

BME 553 : Biomechanics of Orthopaedic Devices

This course will survey different types of orthopaedic implants and devices, primarily focusing on joint arthroplasty and fracture fixation methods. Topics such as: device design and function, mechanics, materials, validation and testing, failure, use cases, and regulatory requirements will be discussed. Class projects and discussions will cover contemporary topics related to the design, manufacture, and post-implantation measurement and performance evaluation of orthopaedic devices. Students may not receive credit if they previously completed this course as BME 595: Special Topics.

Department

Biomedical Engineering

Credits 3.0