BME 539	Biomechanics I
Catalog Data	Introduction to mechanical behavior of biological tissues and systems, influence of material properties on the structure and function of organisms, methods for the analysis of both rigid body and deformational mechanics with application to include biological tissues such as bone, muscle, and connective tissues.

Course Total Credit Hours:	**3**	**Lecture:**	**3**	**Laboratory:**	**-**	**Project**	**-**
Prerequisites:	ME470 or consent of instructor.						
Course Coordinator:	Biomedical Engineering Faculty						

Textbooks

1. Fundamentals of Biomechanics: Equilibrium, Motion, and Deformation by Nihat Özkaya, Margareta Nordin, V.H. Frankel, and R. Skalak, 1999.

References

Biomechanical Basis of Human Movement by Joseph Hamill, and Kathleen M. Knutzen, 2003.

Goals	To familiarize the students with the basic mechanical behavior of biological tissues and systems.

Projects

Major CAD Packages

Last Review:	**Spring Semester 2008**	**Signature:**	