TO: The Faculty of the College of Engineering

FROM: The Faculty of the Weldon School of Biomedical Engineering

RE: Change to Undergraduate-Level Course BME 30100 requisites

The faculty of the School of Biomedical Engineering has approved the following change in requisites of the course listed below. This action is now submitted to the Engineering Faculty with a recommendation for Fast Track approval.

FROM: BME 30100 Bioelectricity

Term offered: Fall, Lecture, Cr. 3, 16 weeks

Prerequisites: MA 26200 or (MA 26500 and MA 26600) and (PHYS 24100 or PHYS 27200) and (BME 30500 [may be taken concurrently] or

ECE 20200 [may be taken concurrently]) College Restriction: School of Biomedical Engr Major Restriction: Biomedical Engineering

Fundamentals of bioelectricity of the mammalian nervous system and other excitable tissues. Passive and active forms of electric signals in both the single cell and cell-cell communication, tissue and systematic bioelectricity, mathematical analysis including Nernst equation, Goldman equation, linear cable theory, and Hodgkin-Huxley Model of action potential generation and propagation.

TO: BME 30100 Bioelectricity

Term offered: Fall, Lecture, Cr. 3, 16 weeks

Prerequisites: MA 26200 or (MA 26500 and MA 26600) and BME 20700

Major Restriction: Biomedical Engineering

Fundamentals of bioelectricity of the mammalian nervous system and other excitable tissues. Passive and active forms of electric signals in both the single cell and cell-cell communication, tissue and systematic bioelectricity, mathematical analysis including Nernst equation, Goldman equation, linear cable theory, and Hodgkin-Huxley Model of action potential generation and propagation.

REASON: Requisite changes have been made to reflect recent changes in BME plan

of study updates/requirements. Pre-requisites have also been streamlined

to eliminate redundancy.

David M. Umulis

Dane A. Miller Head and Professor

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Weldon School of Biomedical Engineering