

GRADUATE DIPLOMA IN HEALTH DATA ANALYTICS (PENDING MPHEC APPROVAL)

The Graduate Diploma in Health Data Analytics aims to equip students with essential skills for a dynamic and evolving field. The program combines expertise from Data Analytics, Health Services Management, and Technology Management to provide a comprehensive foundation in health data analytics. In addition, students explore healthcare-focused topics, such as ethical data use, data security, geo-spatial applications, and leveraging data to enhance team-based care and optimize organizational processes.

The Graduate Diploma in Health Data Analytics program integrates real-world engagement and scholarship through coursework designed to build both technical and administrative competencies. By the end of the program, graduates will be prepared to apply their skills, critical thinking, and entrepreneurial mindset to make a positive impact and drive innovation within the healthcare organizations and practices they serve. This diploma is embedded within the Master of Business Analytics (MBAN) program, allowing students to develop advanced skills to create, evaluate, refine, and implement analytics applications that drive business innovation and success.

Learning Objectives

#1 Proficiency in Digital Health Technology: Build expertise in utilizing digital technologies, computing tools, and data analytics relevant to healthcare professionals and individuals pursuing careers in the healthcare sector.

#2 Core Data and IT Competency: Develop and apply essential data and IT skills critical for a wide range of roles within healthcare organizations.

#3 Application of Advanced Analytics Skills: Acquire the ability to apply advanced analytics in health service design and delivery. Enhance coordinated care among providers and partners while improving efficiency through effective process management and practices.

#4 Health Data Integration Capabilities: Master the skills needed to merge, synchronize, and process health data from diverse sources using key computing applications.

Admission Requirements

This program follows the general admission requirements and procedures of the Faculty of Graduate Studies and Research as outlined in the Graduate Studies Academic calendar, with additional requirements as outlined on the Master of Business and Analytics (<https://www.smu.ca/sobey/mban/admissions/>) webpage and application for admission.

Program Requirements

The **Graduate Diploma in Health Data Analytics** is a 15-credit-hour program designed for completion in 12 months of full-time study (3 semesters). The curriculum includes three required courses and two elective courses.

Code	Title	Credit Hours
Required Courses		9
MBAN 5502	Fundamentals of Programming and Database Management	
MBAN 5520	Statistics and Predictive Modeling	
MBAN 5630	Health Data Analytics	
Select two (2) credit hours from the following electives:		6
MBAN 5510	Foundation of Professional Analytics	
MBAN 5530	Ethics and Governance for Analytics	
MBAN 5540	Prescriptive Analytics and Optimization	
MBAN 5550	Enterprise Data Management and Strategy	
MBAN 5560	Machine Learning and Artificial Intelligence	
MBAN 5610	People Analytics and Leadership	
MBAN 5640	Visualization and Data Mining	
Total Credit Hours		15