



November 2, 2016

To: Undergraduate Studies Committee
University Faculty Council

RE: Revisions to the Biomedical Engineering Curriculum-Neural Engineering and Imaging Tracks

The Department of Biomedical Engineering offers three areas of specialization (or tracks) for undergraduate students: cell and tissue engineering, medical imaging, and neural engineering. The department will implement the following revision to the undergraduate curriculum effective spring 2017:

- Replacement of the Fluids Laboratory (BME 320) course, currently required for students in all three tracks, with a new laboratory course titled Bioelectronics Laboratory (BME 325), which will be required only for students pursuing the neural engineering and medical imaging tracks. Students in cell & tissue engineering will continue to take the BME Fluids Laboratory (BME 320) course, which addresses essential core engineering lab concepts relevant to this track area.

The BME faculty decided to implement this revision because it was deemed that the Bioelectronics Laboratory (BME 325) is a more relevant lab course for BME undergraduates pursuing neural engineering or medical imaging. BME 325 is specifically designed to address engineering laboratory concepts that are essential to these track areas. These concepts include: (1) practical hands-on design, construction and testing of electric and electronic circuitry for biomedical applications, and (2) basic bioelectronics concepts with emphasis on their relevance to the design of systems that can be used for clinical and basic scientific research.

This revision has been proposed by the BME faculty including the BME undergraduate curriculum committee, and voted for approval by the BME Tenured and Category One Faculty. This revision does not require a change in credit hours of the neural engineering and medical engineering BME undergraduate curricula.

Sincerely,

John G. Georgiadis, Ph.D.