

**BIME 6003**  
**Introduction to Clinical**  
**Practices**  
**Spring 2019**

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**CLASS DAYS and TIME:** Fridays 4:00 P.M. - 5:15 P.M.

**CLASSROOM:** AL&TC 2.211

**COURSE FACULTY:** Howard T. Wang (Course Director); Bennett Amaechi, Edward Ellis, Steven Bailey, Kent Van Sickle, Christian Stallworth, Scott Farber, Susannah Nicholson, Animesh Agarwal, Glenn Gross, Amita Shah, Ravi Karia, Maryam Elmi, Dimitrios Miserlis, Kevin Hall, Gregory Dion

**OFFICE LOCATION and HOURS:** Med 2.230F (Dr. Howard Wang), hours varies and may arrange with individual faculty by email

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**TELEPHONE:** Contact faculty by e-mail

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**READ THIS DOCUMENT CAREFULLY - YOU ARE RESPONSIBLE FOR ITS CONTENTS.**

## **COURSE DESCRIPTION AND OBJECTIVES**

This course will provide an introduction to clinical medicine for the graduate biomedical engineering student. It will give the student a working knowledge of engineering aspects as it relates to clinical practice. A variety of specialties will be presented. The students will also have the opportunity to observe surgery to gain additional insight. Integration with the medical industry will be made at the end.

**Pre-requisites** – (none)

**Semester credit hours** – 1

By the end of this course, each student should be able to:

Understand how engineering relates to the clinical practice of medicine.

## **COURSE ORGANIZATION**

**The main teaching modalities used in this course include:**

1) Didactic lectures designed to convey information to the students in traditional lecture format

**Materials** – There are no specific course materials required for this course

**Computer Access** – Students will need access to a computer and the Internet to obtain course materials and for preparation of methodology/technology presentations.

**Reading Assignments** – Reading assignments will be posted prior to lectures if applicable.

## **ATTENDANCE**

Attendance is mandatory. Students are expected to attend all classes and to be on time. In cases of illness or other serious event, the student is responsible for all materials presented on that day. There will be no make-ups for missed lectures or discussions. A student who misses an assigned presentation will receive no credit for that assignment.

## **TEXTBOOKS**

**Required:** (none)

## **GRADING POLICIES AND EXAMINATION PROCEDURES**

**Attendance = 60% Term Paper = 40% Grading System**

A = 90-100%      B = 80-89%      C = 70-79%      F = < 69%

## **REQUESTS FOR ACCOMMODATIONS FOR DISABILITIES**

In accordance with policy 4.2.3, **Request for Accommodation Under the ADA and the ADA Amendments Act of 2008 (ADAAA)**, any student requesting accommodation must submit the appropriate request for accommodation under the American with Disabilities Act (ADA, form 100) to his/her appropriate Associate Dean of their School and a copy to the ADA Coordinator. Additional information may be obtained at <http://uthscsa.edu/eoo/request.asp>.

## **ACADEMIC INTEGRITY AND PROFESSIONALISM**

Any student who commits an act of academic dishonesty is subject to discipline as prescribed by the UT

System Rules and Regulations of the Board of Regents. Academic dishonesty includes, but is not limited to, cheating, plagiarism, collusion, the submission for credit of any work or materials that are attributable in whole or in part to another person, taking an exam for another person, signing attendance sheets for another student, and any act designed to give unfair advantage to a student or the attempt to commit such an act. Additional information may be obtained at

<http://catalog.uthscsa.edu/generalinformation/generalacademicpolicies/academicdishonestypolicy/>

## **TITLE IX AT UT Health San Antonio**

### **Title IX Defined:**

Title of the Education Amendments of 1972 is a federal law that prohibits sex discrimination in education. It reads “no person in the United States shall, on the basis of sex, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any education program or activity receiving Federal financial assistance.”

### **UT Health San Antonio’s Commitment:**

UT Health San Antonio is committed to maintaining a learning environment that is free from discriminatory conduct based on gender. As required by Title IX, UT Health San Antonio does not discriminate on the basis of sex in its education programs and activities, and it encourages any student, faculty, or staff member who thinks that he or she has been subjected to sex discrimination, sexual harassment (including sexual violence) or sexual misconduct to immediately report the incident to the Title IX Director.

In an emergency, victims of sexual abuse should call 911. For non-emergencies, they may contact UPD at 210-567-2800. Additional information may be obtained at <http://students.uthscsa.edu/titleix/>

## **EMAIL POLICY**

All course communication will be conducted by e-mail using the student’s LiveMail account. Students are expected to check their e-mail accounts regularly and are responsible for materials, assignments, notifications, and test materials distributed by e-mail.

## **USE OF RECORDING DEVICES**

The use of recording devices is allowed.

## **ELECTRONIC DEVICES**

Cell phones may not be used in class and must be shut off during class. Computers or tablets can be used in class for class—related purposes and note taking. They may not be used for e-mail, web surfing, or any activity not related to class.

## TENTATIVE CLASS SCHEDULE

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Date--Instructor—Topic

1/11/2019 Dr. Bennett Amaechi--Dentistry and Cariology

1/18/2019 Dr. Steven Bailey--Cardiology

1/25/2019 Dr. Edward Ellis (Stability of Orthognathic Surgery)

2/1/2019 Dr. Kent Van Sickle (Robotics in Surgery) / Dr. Kevin Hall

2/8/2019 Dr. Christian Stallworth--Structural Rhinoplasty

2/15/2019 Dr. Scott Farber—Craniofacial Skeleton Intricacies

2/22/2019 Dr. Susannah Nicholson--Microbiome in Context of Critical Illness and Trauma

3/1/2019 Dr. Animesh Agarwal--Orthopedic Surgery

3/8/2019 Dr. Glenn Gross--Gastroenterology

3/22/2019 Dr. Amita Shah--Biomaterials in Plastic Surgery

3/29/2019 Dr. Ravi Karia--Orthopedics

4/5/2019 Dr. Maryam Elmi—Surgical Oncology

4/12/2019 Dr. Dimitrios Miserlis—Aortic Technology

4/19/2019 Dr. Gregory Dion - Otolaryngology (ENT)