BMEN 6379 - Mechanics of Soft Tissues

BMEN 6379 Mechanics of Soft Tissues (3 semester credit hours) This course covers several fundamental theories of solid mechanics that are needed to solve problems in biomechanics and biomaterials. The theories of nonlinear elasticity and viscoelasticity are applied to a large range of biomaterials and biological tissues, including bone, articular cartilage, blood vessels, the heart, and skeletal muscle. Other topics include muscle activation and the biomechanics of development, growth, and remodeling. Prerequisite BMEN 3399 or Graduate standing. (3-0) Y