

FOUNDATIONS OF TISSUE ENGINEERING AND REGENERATIVE MEDICINE, MICROCREDENTIAL

The Saint Louis University microcredential in foundations of tissue engineering and regenerative medicine consists of a three-course sequence. Tissue engineering and regenerative medicine are rapidly growing and advancing fields that have the potential to change health care and the treatment of injury and disease in the near future. This SLU microcredential provides students with a foundational understanding of concepts in this field.

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

The following are the associated learning outcomes for this program and where they will be assessed:

1. A fundamental understanding of the different materials used in biomedical applications, structure-property relationships, as well as design criteria and selection parameters.
2. A fundamental understanding of biocompatibility and how the concept is used in selecting or developing biomaterials and engineered tissues for biomedical applications.
3. An understanding of how materials and cells can be used to design implants, tissue substitutes and other biomedical devices for regenerative engineering applications.
4. Clinical applications of biomaterials, regenerative engineering and tissue engineering.

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

Requirements

Code	Title	Credits
BME 4400	Biomaterials	3
BME 4410 or BME 5410	Tissue Engineering Tissue Engineering	3
BME 4430 or BME 5430	Regenerative Engineering Regenerative Engineering	3
Total Credits		9

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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