

**Graduate Student Term Project**

Spring 2008

**Due Thursday, June 5, 9:10 a.m. NO LATE ASSIGNMENTS WILL BE ACCEPTED!****You must work only singly.**

As required by Ohio University, graduate students must complete extra work in a dual-listed course such as ME 467 / BME 567. A quarter-long problem-based learning (PBL) assignment must be completed by each graduate student independently. You must define your own project and have it approved by Dr. Bob by the third week. I give no guidelines regarding the project – this is intentional to allow diversity in projects (e.g. if I say it must include design, but you want to do analysis & simulation, you would be out of luck). However, it should include some type of computer simulation.

**Example:** choose one typical human motion from sports, work, or other activity (e.g. rehabilitation) and completely describe the associated anatomy and physiology. Then simulate the motion's kinematics, statics, and dynamics on the computer (Matlab is a good tool) – you cannot choose the biceps/triceps arm motion example from the notes.

The goal of the project is have you investigate a biomechanics of human motion area of interest to your research, hopefully, and help you explore it in depth before your MS thesis. A side goal of this project is for you to teach Dr. Bob and the undergraduates, and to get the undergrads excited about grad school. This intense effort is worth 25% of your grade and cannot be dropped. Undergraduate students do not need to complete this project.

**Specific steps to complete:**

1. Define your project via a 1-page memo and APPROVE IT WITH DR.BOB BEFORE 9:10 a.m. on Friday April 18, 2008! (Project Grade of 0 if your name is not on my paper by this deadline.) Include detail including project idea, goals, specific work steps, computer simulation plans, and specific deliverables.
2. Keep Dr. Bob apprised of your progress weekly just before or after class: your responsibility.
3. Present your interim project results orally to the class on Friday May 2, 2008. Also, submit interim written report on this day (keep the original for yourself, this will become the final report – just give me a photocopy at this point).
4. Present your project results orally to the class on Thursday June 5, 2008 in class. This must be a professional presentation. The final written report must also be submitted on this day.

**Any questions, just ask!****Pace yourself to work every week. Report regularly to Dr. Bob.****Do not ask for an extension or an incomplete.**