

BME 256: Programming for Biomedical Engineering

Python is a powerful, object-oriented programming language to analyze complex biomedical data, uncover patterns, and drive new discoveries in health and science. This Python course provides basic concepts of Python programming, gradually advancing into essential libraries like SciPy, NumPy, Pandas, and Matplotlib, which opens new doors to solving data- driven challenges in modern biomedical research. This course covers everything from the very basics of Python programming to more advanced developments, providing students with the skills needed for research and beyond. Throughout the course, students will explore real-world applications, learning how to use Python for processing, analyzing, and interpreting biomedical data. 3 Credits

Prerequisites

<u>Math 261: Unified Calculus & Analytic Geometry I</u>

Instruction Type(s)

• Lecture: Lecture for BME 256

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.

