

# RN-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.

## Nursing - Data Analytics Curriculum

Code	Title	Credits
NURS 3000	NCLEX Exam	6
NURS 5XXX	Holistic Nursing Practice and Professional Development	3
NURS 5XXX	Population and Global Health Nursing for Practicing RNs	3
NURS 5XXX	Transformational Leadership for the Practicing RN	3
NURS 7060	Evidence Based Practice	3
DSCI 6000	Data Visualization	3
NURS 7080	Informatics for Advanced Nursing Practice	3
NURS 7140	Foundations of Advanced Nursing Practice	3
DSCI 7020	Data Ethics, Governance & Social Impact	3
STAT 7000	Introduction to Biostatistics	3
DSCI 6300	Data Preparation and Analysis	3
DSCI	Data Visualization and Storytelling	3
DSCI 7040	Predictive Modeling with Machine Learning	3
NURS 7095	Nurse Informaticist Leading Healthcare Quality Improvement	3
NURS 8100	Capstone	1
NURS 8150	Leadership for Advanced Nursing Practice	3
<b>Total Credits</b>		<b>46</b>

Students may opt to take NURS 7XXX: Nurse Educator Bootcamp. This course is not required for graduation.

Code	Title	Credits
<b>Summer Term</b>		
NURS 5XXX	Holistic Nursing Practice and Professional Development	3

NURS 5XXX	Population and Global Health Nursing for Practicing RNs	3
<b>Fall Term</b>		
NURS 7140	Foundations of Advanced Nursing Practice	3
NURS 5XXX	Transformational Leadership for the Practicing RN	3
<b>Spring Term</b>		
STAT 7000	Introduction to Biostatistics	3
NURS 7080	Informatics for Advanced Nursing Practice	3
<b>Summer Term</b>		
NURS 7060	Evidence Based Practice	3
DSCI 7020	Data Ethics, Governance and Social Impact	3
<b>Fall Term</b>		
DSCI 6300	Data Preparation and Analysis	3
DSCI 7000	Data Visualization and Storytelling	3
<b>Spring Term</b>		
DSCI 7040	Predictive Modeling with Machine Learning	3
NURS 7095	Nurse Informaticist Leading Healthcare Quality Improvement	3
<b>Fall Term</b>		
NURS 8100	Capstone	1
NURS 8150	Leadership for Advanced Nursing Practice	3
<b>Total Credits</b>		<b>40</b>