



HSM-301: Introduction to Allied Health Statistics and Analysis

Description:

3 credits/126 hours

Prerequisite: None

This course is designed and developed to provide students in health care programs with a beginning understanding of the terms, definitions, and formulas used in computing health care statistics and to provide self-testing opportunities and applications of the statistical formulas. The primary emphasis is on inpatient health care data and statistical computations, but most applications can be transferred to the outpatient or alternative health care setting as well.

Textbook: Basic Allied Health Statistics and Analysis, 5th ed., Darche & Koch – ISBN: 978-1-337-79696-5

Course objectives:

Throughout the course, you will meet the following goals:

- Develop a foundational understanding of statistics and data used in health care settings
- Describe various health care settings and learn to calculate concepts such as census, occupancy, and other occupancy-related statistics
- Understand the calculations for and differentiation between the various types of care that a health services organization may provide
- Learn to gather, organize, analyze, and present collected data
- Learn the fundamentals of research and explain why quality research matters in health care statistics

Contents:

Chapter 1: Health Statistics: Why Are They Important?

Chapter 2: Mathematics: Reviewing the Basics

Chapter 3: Health Data Across the Continuum

Chapter 4: Hospital Census

Chapter 5: Hospital Occupancy

Chapter 6: Hospital Length of Stay

Chapter 7: Hospital Obstetric and Neonatal Statistics

Chapter 8: Miscellaneous Clinical and Nonclinical Statistics

Chapter 9: End-of-Life Statistics: Mortality and Autopsy Rates

Chapter 10: Community Health Statistics

Chapter 11: Statistics: Learning the Basics

Chapter 12: Organizing Data for Analysis

Chapter 13: Displaying Data for Analysis

Chapter 14: Fundamentals of Research

Grading Scale (70% required for passing)

A = 90-100%

B = 80-89.9%

C = 70-79.9%

F = Below 70%

Grade Weighting

Chapter Quizzes..... 50%

Activities 20%

Final Exam 30%

100%