Overview

This course addresses the interdisciplinary and emerging field of data science in healthcare. Students will learn to combine tools and techniques from statistics, computer science, data visualization, and the social sciences to solve problems using data. Topics include data analysis, database management, inferential and descriptive statistics, statistical inference, and process improvement.

Competencies

▲ **Basic Statistical Principles and Nursing Informatics**
   The graduate applies the concepts of data, statistics, databases, statistical modeling, and data management to nursing informatics.

▲ **Statistical Testing in Nursing Informatics**
   The graduate analyzes data from databases, electronic health records, dashboards, remote monitoring devices, telemedicine, and other technologies to support the provision of high-quality and efficient care.

▲ **Predictive Analytics in Nursing Informatics**
   The graduate predicts clinical events or likelihoods from current state and/or trend historical data to plan and resource care needs.

Learning

**Getting Started**

Welcome to Data Science and Analytics. This course has three goals: First, you will develop your understanding of basic statistical concepts. Next, apply your basic understanding of statistics to identify data useful for improving nursing practice. Lastly, you will analyze data to identify areas of risk and improvement. Complete the course in the order it is presented to ensure you your comfort with the course concepts. Your final assessment will be a multiple choice examination, so familiarity with key terms and concepts will be key! After completing the associated readings and activities for each topic, navigate to the Assessment section within the WGU Launch Page to access the assessments for this course.

**Cohort Sign-up**
Assessments

Pre-Assessment Data Science and Analytics

STATUS: Not Attempted
# OF ITEMS: 70
TIME ALLOTTED: 150 minutes
CODE: PEYO

Objective Assessment: Data Science and Analytics

STATUS: Not Attempted
# OF ITEMS: 70
TIME ALLOTTED: 150 minutes
CODE: EYO2

A score of Competent or Exemplary is required to pass all assessments. Passing a preassessment does not guarantee you will pass the high stakes assessment.

On objective assessments, you will be charged a retake fee for the third attempt and every attempt thereafter. For more information click here.

Course Instructor

Course Instructor Group
nursinginfdata@wgu.edu

Course Instructor Responsibility
How to Work with Course Instructors

Announcements