BACHELOR OF SCIENCE WITH A MAJOR IN HEALTHCARE ANALYTICS

Healthcare Analytics Major:

Healthcare is a data-intensive industry, and specialists are required to help transform data into meaningful and usable information for numerous stakeholders. Healthcare analytics is a rapidly emerging field that involves the integration of health sciences, computer science, information science, biostatistics, and cognitive science to drive the management and analytical use of healthcare information. This field develops methods and technologies to acquire, process, and analyze health data, and uses data-informed tools to improve patient care and safety, contributing to a healthier global population and more cost-effective healthcare services. Students in this program will gain the necessary analytical and technical skills required to manipulate, analyze, and interpret health data to provide superior solutions to strategic and operational problems in healthcare. Additionally, students in this highly interdisciplinary program will learn to apply these information technologies effectively, given an understanding of human and organizational behavior and how it relates to health decisions.

Bachelor of Science with a major in Healthcare Analytics Requirements:

General Education Requirements

University Minor Requirements

Healthcare Analytics Major Requirements:

SCI 251	Biology I Principles of Biology	3
SCI 466	Global Health Challenges	3
PSY 260	Introduction to Psychology	3
PSY 375	Health Psychology	3
MATH 350	Statistics II	3
MATH 421	Statistical Analysis With R	3
ISA 221	Introduction to Programming	3
ISA 310	Data Visualization	3
ISA 330	Programming for Data Science	3
ISA 340	Introduction to Machine Learning	3
ISA 341	Database Management System Principles	3
ECO 473	Economics of Health and Medical Care	3
Choose one of the following:		
ISA 391	Information Systems and Analytics Internship	3
ISA 490	Data Science Capstone	3
College of Business OR College of Arts and Science Minor Requirement		
Four Courses required for the minor. Minor can be from either college [2]		

A minimum of 39 credit hours is required for the major.

A minimum 122 credit hours required for graduation.

[1] Include one Lab Science. One science course must be taken at the 300 or 400 level

[2] Some minors may require more than 12 credits

[3] Suggested Electives: ECO 473, ECO 464, LGLS 383, SOC 352, COM 280, SCI 373, SCI 378, ISA 343 or ISA 460