

**MSDS 5021
Biomedical Core Course**

Spring 2017

CLASS DAYS and TIME: Friday 8.00am-8.50am

CLASSROOM: Center for Oral Health Care & Research Room 4067

COURSE FACULTY:

Course Director Dr. Peter Gakunga
Gakunga@uthscsa.edu

Section Leader Ken Hargreaves, DDS, PhD

OFFICE LOCATION

and HOURS: 4.599U
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Office Phone: 210-567-3388
By appointment

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

COURSE DESCRIPTION AND OBJECTIVES

The Biomedical Core Course will provide a multidisciplinary approach to basic science instruction as it relates to the practice of dentistry. Both basic science and clinical science faculty will participate to provide a sound base of knowledge required by each residency program. Individual programs will supplement the Biomedical Core Course in the basic science areas particular to that discipline. This combination of core instruction with individual supplementation should provide the advanced education student with the appropriate background in biomedical science.

Pre-requisites – None

Semester credit hours – 4

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

- Demonstrate an understanding of the basic principles of biomedical sciences as they relate to clinical dentistry.
- Growth and Development: Discuss the basic principles of growth and development of the craniofacial apparatus.
- Saliva: Discuss the basic principles of the formation, neurological control, and bioactivity of saliva.

- **Anatomy, Microanatomy, Biochemistry and Physiology of Head and Neck Tissues:** Discuss the basic principles of the anatomy, microanatomy, biochemistry and physiology of the hard and soft tissues of the head and neck including bone, collagen, oral mucosa, the periodontium, and the pulp.
- **Wound Healing:** Discuss the basic principles of wound healing including physiology and biochemistry of wound repair, healing and repair of bone, complications in wound repair, and proper wound management.
- **Plaque and Calculus:** Discuss the basic principles of the formation and maturation of plaque and calculus.
- **Infections:** Discuss the basic principles of head and neck infection including anatomical factors, immunology, oral bacterial infections, oral fungal infections, oral viral infections, pharmacologic control of infections, and infection control.
- **Systemic Disease in Dentistry:** Discuss the basic principles of dental management of patients with systemic disease including cardiovascular disease, respiratory disease, bleeding disorders, diabetes, musculoskeletal disease, renal disease, complications of radiation and chemotherapy, neurological disease, gastrointestinal disorders and chemical abuse.

COURSE ORGANIZATION

The main teaching modalities used in this course include:

- 1) Conventional didactic lectures
- 2) Online review material and self-study activities

Materials – The section leaders will provide study and lecture materials. These will be placed on CANVAS

Computer Access – The course materials will be placed on CANVAS. All students enrolled in this course will have access to the course page on CANVAS. The course director will communicate to students via CANVAS email.

Reading Assignments – Required reading assignments will be posted onto CANVAS. Unless stated by the instructor, any information in the required readings is testable in the exams.

ATTENDANCE

Attendance at every class session is expected. Any anticipated absence due to individual residency program activities, or personal reasons should be communicated to the course director as early as possible.

Lateness to class is considered unprofessional behavior

TEXTBOOKS

There are no required textbooks. All material and reading will be assigned by the instructors

GRADING POLICIES AND EXAMINATION PROCEDURES

Each section leader has provided their section's exam policy at the heading to each section.

The final grade will be the mean of scores from all six section exams

For in-class exams: No electronic devices, books or backpacks will be permitted. Late arrival will not accrue additional time.

Make-up Exams: A student with an excused absence to a scheduled exam, from the course director, will have a make-up exam as soon as possible. Any unexcused absence from exam will receive a grade of zero

Grading System

100-91= A 90-81 = B 80-71 = C 70 and below = Failure

10 points are possible for each class session. There are 8 class sessions, so this provides 80 total points. The 10 points for each class session are earned by either a combination of attendance (5 pts) with quiz (5 pts), or attendance alone (10 pts). Final examination is worth 20 points.

REQUESTS FOR ACCOMODATIONS 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 UTHSCSA

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.”

University of Texas Health Science Center San Antonio’s Commitment:

University of Texas Health Science Center San Antonio (UTHSCSA) is committed to maintaining a learning environment that is free from discriminatory conduct based on gender. As required by Title IX, UTHSCSA 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

Communication between student and faculty using the University’s email system is considered official business. Students are expected to check their university email inboxes on a regular basis to access any information regarding this course in a timely way.

USE OF RECORDING DEVICES

Recording of learning activities in this course by any means is only permitted if approved by the instructor or for compliance with Americans with Disabilities Act (ADA).

ELECTRONIC DEVICES

Cell phones must be turned off during all class activities. Computers and electronic devices are allowed only for participating in class activities

Course Schedule- Classes begin promptly at 8:00 am:

DATE (FRIDAYS)	TIME:	LOCATION:	TOPIC	LECTURER
01/13/2017	8-8:50 am	COHCR 4067	Orofacial Pain Mechanisms I	Hargreaves
01/20/2017	8-8.50 am	COHCR 4067	Orofacial Pain Mechanisms Part II	Hargreaves
01/27/2017	8-8:50 am	COHCR 4067	Management Acute Pain I	Hargreaves
02/03/2017	8-8:50 am	COHCR 4067	Management Acute Pain II	Hargreaves
02/10/2017	8-8:50 am	COHCR 4067	Assessment of TMJ & Muscles Mastication	Wright
02/17/2017	8-8:50 am	COHCR 4067	Management of TMD	Wright
02/24/2017	8-8:50 am	COHCR 4067	Non-TMD Head Pain & Neuropathic Pain	Wright
03/03/2017	8-8:50 am	COHCR 4067	Course Review & Final Exam	Wright/ Hargreaves