Course Title: BME 3303: Fundamentals of Biomedical Engineering I

Class Time: Spring Semester
MW 12:00 noon - 1:20 pm Room: CCSB 1.0204

Textbook: none, Handouts may be provided

Instructors: Thomas Boland, Ph.D. tboland@utep.edu

Office hours: Wednesdays 1 pm - 3 pm

Goals:
This course teaches the application of various engineering principles to analysis and understanding of the structure, function, and control of biological systems. Prereq: BME minor or consent of instructor.

POINTS DISTRIBUTION: In class work 10%, Home work 30%, Midterm 30% Final 30%

Approximate Schedule:
Week 1: Introduction to class, introduction to biomedical engineering
Week 2: Cells, tissues, organs
Week 3-4: Pathogens and the Immune System
Week 5: Wound healing
Week 6-8: Cardiovascular devices and their design
Week 9: Biocompatibility
Week 10: Biomaterials
Week 11-12: Orthopedic devices and their design
Week 13: FDA
Week 14: Clinical Trial design
Week 15: Translational Medicine

Disability
If you have a disability and need classroom accommodations, please contact The Center for Accommodations and Support Services (CASS) at 747-5148, or by email to cass@utep.edu, or visit their office located in UTEP Union East, Room 106. For additional information, please visit the CASS website at www.sa.utep.edu/cass

Academic Integrity
The instructors expect a commitment to truthfulness, honor and responsibility, without which you cannot earn the trust and respect of others. Therefore, we will not tolerate plagiarism, lying, cheating, or stealing in any form.

Honor Code: “I, ________________________, hereby pledge that I have read and understood the entire syllabus for the course, BME 3303 Fundamentals of BME I, and I will abide by the policies described above.”