

## NURS 3725 - Nursing Informatics

Fall 2026 Syllabus, Section A02, CRN 41848,

Credit hours: 3

### Instructor

**Laura Calcagni DNP, RN, CNE**

Email: lrcalcagni@ysu.edu

### Public Instructor Information

**Instructor Title:** Associate Professor

**Instructor Professional Qualifications:**

DNP, Nursing Educational Leadership, Case Western Reserve University (2022)

MSN, Nursing Education, Youngstown State University (2013)

BSN, Nursing, Youngstown State University (1999)

Certification, Nurse Educator, National League for Nursing (2013- Present)

**Office Location:** Cushwa Hall 3106 (in the 3102 office suite)

**Office Phone:** 330-941-3294



### Course Description

3725. Nursing Informatics. This course explores nursing and health care informatics and its application to nursing practice and nursing education. Includes technological strategies to access, evaluate and document information and apply skills to patient care in the nursing profession. Development of computer skills to be successful in the online teaching format are included. Prereq.: admission to online RN-BSN completion program; Valid RN license. 3 s.h.

### Course Readings

| Group    | Title                                                           | Author                | ISBN          |
|----------|-----------------------------------------------------------------|-----------------------|---------------|
| Required | Informatics and Nursing: Opportunities and Challenges (7th ed.) | Kristi Sanborn Miller | 9781975220662 |

Textbook is required (physical or electronic copy). Electronic resources offered with the eBook are optional.

The course readings are subject to change in the event of extenuating circumstances, research developments, current events, and/or to ensure better learning.

### Tentative Course Schedule

| Week of | Reading(s)                                                                                                                                                                                                                                                                                                                  | Proposed Topic                                                                                                                    | Due/To Prepare for Class                                                                                                                                                                                                                                                                                                                                                                |
|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 10/19   | Miller Ch. 1 (pp. 3-21) Intro to Nursing Informatics<br>Miller Ch. 2 (pp. 22-40) Professional Characteristics<br>Video: Course Introduction<br>Video: Nursing Informatics Overview<br>Video: EMR vs EHR: What's the Difference?<br>Video: What is Netiquette?<br>Video: The Basics of Citing and Referencing in APA 7th ed. | Intro to Nursing Informatics<br>Differences between EMR and EHR<br>Netiquette<br>Introduction to APA 7th edition citation format. | Start by reading the chapters and watching the videos assigned for this week. Next, review the grading rubric for the Module 1 Discussion assignment.<br>Due Wednesday: Introduction Discussion Post with photo upload.<br>Due Sunday: Discussion responses to 2 peers; Course Quiz; Submit Y Card photo to allow time for photo approval email to arrive for submission in Blackboard. |



|       |                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 10/26 | Miller Ch. 3 (pp. 43-56) Essential Computer Concepts<br>Miller Ch. 4 (pp. 57-87) Computer Networks & Online Communication<br>Miller Ch. 7 (pp. 135-160) Finding Information<br>Video: Securing Your Health: Understanding Cybersecurity in Healthcare<br>Video: Social Media Guidelines for Nurses<br>Video: Anna Dermenchyan and the Importance of Professional Networking in Nursing. | Basic computer and network concepts<br>Online communication and professional networking<br>Social media guidelines for nursing<br>Cybersecurity in healthcare<br>Finding reliable sources for healthcare information       | Start by reading the chapters and watching the videos assigned for this week. Next, review the grading rubrics for the Module 2 Discussion and Scholarly Article Submission assignments. The APA Resources folder on the course home page includes information on APA format for citations.<br>Due Wednesday: Discussion Post with citations; Submit Y Card Photo approval confirmation email in Blackboard. If Y Card photo was rejected, resubmit a new picture and upload your photo approval email once received.<br>Due Sunday: Discussion responses to 2 peers; Submit 2 scholarly nursing articles and a brief statement describing the selected topic for your Module 5 paper using these articles. |
| 11/2  | Miller Ch. 9 (pp. 176-195) Analyzing Data<br>Miller Ch. 11 (pp. 219-249) Roles & Responsibilities of the Informatics Nurse<br>Video: I-Know Insights: Finding Information in Nursing<br>Video: What is a Wiki?<br>Video: How to Edit a Post in WordPress Quickly and Easily                                                                                                             | Roles and responsibilities of the informatics nurse<br>Finding and analyzing data<br>Professional collaboration with technology<br>Basic Wiki concepts.                                                                    | Start by reading the chapters and watching the videos assigned for this week. Next, review the grading rubrics for the Module 3 Discussion and Wiki assignments. The APA Resources folder on the course home page includes information on APA format for citations.<br>Due Wednesday: Discussion post with citations; Initial Wiki project contributions with citations.<br>Due Sunday: Discussion responses to 2 peers; Wiki final contributions and formatting/editing updates.                                                                                                                                                                                                                           |
| 11/9  | Miller Ch. 5 (pp. 88-111) Mobile Healthcare Technology<br>Miller Ch. 6 (pp. 112-132) Telehealth<br>Miller Appendix C (pp 392-405) Authoring Scholarly Slide Presentations<br>Video: Innovations in Telehealth<br>Video: TeleSpecialists TeleStroke Alert<br>Video: Telehealth Home Monitoring<br>Video: 10 Promising Healthcare Technologies                                            | Utilization of mobile healthcare technology<br>Telehealth services and innovations<br>Telespecialists and services<br>Telehealth home monitoring and technology for health management<br>Authoring scholarly presentations | Start by reading the chapters and watching the videos assigned for this week. Download the free Microsoft Office Suite software to your computer. Contact YSU's IT Service Desk for assistance if needed. The online version of PowerPoint will not save your audio recording. Next, review the grading rubric for the Module 4 PowerPoint assignment. The APA Resources folder on the course home page includes information on APA format for citations.<br>No Wednesday assignment due, but download the full version of Microsoft Office (if not done already) and ensure you can save a PowerPoint slide recording.<br>Due Sunday: PowerPoint with Audio Narration recording and source citations.      |



|       |                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 11/16 | Miller Ch. 14 (pp. 291-312) Information Literacy: A Road to Improved Patient Outcomes<br>Miller Appendix D (pp. 406-425) Authoring Scholarly Word Documents<br>Video: Health Literacy: An Overview<br>Video: 5 Things to Know About Health Literacy<br>Video: Teach-Back MedAnimation series (5 parts)                                                                                    | Information and health literacy concepts<br>Health literacy and patient education<br>Patient education strategies for improved health maintenance<br>Use of teach-back to assess patient comprehension of education provided<br>Authoring scholarly student papers with use of APA format. | Start by reading the chapters and watching the videos assigned for this week. Next, review the grading rubric for the Module 5 EBP Research Paper assignment. The APA Resources folder on the course home page includes information on APA format for citations and paper guidelines.<br>No Wednesday assignment due, but aim to complete a rough draft of your paper by mid-week so there is time to work on edits and APA formatting.<br>Due Sunday: EBP Paper Submission in APA 7th edition format. |
| 11/23 | Miller Ch. 15 (313-330) Protecting Patient Privacy & Confidentiality<br>Miller Ch. 16 (331-360) Applying Nursing Informatics to Patient Safety<br>American Nurses Association (ANA) Code of Ethics (posted link)<br>Video: 6 Most Common HIPAA Violations<br>Video: The Challenge of Ethics & AI in Healthcare<br>Video: High-Tech Hospital Uses AI in Patient Care                       | Legal and ethical issues in nursing informatics<br>Patient privacy and confidentiality with informatics and technology<br>HIPAA concepts and common violations<br>Nursing informatics and patient safety<br>Ethics and innovation with AI use in healthcare                                | Start by reading the chapters and watching the videos assigned for this week. Next, review the grading rubric for the Module 6 Video assignment. The APA Resources folder on the course home page includes information on APA format for citations.<br>No Wednesday assignment due but work on planning for your video presentation.<br>Due Sunday: Video Presentation and reference list (APA format)                                                                                                 |
| 11/30 | Miller Ch. 12 (pp. 250-268) Interoperability at the National & International Levels<br>Miller Ch. 13 (pp. 269-288) Electronic Health Records & Standardized Nursing Terminology<br>2025 Future Ready Healthcare Survey Report (posted link)<br>Video: How to Achieve True Interoperability in Healthcare Systems<br>Video: How Interoperability & Data Sharing Can Improve Patient Safety | Standardized terminology with electronic health records<br>Interoperability at the National and International levels<br>Interoperability and data sharing for improved patient safety<br>Future of informatics technology, AI, and healthcare delivery                                     | Start by reading the chapters and watching the videos assigned for this week. Next, review the grading rubrics for the Module 7 Discussion assignment. The APA Resources folder on the course home page includes information on APA format for citations.<br>Due Wednesday: Discussion post with citations.<br>Due Saturday: Discussion responses to 2 peers; Ch. 12 & 13 Quiz; Course Evaluation Survey                                                                                               |

The course schedule, policies, procedures, and assignments in this course are subject to change in the event of extenuating circumstances, by mutual agreement, and/or to ensure better learning.