DCN Denver College of Nursing

HIT420
Course Syllabus

HIT420: Healthcare Informatics
Total Contact Hours: 50
Quarter Credit Hours: 5.0
Prerequisite(s): None

Course Description:
This course is the foundation for the improvement of nursing practice and patient outcomes through the application of knowledge and understanding of the history, terminology, and impact of informatics to the promotion of nursing professionalism in patient care and safety.
Pre-requisite(s): Admission to the RN to BSN program option.

Course Objectives (COs): By the end of the course, the student should be able to:
1. Analyze the role of informatics in health care. (GEO 1)
2. Analyze the impact of informatics on health care. (GEO 1)
3. Analyze information systems used in health care delivery. (GEO 1)
4. Describe the process for selecting information systems in health care. (GEO 1)
5. Explain the implementation of health care information systems. (GEO 1, 2)
6. Analyze the use of electronic health records. (GEO 1, 2, 3)
7. Analyze the use of personal health records. (GEO 1, 2, 3, 4)
8. Analyze the use of Telehealth. (GEO 1, 2, 3)
9. Explain how the security of patient information can be enhanced. (GEO 1, 2, 3)
10. Explain the impact of regulatory oversight in health care informatics. (GEO 3)
11. Analyze continuity planning in relation to disasters. (GEO 1, 2, 3)
12. Determine the relationship between informatics and patient outcomes. (GEO 1, 2, 3, 4, 5)
13. Analyze the role of the Internet in health care informatics. (GEO 1, 2, 3, 5)

Refer to the DCN catalog for the student learning outcomes (SLO's) for the general education program.

Required Textbooks:
- American Psychological Association. (2010). *Publication manual of the American Psychological Association* (6th ed.). Washington, DC: American Psychological Association. (NOTE: Not available as an e-book so must be purchased.)
- Hebda, T. L., Hunter, K., and Czar, P. (2019). *Handbook of Informatics for Nurses & Healthcare Professionals* (6th ed.). Upper Saddle River, NJ: Pearson.

Online Attendance/Participation:
For the purpose of participation and attendance, the academic week begins on Monday at 12:00am Mountain Time and ends Sunday at 11:59pm Mountain Time. Attendance is monitored through class participation. Failure to log-in for fourteen (14) consecutive days will result in being dropped from the course.

Online students are expected to participate in each of their scheduled classes through the week. A student participates in class by doing the following:
- Submitting a post to the discussion board;
- Posting a paper, project, or other academic assignment; and/or completing a quiz,
- For 11 week courses that begin on a Monday:
  - Post initial post to the weekly discussion by 11:59pm MT Wednesday
  - Complete weekly quizzes by 11:59pm MT Sunday (no points available after this deadline)
  - Weekly assignments, where applicable, are due by 11:59pm MT Sunday
  - **For week 11:** the quiz and assignment (if applicable) are due by 11:59pm MT Friday

Denver College of Nursing

Post any remaining weekly assignments as per instructions in the syllabus. A student who fails to participate in their scheduled classes for any two consecutive weeks will be withdrawn from the College for non-attendance.

Syllabus Review:
Online students must provide acknowledgement of the course syllabus review posted in the online classroom within the first two weeks of the quarter. Not complying with this requirement will result in the student receiving a zero for every assignment thereafter until the acknowledgement of the syllabus is complete.

Course Evaluations:
A student must achieve at least a 78% after having completed all graded assignments in order to pass this course. No points will be assigned to non-academic or unplanned activities such as attendance, remediation, bonus points, or extra credit. All grades will be rounded to the hundredth decimal place. No final course grades will be rounded above the hundredth decimal place.

Evaluation components of this course are as follows:

Method of Evaluation	Point Value
Week 1	
Discussion 1.1	60
Assignment 1.1	60
Quiz	20
Week 2	
Discussion 2.1	60
Assignment 2.1	60
Quiz	20
Week 3	
Discussion 3.1	60
Assignment 3.1	60
Quiz	20
Week 4	
Discussion 4.1	60
Assignment 4.1	60
Quiz	20
Week 5	
Discussion 5.1	60
Assignment 5.1	60
Quiz	20
Week 6	
Discussion 6.1	60
Assignment 6.1	60
Quiz	20
Week 7	
Discussion 7.1	60
Assignment 7.1	60
Quiz	20
Week 8	
Discussion 8.1	60
Assignment 8.1	60
Quiz	20

Denver College of Nursing

Week 9	
Discussion 9.1	60
Assignment 9.1	60
Quiz	20
Week 10	
Discussion 10.1	60
Assignment 10.1	60
Quiz	20
Week 11	
Discussion 11.1	60
Assignment 11.1	60
Quiz	20
Total	1540

Unlike a traditional classroom-based course, students do not need to show up to class at a specific time every day to earn class participation grades in an asynchronous online course. Instead, students need to complete the online lesson presentations, assignments, quizzes, and discussions by the due dates.

Missed Assignments:
Assignments, discussions, and projects may not be repeated to improve a grade.
All late quizzes, projects and assignments will be penalized per day (including weekends) up to a maximum of 10% if submitted within 7 days from the due date. If the work is not complete within 1 week (7 days), the student will receive a zero for the assignment, quiz and/or project. Quizzes may be repeated to improve a grade after initial attempt, but all attempts must be complete by the weekly deadline (Sunday at 11:59 PM). Discussion posts and peer responses must be submitted in the assigned week, following the due dates outlined in this syllabus. Initial posts and peer responses have different due dates. Any discussion posts received after the end of the week when they are due (Sunday at 11:59 pm) will receive a zero. All student work submitted for grading is due by the end of the course.

DCN Policies:
Students are required to adhere to DCN policies and follow student conduct code. Any violation of the college policies or other acts of academic dishonesty (plagiarism, cheating, etc.) will result in a 0 for the given assignment; students are subject to direct counseling and reporting by faculty.

More information regarding DCN mission, policies, courses, and the student code of conduct may be found in the current DCN Catalog and Student Handbook (available for download in the online classroom).

Copyright Infringement Policy:
Denver College of Nursing respects the copyrights of all books and instructional materials, including music, movies, software, digital media, and other literary and artistic works, and acknowledges that it is in full compliance with the provisions of the U. S. Copyright Law of 1976, as amended, (Title 17, United States Code) and the Digital Millennium Copyright Act (DMCA, 2000). Students enrolled in a course or program at the College are required to respect the proprietary rights of owners of copyrights and refrain from actions that may infringe upon those rights. For more information about copyright law, please visit the U.S. Copyright Office.

The penalties for violation of United States copyright law can be severe. Employees and students who willfully disregard copyright law place themselves at risk of civil and criminal legal action. Individuals who engage in infringing activities also place the college at risk of legal action. Any individual associated with Denver College of Nursing who infringes on Copyright Law may face disciplinary action by the College as appropriate under the circumstances, including termination or dismissal, and may be subject to civil and/or criminal liability. Incidents of suspected copyright infringement in an academic context should be reported to the Dean of Nursing Education or designee.

Denver College of Nursing

Class Calendar and Assignments:

DATE		Lecture	Assigned Reading	Assessment
WEEK 1 Course Objective (CO): 1	GEO: 1	**Informatics In Health Care** • History of Health Care Informatics • Computer and Health Care Information Systems • Improving Patient Safety with Health Care Informatics	*Handbook of Informatics for Nurses & Healthcare Professionals* • Chapter 1, "An Overview of Informatics in Healthcare" • Chapter 3, "Effective and Ethical Use of Data and Informatics" • Chapter 8, "Healthcare Information Systems" • Chapter 15, "The Role of Standardized Terminology and Language in Informatics" • Chapter 18, "Consumer Health Informatics" • Appendix A, "Hardware and Software"	**Discussion Forum:** Informatics and Patient Safety **Assignment:** 1.1: Computer and Information Systems in Health Care Complete Quiz 1
WEEK 2 (CO): 2	GEO: 1	**The Impact of Health Care Informatics on Nursing** • The Role of Informatics in Nursing • The Nurse's Role in Informatics • Using Informatics to Support Professional Development	*Handbook of Informatics for Nurses & Healthcare Professionals* • Chapter 4, "Electronic Resources for Healthcare Professionals" • Chapter 9, "Strategic Planning, Project Management, and Health Information Technology Selection" • Chapter 11, "System Implementation, Maintenance, and Evaluation" • Chapter 17, "Using Informatics to Educate"	**Discussion Forum:** My Experience with Informatics **Assignment:** 2.1 The Nurse's Role in Informatics Complete Quiz 2
W E	GEO: 1, 2, 3, 5	**The Role of the Internet in Health Care Informatics** • Internet Development	*Handbook of Informatics for Nurses & Healthcare Professionals* • Appendix B, "The Internet and	**Discussion Forum:** The Internet: Privacy and Safety Concerns

		in Health Care • Internet Concerns in Health Care • Concerns Pertaining to Health- Related Information on the Internet • Evaluation of Health-Related Information on the Internet	the World Wide Web "	**Assignment:** 3.1 The Internet and Health Care Complete Quiz 3
WEEK 4 (CO): 3	**GEO: 1**	**Information Systems** • Clinical Information Systems • Administrative Systems • Smart Technology • User-Friendly Informatics Systems	*Handbook of Informatics for Nurses & Healthcare Professionals* • Chapter 10, "Improving the Usability of Health Informatics Applications"	**Discussion Forum:** Clinical Information Systems in Action **Assignment:** 4.1 User-Friendly Health Care Informatics Systems Complete Quiz 4
WEEK 5 (CO): 4, 5	**GEO: 1, 2**	**Implementing Information Systems** • The Initiation of Information Technology Projects • Selecting New Informatics Systems • Implementing Informatics Systems	*Handbook of Informatics for Nurses & Healthcare Professionals* • Chapter 8, " Healthcare Information Systems" • Chapter 12, "Workforce Development" • Chapter 14, "Information Networks and Information Exchange"	**Discussion Forum:** Planning for a New Informatics System **Assignment:** 5.1 Implementing Informatics Systems Complete Quiz 5
WEEK 6 (CO): 6	**GEO: 1, 2, 3**	**Electronic Health Records** • Electronic Health Records Development • Electronic Health Records Implications • Implementing Electronic Health Records	*Handbook of Informatics for Nurses & Healthcare Professionals* • Chapter 7, "Electronic Health Record Systems"	**Discussion Forum:** EHR and the Quality of Nursing **Assignment:** 6.1 Implementing Electronic Health Records Complete Quiz 6

WEEK 7 (CO): 7	**GEO: 1, 2, 3, 4**	**Personal Health Records** • Personal Health Records Development • Personal Health Records Implications • Personal Health Records Concerns	*Handbook of Informatics for Nurses & Healthcare Professionals* • Chapter 18, "Consumer Health Informatics" o Consumer Health Informatics Applications	**Discussion Forum:** The Impact of Personal Health Records **Assignment:** 7.1 Personal Health Records: Patient Concerns Complete Quiz 7
WEEK 8 (CO): 8	**GEO: 1, 2, 3**	**Telehealth** • The Development of Telehealth • Telehealth in Nursing Practice • Telehealth Concerns	*Handbook of Informatics for Nurses & Healthcare Professionals* • Chapter 19, "Connected Healthcare (Telehealth and Technology-Enabled Healthcare)"	**Discussion Forum:** Telehealth and Nursing **Assignment:** 8.1 Concerns Surrounding Telehealth Complete Quiz 8
WEEK 9 (CO): 9	**GEO: 1, 2, 3**	**Enhancing the Privacy and Security of Patient Information** • Public Policy Related to Health Care Informatics • Accreditation and Health Care Informatics • The Role of Informatics in Reimbursement	*Handbook of Informatics for Nurses & Healthcare Professionals* • Chapter 13, "Information Security and Confidentiality"	**Discussion Forum:** Confidentiality and the Protection of Patient Information **Assignment:** 9.1 Mobile Access Privacy Concerns Complete Quiz 9
WEEK 10 (CO): 10	**GEO: 3**	**Information Technology Oversight** • Sentencing Discretion and Philosophies • Types of Sanctions • Sanctions and Punishment Philosophies	*Handbook of Informatics for Nurses & Healthcare Professionals* • Chapter 6, "Policy, Legislation, and Regulation Issues for Informatics Practice" • Chapter 9, "Strategic Planning, Project Management, and Health Information Technology Selection" (Review)	**Discussion Forum:** Informatics Meets Health Care Policy **Assignment:** 10.1 Accreditation: Improving Quality Related to Informatics Complete Quiz 10

Denver College of Nursing

| WEEK 11 (CO): 11, 12 | GEO: 1, 2, 3, 4, 5 | **Continuity Planning and Patient Outcomes**
• Disasters Impacting Health Care Informatics
• Health Care Informatics Recovery
• Developing a Continuity Plan Implementing a Continuity Plan
• Using Informatics to Support Evidence-Based Practice
• Using Informatics to Support Research in Public Health
• Informatics and Patient Education | *Handbook of Informatics for Nurses & Healthcare Professionals*
• Chapter 5, "Using Informatics to Support Evidence-Based Practice and Research"
• Chapter 14, "Information Networks and Information Exchange" (Review)
• Chapter 16, "Continuity Planning and Management (Disaster Recovery)
• Chapter 20, "Public Health Informatics"
   • Public Health Informatics | **Discussion Forum:**
Recovery Following a Disaster

Assignment:
11.1 Informatics: Aiding Public Health and Evidence- Based Practice

Complete Quiz 11 |