

BME 522: Immunoengineering Biomedical Engineering

Immunoengineering describes efforts by immunologists and engineers to design new technologies that can be used to better understand the immune system as well as harness its immense power to improve human health. This course provides an in-depth introduction to immunoengineering through five modules: 1) fundamentals of immunology, 2) the immunologist toolbox, 3) vaccines and immunotherapies, 4) drug delivery principles for vaccines and immunotherapies, and 5) materials for immunoengineering.

3 Credits

Prerequisites

- Bisc 160: Biological Sciences I
- Bisc 161: Biological Sciences I Laboratory
- Bisc 162: Biological Sciences II
- Bisc 163: Biological Sciences II Laboratory
- Chem 105: General Chemistry I
- Chem 106: General Chemistry II
- <u>Chem 115: General Chemistry Laboratory I</u>
- Chem 116: General Chemistry Laboratory II

Instruction Type(s)

• Lecture: Lecture for BME 522

Subject Areas

Bioengineering and Biomedical Engineering

The University of Mississippi is accredited by the Southern Association of Colleges and Schools Commission on Colleges to award certificates and baccalaureate, master's, specialist and doctoral degrees. Contact the Commission on Colleges at 1866 Southern Lane, Decatur, Georgia 30033-4097, call 404-679-4500, or visit online at www.sacscoc.org for questions about the accreditation.

