

Date: March 2, 2020

To: Prof. Tsu-Chin Tsao
Chair, HSSEAS Faculty Executive Committee

From: Song Li, Chair, Department of Bioengineering
Jacob Schmidt, Undergraduate Vice Chair and Chair of Undergraduate Bioengineering Curriculum Committee

Re: Changes to the B.S. Bioengineering Curriculum

The Department of Bioengineering proposes the following revision to the undergraduate Bioengineering BS degree program, effective Fall Quarter 2020.

1. Replacement of LS3 with LS 7A for the prerequisites for many BE courses. Life Sciences recently revamped the introductory LS series and LS 3 is no longer offered and LS 7A is the effective replacement. This would be for BE 104, 106, 131, 147, 170, 172, 180.
2. Eliminate the "Restricted electives" category for our undergraduate electives. This was created to assist us with ABET compliance (restricted electives are more math-based) following our 2013 ABET review. The 2019 ABET evaluator had no issues with requiring more math-based electives and so to reduce student confusion and administrative burden we would like to eliminate the "Restricted electives" category.
3. Requiring BE 175 (Machine learning & data-driven modeling in bioengineering), and reduce by one the number of required electives (from 7 to 6) to keep our total unit count the same. Requiring BE 175 will add more computational depth to the BE curriculum and also give the students hands-on experience with practical applications of machine learning, statistics, and data analysis.

Date Change is to be Effective
Fall 2020

Department Contact
Daphne-Jane Dizon
5121 Engineering V, 160010
e-mail: djdizon@seas.ucla.edu
phone: 310-794-5072