

NURSING, M.S.N. (INFORMATICS, INNOVATION, & TECHNOLOGY)

Overview

The Master of Science in Nursing: Informatics, Technology, and Innovation prepares nurses to lead digital transformation and technology-enabled care delivery across healthcare systems. This program integrates advanced nursing knowledge with informatics, data analytics, artificial intelligence applications, clinical systems design, and innovation science. Graduates are prepared for roles such as nursing informatics specialist, digital health leader, clinical systems analyst, and healthcare innovation strategist.

This program addresses a critical workforce and healthcare systems need for nurse leaders prepared to manage, evaluate, and innovate within increasingly technology-driven environments. Rapid expansion of electronic health records, artificial intelligence, predictive analytics, telehealth, and digital health platforms requires advanced nursing professionals who possess both clinical expertise and informatics competency.

Graduates will contribute to improved healthcare delivery systems, organizational performance, and patient-centered outcomes through technology-enabled innovation.

The courses in the program will be taught in a 7-week, asynchronous fully online format. The program is comprised of nine credits of core courses, 21 credits of informatics specialization, and 6 credits of capstone courses. The capstone courses include 200 hours of supervised clinical/practice immersion, coordinated with preceptors and partners such as Hackensack Meridian *Health*, with flexibility for remote and site-based experiences

Learning Outcomes

Upon successful completion of the program of studies for Nursing, the student will receive an M.S.N. in Nursing Informatics, Innovation, & Technology, and will have given evidence of the following outcomes and goals:

1. Integrate nursing theory, systems thinking, and evidence-based practice to guide the design and evaluation of informatics solutions in diverse healthcare settings (AACN Essentials Domains: Domain 1 (Knowledge for Nursing Practice), Domain 2 (Person-Centered Care), Domain 4 (Scholarship for Nursing Practice), Domain 5 (Quality and Safety))
2. Demonstrate proficiency in health information systems and data management tools to support clinical decision-making, care coordination, and quality improvement (AACN Essentials Domains: Domain 6 (Interprofessional Partnerships), Domain 8 (Informatics and Healthcare Technologies), Domain 5 (Quality and Safety))
3. Apply ethical, legal, and regulatory principles in the development, implementation, and evaluation of healthcare technology (AACN Essentials Domains: Domain 3 (Population Health), Domain 7 (Systems-Based Practice), Domain 9 (Professionalism))
4. Collaborate with interdisciplinary teams to lead health system transformation through data-driven strategies and informatics innovation (AACN Essentials Domains: Domain 6 (Interprofessional

Partnerships), Domain 7 (Systems-Based Practice), Domain 8 (Informatics and Healthcare Technologies))

5. Use health policy, safety, and quality frameworks to advocate for equitable and effective use of technology in nursing practice (AACN Essentials Domains: Domain 5 (Quality and Safety), Domain 9 (Professionalism), Domain 10 (Personal, Professional, and Leadership Development))
6. Plan, execute, and evaluate an informatics-focused project that addresses a real-world clinical, administrative, or educational challenge, demonstrating leadership in nursing informatics (AACN Essentials Domains: Domain 4 (Scholarship for Nursing Practice), Domain 7 (Systems-Based Practice), Domain 10 (Personal, Professional, and Leadership Development))

Admission

Requirements for Admission

To be admitted to the MSN in Nursing Informatics, Innovation, & Technology program, students must meet the following requirements:

- Possess an earned Bachelor of Science in Nursing (BSN) degree from an accredited institution.
 - Applicants with a bachelor's degree in a related field (e.g., health sciences, information technology, or business) will also be considered on a case-by-case basis.
- Hold an active, unrestricted RN license in the United States (preferably New Jersey, but licensure in other states will be considered).
- Have a minimum undergraduate GPA of 3.0 on a 4.0 scale. Applicants with a lower GPA may be considered on a case-by-case basis with additional supporting materials (e.g., professional experience, certifications).
- Submit:
 - Completed application form
 - Official transcripts from all colleges/universities attended
 - Current professional resume or curriculum vitae (CV)
 - Personal statement outlining goals and interest in nursing informatics
 - Two professional references (one academic, one clinical preferred)

Requirements

| Code | Title | Credits |
|--|---|---------|
| Core Courses (9 credits) | | |
| NU520 | Advanced Nursing Theor | 3.0 |
| NU521 | Role of Advanced Nursing Practice | 3.0 |
| NU522 | Evaluation & Translation of Evidence | 3.0 |
| Informatics Specialization Courses (21 credits) | | |
| NU525 | Foundations of Nursing Informatics | 3.0 |
| NU526 | Systems Lifecycle in Health Informatics | 3.0 |
| NU527 | Data Management & Health Technology | 3.0 |
| NU528 | Transforming Care with Data | 3.0 |
| NU630 | Assessment & Analysis in Informatics | 3.0 |
| NU631 | Ethics & Regulation in Informatics | 3.0 |
| NU632 | Emerging Technology in Nursing & Health | 3.0 |
| Capstone Courses (6 credits) | | |
| NU633 | Capstone I: Project Planning | 3.0 |

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| NU634 | Capstone II: Implementation & Eval | 3.0 |
| Total Credits | | 36.0 |