Course number and name

BMEN 3310 – Engineering Measurements from Human Systems

Credits and contact hours

3 Credits. Tuesday 3:30pm - 6:20pm (Lab)
Thursday 4:30pm – 6:20pm

Instructor’s or course coordinator’s name

Instructor: Dr. Simon Allo

Text book, title, author, and year

There is prescribed textbook for this course. Lecture notes will be provided in addition to the copies of lecture slides. The book listed below is for reference and for structured self-reading:

a. Other supplemental materials
Lecture slides and notes – this will be a major source

Specific Course Information

a. Brief description of the content of the course (catalog description)

This is an introductory course. It is intended to equip the students with the fundamentals required to understand human anatomy and physiology from a systems approach. The biomedical engineering aspects of different physiological systems will be explored. The information presented consists of the gross anatomical features of the body systems along with the relevant developmental, histological, functional and clinical information.

a. Prerequisites or co-requisites

BMEN 1300

a. Indicate whether a required, elective, or selected elective course in the program

NA

Brief list of topics to be covered
Topic 1. General Principles (2 lectures)
Topic 2. The Tissue Level of Organization (1 lecture)
Topic 3. The Integumentary System (1 lecture)
Topic 4. The Skeletal System and Muscular System (2 lectures)
Topic 5. The Nervous System (2 lectures)
Topic 6. The Endocrine System (1 lecture)
Topic 7. The Cardiovascular System (3 lectures)
Topic 8. The Pulmonary System (2 lectures)
Chapter 10. The Renal System (2 lectures)
Chapter 11. The Gastrointestinal System (2 lectures)

**Grading**

Class participation and Presentations = 10%
Quiz = 10%
Midterm = 40%
Finals = 40%