QUANTITATIVE PHYSIOLOGY CONCEPTS FOR ENGINEERING, MICROCREDENTIAL

Saint Louis University's quantitative physiology concepts for engineering microcredential consists of two elective courses taken sequentially.

Any development of medical devices or technologies requires a fundamental skillset in human physiology and the ability to process the quantitative aspects of that physiology. This SLU microcredential provides that knowledge and prepares students to go into their graduate, medical or industry careers with the ability to directly understand how the human body interfaces with developing technologies.

Admission Requirements

For current, active Saint Louis University students wishing to declare a microcredential, complete the Update for Student Curriculum Record form (https://ask.slu.edu/TDClient/30/Portal/Requests/ServiceDet/?ID=160).

For non-Saint Louis University students, click here to apply as a Visiting/Non-Degree Seeking Student. (https://www.slu.edu/admission/visiting-students.php)

Learning Outcomes

Through this microcredential students will demonstrate:

1. A fundamental understanding of quantitative aspects of human physiology.
2. The ability to use quantitative problem solving in human physiology scenarios.
3. A fundamental understanding of how human physiology and engineering technology come together in the development and testing of medical technologies.

These outcomes will be assessed directly from student artifacts throughout both courses in the sequence.

Requirements

Code	Title	Credits
BME 4600	Quantitative Physiology I	3
or BME 5600	Quantitative Physiology I	
BME 4650	Quantitative Physiology II	3
or BME 5650	Quantitative Physiology II	
Total Credits		**6**

Continuation Standards

A minimum grade of “C” is required for undergraduate courses and a minimum grade of “B” is required for post-baccalaureate/graduate courses.

Students who do not achieve the requisite grade (“C” for undergraduate coursework and “B” for graduate coursework) for continuation in the microcredential will be allowed to repeat the course one time in an attempt to achieve the requisite grade. If they fail to achieve the necessary grade after one repeat attempt they will be dismissed from the microcredential.

Contact Us

For more information about biomedical engineering microcredentials, please contact:

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