

BSN-MSN: DATA ANALYTICS

Drive Healthcare Innovation with Data Expertise. St. Catherine University offers a unique Master of Science in Nursing (MSN) program specializing in Data Analytics, designed to empower nurses to lead and transform healthcare through data-driven decision-making. This program uniquely blends advanced nursing principles with a rigorous Data Analytics curriculum, preparing graduates for impactful roles such as Nursing Data Analyst, Clinical Data Scientist, Nursing Informatics Specialist, and Quality Improvement Specialist, as well as opportunities in corporate learning, government, non-profit organizations, and higher education.

Grounded in St. Catherine's values of educational excellence, social justice, and community engagement, this comprehensive program equips you with essential technical and ethical expertise in areas such as data analysis, interpretation, management, governance, predictive modeling, machine learning, health informatics, technology, and evidence-based practice. Recognizing the significant influence of artificial intelligence and machine learning, the program also develops your ability to critically analyze algorithmic bias, data privacy, and ethical considerations, preparing you to advocate for responsible and ethical Data Analytics practices in healthcare.

Curriculum

Code	Title	Credits
Nursing Core Courses		
NURS 7060	Evidence Based Practice	3
NURS 7080	Informatics for Advanced Healthcare Practice and Management	3
NURS 7095	Nurse Informaticist Leading Healthcare Quality Improvement	3
NURS 7140	Foundations of Advanced Nursing Practice	3
NURS 8100	Master's of Science in Nursing Capstone	1
NURS 8150	Leadership for Advanced Nursing Practice	3
STAT 7000	Introduction to Biostatistics	3
Specialty Courses		
DSCI 6300	Data Preparation and Analysis	3
DSCI 7020	Data Ethics, Governance & Social Impact	3
DSCI 7000	Data Visualization and Story Telling	3
DSCI 7040	Predictive Analysis with Machine Learning	3
Elective		
NURS 7XXX	Nurse Educator Bootcamp	1
Total Credits		32

Fall Start

Code	Title	Credits
Fall Term		
NURS 7140	Foundations of Advanced Nursing Practice	3
STAT 7000	Introduction to Biostatistics	3
Spring Term		
DSCI 7020	Data Ethics, Governance & Social Impact	3
NURS 7080	Informatics for Advanced Healthcare Practice and Management	3
Summer Term		
DSCI 6300	Data Preparation and Analysis	3

DSCI 7040	Predictive Analysis with Machine Learning	3
Fall Term		
DSCI 7000	Data Visualization and Story Telling	3
NURS 7060	Evidence Based Practice	3
Spring Term		
NURS 8150	Leadership for Advanced Nursing Practice	3
NURS 7095	Nurse Informaticist Leading Healthcare Quality Improvement	3
Summer Term		
NURS 8100	Master's of Science in Nursing Capstone	1
NURS 7XXX	Nurse Educator Bootcamp	1
Total Credits		32

Spring Start

Code	Title	Credits
Spring Term		
NURS 7140	Foundations of Advanced Nursing Practice	3
STAT 7000	Introduction to Biostatistics	3
Summer Term		
NURS 7080	Informatics for Advanced Healthcare Practice and Management	3
Fall Term		
DSCI 7000	Data Visualization and Story Telling	3
NURS 7060	Evidence Based Practice	3
Spring Term		
NURS 7095	Nurse Informaticist Leading Healthcare Quality Improvement	3
DSCI 7020	Data Ethics, Governance & Social Impact	3
Summer Term		
DSCI 6300	Data Preparation and Analysis	3
DSCI 7040	Predictive Analysis with Machine Learning	3
Fall Term		
NURS 8150	Leadership for Advanced Nursing Practice	3
NURS 8100	Master's of Science in Nursing Capstone	1
NURS7XXX	Nurse Educator Bootcamp	1
Total Credits		32