

MSDS 5051/5090/SELC 7116
RESEARCH METHODOLOGY/HRSA FACULTY DEVELOPMENT
FALL 2016

CLASS DAYS & TIME: Fridays: 10:00 am to 12:00 pm

CLASSROOM: School of Dentistry, Room 1.284T (Lecture Hall, 1ST FL)

COURSE FACULTY:

John D. Rugh, Ph.D.
Course Director
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COURSE ADMINISTRATOR: Mabel Hernandez; 567-3516;
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OFFICE HOURS: By appointment, Office 4.278R

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

COURSE DESCRIPTION AND OBJECTIVES

This course is designed to introduce dental residents, students and faculty to critical thinking, research methodology, and evidenced-based practice skills. The course also provides information to assist in establishing an Evidence-Based Practice and to complete the Masters Degree. Participants of different programs will complete different components of the course.

Pre-requisites – None

Semester credit hours – 2

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

1. Efficiently use the UTHSCSA library, Trip Database & Library of Medicine (PubMed).
2. Critically evaluate dental literature.
3. Describe and employ the concepts of Evidence-Based Practice in private practice & educational settings.
4. Understand the steps in developing a research protocol.
5. Demonstrate the skills of scientific writing and research methods necessary to complete the MS.

Note: Objectives 4 & 5 are for MS Degree Residents Only

COURSE ORGANIZATION

The main teaching modalities used in this course include:

1. Lectures, assigned readings & online tutorials will be used to provide instructional materials.
2. Individual & Team Based Learning (TBL) experiences will be used to reinforce the instructional materials.
3. Students will demonstrate their EBP & critical thinking skills by writing & publishing a Critically Appraised Topic (CAT).

Materials – see below

Computer Access – Various materials and assignments will require access to a computer with Internet capabilities.

Reading Assignments – Required reading assignments will be provided and are never considered optional. Unless specifically noted by the instructor, anything in the required readings, whether emphasized in class or not, is considered testable on exams.

- **Lectures** – Many of the presentations are given in the common lecture format and accompanied by PDF-converted PowerPoint slide files. You are responsible for all information included in the lecture materials. However, you should not assume that all testable lecture material is found only in the posted materials, that is, lectures may be expanded and enhanced during in-class presentations. So, **take good notes because any information discussed in class is considered testable.**

ATTENDANCE

In order to achieve the expected level of competency, students must be fully engaged. Therefore, attendance for every class session is expected.

It is recognized that a student may occasionally arrive late to class due to unexpected traffic problems or inclement weather. However, chronic lateness is considered an unprofessional behavior that disrupts the learning environment for everyone else in the classroom.

In the event of an emergency/conflict, participants must notify the course director Dr. John Rugh (rugh@UTHSCSA.edu), 567-6142.

GRADING POLICIES AND EXAMINATION PROCEDURES

The following components will be considered in determining the final grade:

- Homework/Class Projects 30%
- CAT Exercises 20%
- In-class quizzes 20%
- Final Exam 30%

Grading System

Letter grades for the course will be earned based on the following formulas:

- 89.5–100 = A
- 79.5–89.4 = B
- 69.5–79.4 = C
- 59.5–69.4 = D
- 59.4 & Below = F

Examination Protocol – Exams may be composed of multiple-choice, short answer, and essay questions.

Late Arrival to Exams – Exams will be timed. **If you arrive late** to an exam, and are given permission to take the exam, you will not be given additional time to complete your test. If you arrive after another student as finished the exam and has departed the exam room, you will not be allowed to take the exam. If you miss an exam, you may be eligible for taking a make-up exam. (see below).

Make-up Examinations – A student who must miss a scheduled exam for a serious reason must request an excused absence from the Course Director. Acceptable “serious reasons” usually involve serious illness or injury to the student (doctor’s excuse may be required) or the student’s family member. Examples of unacceptable reasons include: Not prepared or incomplete studying, over-sleeping, hangover, heavy traffic or any travel delays, other appointments or scheduled professional or personal commitments.

If it is determined that missing an exam is justified, a make-up examination will be scheduled. The make-up exam will be given as soon as possible at a time designated by the Course Director. Any student who misses an exam and does not receive an excused absence will receive a grade of zero for that exam.

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

Every student is issued a University e-mail address and account at the time of enrollment. As a matter of University Policy, communications between students and faculty that occur using the student's University e-mail address are considered official business. Therefore, **students are expected to check their university e-mail inboxes on a regular basis** so that any announcements, instructions, or information regarding this course will be received in a timely way. Missed communications due to inadequate monitoring of incoming e-mails on the University's e-mail server will never be a valid excuse for unsatisfactory academic progress.

USE OF RECORDING DEVICES

Recording of lectures and other learning activities in this course by any means (e.g., video, audio, etc.) is only permitted if approved by the instructor or required for compliance with Americans with Disabilities Act (ADA).

ELECTRONIC DEVICES

Cell phones must be turned off during all class meetings and exams. Computers and electronic tablets are allowed only for participating in classroom activities (e.g., viewing slides presented in lecture or conference materials). No texting, tweeting, emailing, web-surfing, gaming, or any use of electronic devices that is not directly connected with classroom activities is permitted.

TENATIVE SCHEDULE
MSDS 5090-5051/SELC 7116
RESEARCH METHODOLOGY/EVIDENCE-BASED PRACTICE
FALL 2016

WEEK	DATE	TIME	TOPIC	Instructor & Modality
Week 1	9/9/16	10a-11a	Course Overview & Intro to Evidence-Based Practice (EBP)	John Rugh
		11a-12p	EBP Skills 1: Formulating Clinical Questions (PICO) EBP Skills 2: Finding the Best Evidence (PubMed & Trip)	John Rugh
Week 2	9/16/16	10a-11a	Completing your Masters Research Project: Part 1 Overview Selection of Problem, Hypotheses, etc. (MS Students only)	John Rugh
		11a-12p	Anatomy of a Research Protocol (MS Students only)	W. Hendricson
Week 3	9/23/16	10a-11a	EBP Skills 3: Critical Review of Literature (overview) Case Studies, Case Series & Cohort Studies	John Rugh
		11a-12p	EBP Skills 4: Evaluation of Diagnostic Tests	John Rugh
Week 4	9/30/16	10a-11a	EBP Skills 5: Clinical Trials & RCTs	Kelly Lemke
		11a-12p	EBP Skills 6: Systematic Reviews & Meta-Analysis	Kelly Lemke
Week 5	10/7/16	10a-11a	Preparing & Publishing a <i>Critically Appraised Topic</i>	Kelly Lemke
		11a-12p	Writing & Clinical Communication Skills	W. Hendricson
Week 6	10/14/16	10a-11a	Education Research Methods and Design	W. Hendricson
		11a-12p	Research Ethics & Inst. Review Board (MS Students only)	IRB Staff
Week 7	10/21/16	10a-11a	Completing your Masters Research Project: Part 2 Data Collection & Analysis (MS Students only)	John Rugh
		11a-12p	Completing your Masters Research Project: Part 3 Preparing Theses, Abstracts for Professional Meetings and Publications (MS Students only)	John Rugh
Week 8	10/28/16	10a-11a	Strategies for Keeping "Up-to-Date"	John Rugh
		11a-12p	Exam and Assessment	John Rugh

Notes:

- 1) AGED residents are required to attend *only* the lectures in **black print** & final exam (10 hrs).
- 2) Deadline for students to submit their CAT for review and publication is 10/21/16. The CAT must be accepted for publication by 11/11/16.
- 3) In addition to the above classroom lectures residents in the MSDS program will have 12 hours of online instruction and tutorials.

Supported by HRSA Grant D86HP24480