).

Advisors in BE 099 and all BE 49x courses must be Penn faculty members in any department or school, including the Hospital of the University of Pennsylvania, Children's Hospital and the Veterans Administration Medical Center. BE 099 is reserved for freshman and sophomore students. Permission is needed from the instructor in order to have a permit issued.

**Important notes for all Bioengineering Students:**
1. If you have AP credits for chemistry or biology and wish to replace the labs with another science or engineering course, it must be a bioengineering, other engineering, or biomedical science including chemistry, organic chemistry, biochemistry and biology courses. Some BIBB courses, Psychology, Astronomy, Geology, Oceanography, and other non-biomedical science courses can be taken only in free electives or in SSH if they qualify in that category.
2. BE juniors and seniors cannot take 100-level SEAS courses to fulfill Engineering or Technical Electives requirements. Exceptions will be made for courses specifically required in dual major/degree and formal minor or certificate programs. EAS 105, CSE 110, 120 & 121 are exempt from this policy. Students planning a career in engineering design can petition to take MEAM 101 (CAD/CAM) in their junior or senior years.
3. Bioengineering students can take cross-listed courses only in their SEAS designation. For example, OPIM 515 = MEAM 515 can be taken only as MEAM 515.
4. Students with AP credit who take the equivalent course at Penn forfeit the AP credit. This applies to CHEM 091, PHYS 093/094, and MATH 104/114. This means that if you take or get credit for CHEM 101 & 102 at Penn, you can NOT use CHEM 091 ANYWHERE on your BE worksheet, not even in free electives.
5. Junior Curriculum: BE 305 will be offered in Spring 2014. BE 306 will be offered in Fall 2014. Please review sample curriculum links for other updates to the curriculum:
6. Effective Summer 2013, EAS 105 (required course) has been changed to ENGR 105. The worksheet will still retain the EAS 105 designation, however, no red “X” will appear when you assign the course to your worksheet.
7. Study Abroad: Plan to meet with the Bioengineering Study Abroad advisor, Dr. Dan Bogen. Also, you MUST SUBMIT THE REQUIRED MATERIALS AND OBTAIN YOUR ADVISORS APPROVAL/REGISTRATION SIGNOFF. Otherwise, your study abroad procedures will not go through.