Students interested in biomechanics can select a set of biology and biomechanics courses to fulfill their math/science electives and technical electives within the BSME degree program. There is also an option to simultaneously complete the Biology in Engineering Certificate (BEC) program, which is a formal certificate designed for mechanical engineering students interested in problems in biology and medicine.

**RECOMMENDED COURSES**

- Biology 101 Animal Biology (3)
- Biology 102 Animal Biology Lab (2)
- Biology 151 Introductory Biology (5)

**Technical Electives (12 credits)**

- PHYSIOL 335 - Physiology (5)
- BME 315 - Introduction to Biomechanics (3)
- ME 414 - Orthopedic Biomechanics (3)
- ME 415 - Movement Biomechanics (3)
- ME 505 - Biofluidics (3)
- ME 516 - Finite Elements for Biological and Other Soft Materials (3)
- ME 601 - Design for Rehabilitation (3)
- ME 603 - Topics in Biomedical Engineering (3)
- ME 615 - Tissue Mechanics (3)

**SUGGESTED EXTRACURRICULARS**

- Human Powered Vehicle Competition
- American Society of Mechanical Engineers (ASME)
- Biomedical Engineering Society (BMES)
- Undergraduate Research

**CAREER POSSIBILITIES**

- Medical Devices
- Sport Equipment
- Orthopedic Implants
- Biomanufacturing
- Prosthetics
- Graduate Programs in Biomechanics
- Healthcare (medical school, physical therapy, etc.)

*Specializations are not formal, but rather a list of recommended tech elective courses and/or experiences to specialize in a certain area.