The Academic Minor

Many departments have designed academic minors for the convenience of undergraduate students.

A minor is a structured group of courses that leads to considerable knowledge and understanding of a subject, although with less depth than a major. Some employers consider minors desirable, and the corresponding major requirements at the University may stipulate a minor. Some students choose to complement their major program with a minor in a related field or even in an entirely different field of interest. Students interested in pursuing an academic minor should contact their college dean’s office and the department responsible for the minor program for guidance and advising.

Please note that undergraduate students can only complete a minor in addition to and as a complement to a major. The University does not award stand-alone minors.

Minor in Biomedical Engineering

NOTE: At the time of publication, the minor in Biomedical Engineering had been approved by the Senate and was awaiting approval by the UK Board of Trustees.

The minor in Biomedical Engineering requires: a) a minimum of 18 hours of course work; b) a GPA of 2.5 in these courses; and c) no grade lower than a C in any BME course. At the discretion of the BME department chair (or designee), a limited number of equivalent course substitutions (i.e., 6 credit hours) may count toward the requirements for this minor. At least 12 credits must have the BME prefix.

Required Course

BME 301 Fundamentals of Biomedical Engineering ................................. 3

Elective Courses

*Select five from among the following:

BME 395 Independent Research in Biomedical Engineering .............................. 1-6

BME 405 Introduction to Biomedical Signal Processing ........................................ 3

BME 472 Human Biomechanics ........................................................................ 3

BME 485 Fundamentals of Biofluid Mechanics ..................................................... 3

BME 488 Introduction to Biomaterials ................................................................. 3

BME 508 Cell Mechanics and Mechanobiology ................................................. 3

BME 515 Modeling of Physiological Systems ..................................................... 3

BME 530 Biomedical Instrumentation ............................................................... 3

BME 540 Mechanical Modeling of Human Motion ............................................. 3

BME 579 Neural Engineering:

Merging Engineering with Neuroscience ............................................................ 3

BME 580 Introduction to Biomedical Imaging ..................................................... 3

BME 481G Topics in Biomedical Engineering ..................................................... 3

BME 599 Topics in Biomedical Engineering (Subtitle required) ......................... 3

*Up to 6 credit hours of independent research (e.g., BME 395) or special topics courses (e.g., BME 481G or BME 599) may count as electives.