UNIVERSITY OF FLORIDA

COLLEGE OF NURSING

COURSE SYLLABUS

SPRING 2015

COURSE NUMBER: NGR 7871, Section 2478

COURSE TITLE: Nursing Informatics and Data Management

CREDITS: 3

PLACEMENT: DNP Program

PREREQUISITES: NGR 6101 Theory and Research for Nursing

# FACULTY Robyn P. Gleason PhD, MPH, ARNP, FNP-BC

[rgleason@ufl.edu](mailto:rgleason@ufl.edu) HPNP2224 (352) 284-2123 Office hours: Thursday, 2:00-4:00pm

COURSE DESCRIPTION: This course provides a systematic application of the use of information science and technology to support patient care and provide leadership within health care systems and/or academic settings.. Emphasis is on the use of information systems/technology to evaluate programs of care, outcomes of care, and care systems to inform quality improvement, financial decision-making, selection and evaluation of information systems and patient care technology, and related ethical, regulatory, and legal issues.

COURSE OBJECTIVES: Upon completion of this course, the student will be able to:

1. Identify terminology, concepts, technology and systems in the context of informatics.
2. Demonstrate informatics literacy skills in complex decision making.
3. Evaluate technical and scientific health information appropriate for various users’ needs, including patients and their caregivers.
4. Analyze the design of clinical information systems and patient care technologies that promote safe, quality, and cost-effective care.
5. Evaluate technology systems that capture data on variables for the evaluation of nursing care.
6. Evaluate ethical and legal issues within health systems relating to the use of information technology, communication networks, and patient care technology.

COURSE SCHEDULE

E-Learning in Canvas is the course management system that you will use for this course. E-Learning in Canvas is accessed by using your Gatorlink account name and password at <https://lss.at.ufl.edu/>. There are several tutorials and student help links on the E-Learning login site. If you have technical questions call the UF Computer Help Desk at 352-392-HELP or send email to [helpdesk@ufl.edu](mailto:helpdesk@ufl.edu).

It is important that you regularly check your Gatorlink account email for College and University wide information and the course E-Learning site for announcements and notifications.

Course websites are generally made available on the Friday before the first day of classes.

TOPICAL OUTLINE

1. Terminology, concepts, technology, and systems used in informatics
2. Past, present, and future role of technology in revolutionizing/transforming advanced nursing practice

TOPICAL OUTLINE (continued)

1. Choosing, implementing, and evaluating appropriate clinical information systems for advanced nursing practice
2. Use of health care technologies in clinical decision making, quality improvement, patient education, and practice management
3. Use and effects of technology in nursing education
4. Leadership role of advanced practice nursing in health care informatics
5. Analysis of evolving issues in the field of nursing informatics
6. Legal and ethical implications of health care technology

TEACHING METHODS

Synchronous and asynchronous online lectures; social media interactions, readings, case studies, exposure to experts, media, and electronic sources

LEARNING ACTIVITIES

Class participation, interaction on social media, written assignments, team project/presentation

EVALUATION METHODS/COURSE GRADE CALCULATION

Content sharing: 30%; Case studies: 20%; Writing Assignment 20%; Team Project: 30%

*Assignments will be graded/returned within 3 weeks unless otherwise notified.*

MAKE UP POLICY

There are no exams in the course. Instructors will make an effort to accommodate **reasonable** requests regarding due dates of assignments.

GRADING SCALE/QUALITY POINTS

A 95-100 (4.0) C 74-79\* (2.0)

A- 93-94 (3.67) C- 72-73 (1.67)

B+ 91- 92 (3.33) D+ 70-71 (1.33)

B 84-90 (3.0) D 64-69 (1.0)

B- 82-83 (2.67) D- 62-63 (0.67)

C+ 80-81 (2.33) E 61 or below (0.0)

\* 74 is the minimal passing grade

For more information on grades and grading policies, please refer to University’s grading policies: <http://gradcatalog.ufl.edu/content.php?catoid=2&navoid=762#grades>

REQUIRED TEXTS

There are no required texts for this course. Readings for each section of the course will be posted on the course website.

RECOMMENDED TEXTS

Saba, V.K., & McCormick, K.A. (Eds.). (2011) *Essentials of nursing informatics* (5th ed.). McGraw-Hill Companies, Inc., USA. ISBN: 978-0-07-174371-6

University and College of Nursing Policies:

Please see the College of Nursing website for a full explanation of each of the following policies - <http://nursing.ufl.edu/students/student-policies-and-handbooks/course-policies/>.

Attendance

Academic Honesty

UF Grading Policy

Accommodations due to Disability

Religious Holidays

Counseling and Mental Health Services

Student Handbook

Faculty Evaluations

Student Use of Social Media

WEEKLY CLASS SCHEDULE

**Live Online Classes on selected Wednesdays at 8 pm.**

**Readings posted on Canvas prior to each Unit.**

|  |  |  |
| --- | --- | --- |
| DATE | TOPIC | ASSIGNMENTS **(all due by 11:55 pm)** |
| **NIT 1: Concepts, technology, systems, terminology** | | |
| 1/6-11 | NGR 7871 Overview  Technology & systems Terminology | Review Syllabus & Welcome  Review Scholarly Writing documents & links  Begin Content Sharing assignment |
| 1/12-18  **Live Online Class 1/14** | Social Media 1 “About Me”  **post by 1/15**  **respond by 1/20** |
| **UNIT 2: Technology and the transformation of health care practice** | | |
| 1/19-25  *Monday 1/19: Holiday* | Legal and ethical implications of HIT  Role of technology in changing healthcare practice  Mobile apps | Writing Assignment ***topic*** **due 2/3** |
| 1/26-2/1 |
| 2/2-8 |
| 2/9-15  **Live Online Class 2/11** |
| **UNIT 3: Practice applications** | | |
| 2/16-22 | Choosing, implementing, and evaluating clinical information systems  Use of HIT in decision making, QI, patient education, and practice management  Workflow & Project Management | Case study 1 **due 2/17**  Team Project ***topic* due 3/10**  Content Sharing 2 “EHR planning/implementation”  **post by 3/12**  **respond by 3/17** |
| 2/23-28 |
| 3/9-15 |
| 3/16-22  **Live Online Class 3/18** |
| 3/23-29 |
| **UNIT 4: Education and leadership applications & Evolving issues in health care informatics** | | |
| 3/30-4/5 | Technology in nursing education  Leadership role of APNs in HIT  Nursing research applications  Current & future informatics issues: US & global | Writing Assignment **due 3/31**  Content Sharing 3 “Tech in nursing education & research”  **post by 4/2**  **respond by 4/7**  Team Project **due 4/14**  Team Project peer and team evals **due 4/21** |
| 4/6-12 |
| 4/13-19 **MANDATORY**  **Live Online Class 4/15** |
| 4/20-22 |
| 4/23-30 | No classes or assignments | |

Approved: Academic Affairs Committee: 02/05; 03/05; 05/07; 10/12

Reviewed: Leadership: 06/07; 10/12

Approved: Faculty: 03/05; 06/07; 10/12

Approved: UF Curriculum Committee: 02/06; 01/13