MSDS 5121
Biostatistics for Dental Specialist Students

Fall 2016

CLASS DAYS and TIME: Tuesday and Thursday from 9am to 9:50am

CLASSROOM: Library 2.031

COURSE FACULTY: Dr. Thomas J Prihoda

OFFICE LOCATION and HOURS: 470.L Monday through Friday 8am to 5pm

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

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COURSE DESCRIPTION AND OBJECTIVES

Introductory biostatistics including analysis and interpretation of nominal, ordinal, interval, and ratio scale data with basic statistics.

Pre-requisites – Dental graduate student status.

Semester credit hours – One (1) graduate student credit hours.

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

- Perform and interpret basic statistical analyses.
- This includes basic graphs, descriptive statistics, t-tests, regressions, correlations, one way analysis of variance and non-parametric versions of these statistics.

COURSE ORGANIZATION

The main teaching modalities used in this course include:

1) Reading the required texts and doing homework for test preparation.

2) Working problems from the e-book text.

3) In lectures problems are worked and interpretation is given for the homework problems.

Materials – One texts is required: Kim, J and Dailey R, Biostatistics for Oral Healthcare, Blackwell, Ames, Iowa, 2008. It is an e-book available through the library.

Computer Access – Needed to access the library e-books.

Reading Assignments – Reading assignments include chapters and pages from the above text.

ATTENDANCE

Attendance required is the midterm and the final.

TEXTBOOKS

Required: Kim, J and Dailey R, Biostatistics for Oral Healthcare, Blackwell, Ames, Iowa, 2008. It is an e-book available through the library.

GRADING POLICIES AND EXAMINATION PROCEDURES

The final grade will be based on 45% for the midterm and 45% for the final. Ten (10%) percent for a final report reviewing an article from the dental literature. Three (3%) will be allowed for extra credit by arrangement selected with the instructor from methods from the text not covered in the lectures.

Grading System

Include a grading scale used to determine final grades, see example below

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

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/eeo/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

Students are encouraged to communicate with each other and the instruction using e-mail.

USE OF RECORDING DEVICES

Recording devices are allowed.

ELECTRONIC DEVICES

Students may use other electronic devices as desired even during the tests.

TENTATIVE CLASS SCHEDULE
DENH 5924
Biostatistics for Dental Hygiene Graduate Students
Fall 2016

WEEK	DATE	TOPIC	Assignment	Instructor and Modality
Week 1	8/25	Introduction to biostatistics	Ch. 1	TP
		Distributions, graphs, and comments	Ch. 2	See CANVAS
Week 2	9/1	Descriptive statistics	Ch. 3	For pages
		Probability ideas	Ch. 4	
Week 3	9/8	Useful probability distributions	Ch. 5	
		Sampling distributions	Ch. 6	
Week 4	9/15	Confidence intervals and sample size	Ch. 7	TP
		One sample hypotheses tests	Ch. 8	See CANVAS
Week 5	9/22	review		
		Test 1	Chapters 1 to 8.	
Week 6	9/29	Two sample hypotheses tests	Ch. 9	
		Categorical analyses	Ch. 10	
Week 7	10/6	Regression and correlation	Ch. 11	TP
		Oneway analysis of variance	Ch. 12	See CANVAS
Week 8	10/13	Twoway analysis of variance	Ch. 13	
		Nonparametric analysis	Ch. 14	
Week 9	10/20	Survival analysis	Ch. 15	TP
				See CANVAS
Week 10	10/27	review		
Week 11	11/3	Final exam	Chapters 9 to 15.	
Week 12	11/10	Choose article to review	Get approval for chosen article	TP
				See CANVAS
Week 13	11/17	Report for 10% of grade	Turn in report	
Week 14	11/24	Thanksgiving	No class	
Week 15	12/1	Extra credit due	optional	TP
				See CANVAS
Week 16				
Week 17				