

DENH 5924

Biostatistics for Dental Hygiene Graduate Students

Fall 2017

CLASS DAYS and TIME: Independent study on CANVAS computer software.

CLASSROOM: UTHSCSA CANVAS software

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.

COURSE DESCRIPTION AND OBJECTIVES

Introductory biostatistics including analysis and interpretation of nominal, ordinal, interval, and ratio scale data with basic statistics including use of SPSS software to accomplish the analysis.

Pre-requisites – Dental hygiene graduate student status.

Semester credit hours – Three (3) graduate student credit hours.

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

- Perform and interpret basic statistical analyses using SPSS software.
- This includes basic graphs, descriptive statistics, t-tests, regressions, correlations, one way analysis of variance and non-parametric versions of these statistics. Interpretation includes recognizing and interpreting these statistics in the dental hygiene literature.

COURSE ORGANIZATION

The main teaching modalities used in this course include:

- 1) Reading the required texts and some articles given on CANVAS.
- 2) Working problems in the SPSS software text.
- 3) Participating in discussions on CANVAS about the texts and some dental hygiene literature.

Materials – Two texts are required: Scott, I and Mazhindu D, Statistics for Healthcare Professionals: An Introduction, 2nd edition, SAGE, Los Angeles, 2014 and Cronk, B, How to Use SPSS, 8th edition, A Step-by-Step Guide to Analysis and Interpretation, Pyrczak publishing, Glendale, CA, 2014.

Computer Access – CANVAS and the SPSS software for graduate students.

Reading Assignments – Reading assignments include the above two texts and a few articles with statistics covered in the above texts from the dental hygiene literature. The details are given in CANVAS where homework, reports, and/or CANVAS discussion using the reading assignments are required for grading.

ATTENDANCE

Attendance required is turning in the assignments from CANVAS every 3 weeks during the semester.

TEXTBOOKS

Required: Scott, I and Maxhindu D, Statistics for Healthcare Professionals: An Introduction, 2nd edition, SAGE, Los Angeles, 2014 and Cronk, B, How to Use SPSS, 8th edition, A Step-by-Step Guide to Analysis and Interpretation, Pyczak publishing, Glendale, CA, 2014. List details of required textbooks and/or readings

GRADING POLICIES AND EXAMINATION PROCEDURES

The final grade will be based on a possible total of 300 points as follows:

- (20%) 1 Discussions (3 discussions, 20 points each, total 60 points)
- (66%) 2 Practice exercises (4 exercises at 50 points each total 200 points)
- (10%) 3 Checking for understanding (3 assignments, 10 points each,
Total 30 points)
- (4%) 4 Choosing a test for your research (10 points)

Initial grades can be improved by resubmitting assignments for an additional half credit and what was initially missed.

Grading System

Include a grading scale used to determine final grades, see example below. The student must maintain a “B” average as a graduate student.

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/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

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

USE OF RECORDING DEVICES

CANVAS supports verbal meetings which can be recorded. These will be scheduled at the students requests.

ELECTRONIC DEVICES

Students may use other electronic devices as desired.

TENTATIVE CLASS SCHEDULE
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Subject to Change

WEEK	DATE	TOPIC	Assignment	Instructor and Modality
Week 1	8/21	Introduction	Scott and Mazhindu, Ch.1,2, and 3	TP
			SPSS Ch.1 and 2	See CANVAS
Week 2	8/28		Supplement 5 pages	
Week 3	9/04			
Week 4	9/11	Descriptive statistics	Scott and Mazhindu, Ch.6,7,9,10	TP
			SPSS Ch.3 and 4	See CANVAS
Week 5	9/18		Supplement 2 pages	
Week 6	9/25			
Week 7	10/02	Association and Prediction	Scott and Mazhindu, Ch.17	TP
			SPSS Ch.5	See CANVAS
Week 8	10/09		Supplement 3 pages	
Week 9	10/16	Parametric Inferential Statistics	Scott and Mazhindu, Ch.9,11,12,13	TP
			SPSS Ch.6	See CANVAS
Week 10	10/23		Supplement 3 pages	
Week 11	10/30			
Week 12	11/06	Nonparametric Inferential Statistics	Scott and Mazhindu, Ch.14,15,16	TP
			SPSS Ch. 7	See CANVAS
Week 13	11/13		Supplement 4 pages	
Week 14	11/20			
Week 15	11/27	Sample size and choosing the appropriate test	Scott and Mazhindu, Ch.18 and 20	TP
			SPSS appendix A	See CANVAS
Week 16	12/04	Finish		
Week 17				

