UNDERGRADUATE PROGRAM (BACHELOR OF SCIENCE)

Undergraduate students establish a strong foundation in core technical competencies, and gain specialized skills in a bioengineering focus area through senior electives, design projects and research lab experience.

- Fundamentals: engineering design and problem solving, research skills, proposal writing, technical communication.
- Biology and Chemistry: organic and physical chemistry, protein structure, molecular design, protein networks, cell signaling networks.
- Physics: mass and heat transport, solid and fluid mechanics applied to biomedical problems.
- Programming: MATLAB, programming for signal and data analysis, circuit design.
- Concentrated knowledge in biomaterials, instrumentation or cellular bioengineering.

GRADUATE PROGRAMS (M.S., PH.D., MASTER OF APPLIED BIOENGINEERING, MASTER OF PHARMACEUTICAL BIOENGINEERING)

Graduate students develop expertise in engineering and biology, and are prepared to build interdisciplinary partnerships in industry, academia and medicine.

- Master’s students receive intense mentorship in research and/or the clinical design process.
- Ph.D. students demonstrate high achievement in bioengineering, including intellectual leadership and independence as scientific researchers.

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