

Bioengineering Concentration within the Department of Mechanical Engineering

Bioengineering is the paradigm of the applications of engineering in medicine, biology, the environment, and biotechnology. In recent years bioengineering has experienced rapid growth and the College of Engineering at Temple University has played a leading role in bioengineering research and education. This optional concentration will provide appropriate training for students interested in bioengineering and will help students become more competitive in the growing bioengineering job market.

Students in the optional Concentration in Bioengineering within the BS in Mechanical Engineering program must take the following sequence of courses:

- Introduction to Engineering, ENGR 1101 (required course within the ME BS program)
- Materials Science and Engineering, ENGR 3496 (required course within the ME BS program)
- Classical & Statistical Thermodynamics, ENGR 3571 (required course within the ME BS program)
- Mechanics of Fluids, ENGR 3553 (required course within the ME BS program)
- Introduction to Bioengineering, ENGR 3719 (technical elective)
- Cell Biology for Engineers, ENGR 3725 (technical elective)
- Mammalian Physiology, BIOL 3334 (technical elective, laboratory included, satisfies the Lab Elective)
- Approved ME Bioengineering Elective (technical elective)