AHLT 3704 - Quantitative Methods in Health Sciences

Fall 2026 Syllabus, Section 01, CRN 41278,

Credit hours: 3

Instructor

Silvia Stefan

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Public Instructor Information

Instructor Title: Dr Silvia Stefan EdD, RDH
Instructor Professional Qualifications:

Associate Degree in Dental Hygiene, Youngstown State University 1994

Bachelor's Degree in Community Health, Youngstown State University 2001

Master's Degree in Health and Human Services, Youngstown State University 2003

Doctorate Degree in Educational Leadership, Youngstown State University 2016

Instructor Office Location: Cushwa Hall 1132
Instructor Office Phone: (330) 941 -7157

Course Description

3704. Quantitative Methods in Health Sciences. This course is designed to provide the Health Care Professional with the ability to read and critically evaluate published research results and reports. Also, to become an educated consumer of medical/dental research and apply evidence based decision making. Critique research results to make judgments regarding the relevance, creditably and usefulness to clinical decision making. Allows for application of research results in the clinical setting. 3 s.h.

Course Readings

Group	Title	Author	ISBN
Required	Statistics for Health Sciences	Dancey, Reidy, Rowe	

The course readings are subject to change in the event of extenuating circumstances, research developments, current events, and/or to ensure better learning.

Schedule of Topics and Assignments

Week of	Reading(s)	Proposed Topic	Due/To Prepare for Class
8/24	Chapter 1, 3, 4	Orientation to Course Web Site Course Introduction. An Introduction to the Research Process Descriptive Statistics The Basis of Statistical Testing	Quiz 1 Availiable ONLY August 27, 28, 29 Discussion Question 1 Due August 30
8/31	Chapter 5, 7, 8, 9	Epidemiology Differences Between Two Groups Differences Between Three or More Conditions Testing Associations Between Categorical Variables	Quiz 2 ONLY September 3, 4, 5 Test 1 ONLY September 3, 4, 5
9/7	Chapter 10	Measuring Agreement: Correlational Techniques	Discussion 3 Due September 13 Midterm September ONLY 10, 11, 12
9/14	Chapter 11, 12	Standard Multiple Regression	Discussion question 4 Due September 20
9/21	Chapter 14	Interventions and Analysis of Change	Quiz 3 ONLY September 24, 25, 26

9/28		Quiz 4 October 1, 2, 3 Abstract and Critique Due October 4
10/5	Final Exam	Final Exam October ONLY 6, 7, 8

The course schedule, policies, procedures, and assignments in this course are subject to change in the event of extenuating circumstances, by mutual agreement, and/or to ensure better learning.