

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 20500 requisites & offering structure

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

FROM: **BME 20500 Biomolecular and Cellular Systems Laboratory**
Term offered: Fall, Laboratory, Cr. 1, 16 weeks
Prerequisites: BIOL 23000 (may be taken concurrently) and (BME 20100 (may be taken concurrently) or CHM 26300 (may be taken concurrently) or BCHM 30700 (may be taken currently))

Description: Introductory laboratory experience focused on engineering concepts and practices in the analysis of biomolecules and cells. Topics include fundamental quantitative techniques of analysis, methods of isolation, identification, and quantification of biomolecules and cells, and analysis of integrated biosystems. Concludes with student-driven design project. Typically offered Fall.

TO: **BME 20500 Biomolecular and Cellular Systems Laboratory**
Terms offered: Spring, Summer or Fall, Laboratory, Cr. 1, 8 weeks or 16 weeks
Concurrent Prerequisite: BIOL 23000
Major Restriction: Biomedical Engineering only

Description: Introductory laboratory experience focused on engineering concepts and practices in the analysis of biomolecules and cells. Topics include fundamental quantitative techniques of analysis, methods of isolation, identification, and quantification of biomolecules and cells, and analysis of integrated biosystems. Concludes with student-driven design project.

REASON: Changes made to the course provide more curricular flexibility. The course schedule has been redesigned so that this course can be delivered as either a 16-week course or an 8-week course; similar to consolidating courses for delivery in summer. The 8-week course has been piloted under a temporary BME 29500 course number twice in Fall 2020. This change will now allow this course to be offered as an 8-week course in the summer as well as in the spring or fall. Pre-requisites also now accurately reflect knowledge needed for the course.



David M. Umulis

Dane A. Miller Head and Professor
Weldon School of Biomedical Engineering