

Stark State
COLLEGE
STARK STATE COLLEGE
GENERAL SYLLABUS

Course Information

Course Name: Nursing Informatics Technology In Healthcare Settings
Course Number: NSG 430

Required Materials

Textbook(s): Miller: Nursing Informatics: Opportunities and Challenges, Seventh Edition; ISBN: 978-1-9752-4406-4 Huston, C. J. (2024).
Lippincott CoursePoint. <https://thepoint.lww.com/> with Lippincott CoursePoint access

Required Readings: See course calendar

Additional Materials: N/A

Course Outline/Calendar

The date of coverage and order of coverage may be modified based on the faculty member and events beyond the control of faculty members that interfere with class times and teaching.

Week	Content	Assignments	Chapters	Objectives Met
Week 1	Introduction to Nursing Informatics Healthcare Information Systems	Syllabus quiz DQ1: Why Wisdom Matters Quiz 1	Chapter 1: Introduction to Nursing Informatics Chapter 2: Professional Characteristics: Theories and Career Pathways Chapter 3: Essential Computer Concepts Chapter 4: Computer Networks and Online Communication DIKW Model ANA Nursing Informatics Model	1, 4

Week 2	Documentation and Data Standards Data Management and Integrity	Lippincott (Chapter 2) including pre and posttest: Lippincott: Nursing Informatics Theories Interactive Module Lippincott: Nursing Informatics as a Career Interactive Module Quiz 2 Case Study: Digital Professionalism and Ethical Decision Making in Healthcare	Chapter 1: Introduction to Nursing Informatics (Review) Chapter 2: Professional Characteristics: Theories and Career Pathways (Review) Chapter 11: Roles and Responsibilities of the Informatics Nurse Chapter 15: Protecting Patient Privacy and Confidentiality Professional Organizations: ANA Nursing Informatics, HIMSS, AMIA ANA Social Media guidelines Video resource on HIPPA Simple Nursing. (2025, July 18). Legal & Ethical Nursing Essentials: HIPAA, Torts, & NCLEX Tips. [Video]. https://www.youtube.com/watch?v=LVIG-CkI5zs&t=20s	1, 4
Week 3	Data Collection and Clinical Decision-Making Evidence-Based Practice and Informatics	DQ 2: Developing Informatics Tools Technology and Patient Centered Care Assignment	Chapter 7: Finding Information Chapter 8: Collecting Data Chapter 9: Analyzing Data Journal Article: Gallagher, D., Bentley, B., Barry, A., Fraccola, A., Santos, R., Glenn, A., Howard, J., Kamath, A., & Flanagan, K. (2024). Development of an Emergency Department Case Management Case-Finding Tool. Professional case management, 29(3), 102–110. https://doi.org/10.1097/NCM.0000000000000699 Digital Technologies in Healthcare	2
Week 4	Quality Improvement and Patient Safety Clinical Decision Support Systems	DQ3: Safety Metrics in Clinical Care Case Study: Vanderbilt Medication Error	Chapter 16: Applying Nursing Informatics to Patient Safety Agency for Healthcare Research and Quality Agency on Healthcare Research and Quality. (2026, July 16). Patient safety organizations. https://psa.ahrq.gov/ Joint Commission: National Patient Safety Goals oint Commission. (2026, July 16). National performance goals (NPGs). https://www.jointcommission.org/en-us/standards/national-performance-goals Institute for Healthcare Improvement Institute of Healthcare Improvement. (2026, July 16). How IHI improves health care worldwide. https://www.ihl.org/	3, 4

			Obyn Media. (2026, February 13). The RaDonda Vaught Case Explained. [Video]. https://www.youtube.com/watch?v=prWM5vhtOpg	
Week 5	Health Data Analytics Population Health Informatics	Lippincott (Chapter 7) including pre and posttest: Data Integrity, Management, and Accuracy Nurse Quality Improvement Consultant Assignment Quiz 3: Data Terminology	Chapter 9: Analyzing Data (Review) Chapter 10: Disseminating Data Center for Medicare and Medicaid AHRQ Data Infographics Recall by Dataiku. (2022, August 11). How data is used in healthcare. [Video]. https://www.youtube.com/watch?v=V8TRt-2A0_4 TedxTalks. (2024,October 21). How AI can heal healthcare- Edmund Jackson. [Video]. https://www.youtube.com/watch?v=7ZsyYCZB3Nw	2, 5
Week 6	Leadership and Informatics Interprofessional Collaboration	Interprofessional Communication Case Study Quiz 4: Applying Nursing Informatics	Chapter 14: Information Literacy: A Road to Improved Patient Outcomes Chapter 15: Protecting Patient Privacy and Confidentiality Chapter 16: Applying Nursing Informatics to Patient Safety (Review) Lippincott PP slides (Chapter 15) Interprofessional education video E-Learning University Medical Center Groningen. (2022, May 12). Introduction to interprofessional collaboration and interprofessional education. [Video]. https://www.youtube.com/watch?v=wq48o5ZwHAY Informatics and professional collaboration	5, 6
Week 7	Emerging Healthcare Technologies Informatics Project Planning	Final Project	Chapter 5: Mobile Healthcare Technology Chapter 6: Telehealth SSC Library Resource page review Lehigh University. (2026, July 10). Library guides: understanding source types. https://libraryguides.lehigh.edu/c.php?g=1490018&p=11120934 Instructional video on EBP/Literature Search Price, C. (2021, April 10). Evidence-based literature: where to look and what to look for. https://www.youtube.com/watch?v=VbXs_qK1Pq0	1-6
Week 8	Evaluation of Informatics Solutions Future Directions in Nursing Informatics	DQ 4: Challenge and Opportunities in AI and Nursing DQ5: Final Project Reflection	Nursing and AI Tools page Final Project review	1, 4, 5, 6

