

# PTY 506 : Human Biomechanics with lab

Biomechanics is the application of the principles of physics and Newtonian mechanics to movement of the human body. Through lectures, laboratory demonstrations and experiences, and class projects, students will develop an understanding of and be able to analyze, apply, synthesize and evaluate the effects of physical properties and Newtonian mechanics on human movement and on the human body. The following content areas will be included: biomechanical principles and properties of biological material, kinematics, kinetics, as well as the application of biomechanical principles to functional activities. This course is only open to students enrolled in the entry level DPT Program. Students must be enrolled in PTY 506 Lab while taking this course.

**Credits** 5