

Oakland University School of Nursing

Nursing Informatics

NRS 2021 (221)

CRN #11536

Faculty:

**Renee Mirovsky DNP, ANP-BC
Full-time Adjunct Instructor**

Winter 2018

COURSE NUMBER: NRS 2021 (221) – CRN #11536

CREDIT & HOUR	Credits	Hrs/Wks	Total Hours
	Semester		
	<u>2</u>	<u>4 x 7</u>	<u>28</u>

COURSE TITLE: Nursing Informatics

CLASS TIME January 3, 2018 – February 17, 2018

& LOCATION: Online

FACULTY OF RECORD: Renee Mirovsky, DNP, RN, ANP-BC

Full Time Adjunct Instructor

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PREREQUISITES

Prerequisites: RN-BSN: WRT 160

Pre and/or Co-requisites: RN-BSN: NRS 310

COURSE OVERVIEW

This course introduces students to basic healthcare informatics topics, tools, and techniques. This course will focus on providing students with the foundational knowledge needed to use information management and patient care technologies to deliver safe and effective care.

COURSE OBJECTIVES

1. Explore the foundations of information management and patient care technologies.
2. Discuss the major information management and patient care technology systems.
3. Discuss relevant healthcare informatics topics that are essential to provide safe and effective care.
4. Discuss the legal and ethical principles in regard to information management and patient care technology.

ESSENTIAL CONTENT

Foundations of healthcare informatics

Major healthcare information technology systems

Clinical information system design, implementation, and evaluation

Technology and its relationship to professional nursing practice

Consumer informatics and social networking in healthcare

Legal, ethical, and socio-technical principles related to healthcare technology and professional nursing practice

TECHNICAL REQUIREMENTS

All e-Learning courses at Oakland University are delivered using a learning management system called Moodle that allows instructors to design entire courses online or to enhance a classroom-based course. The Moodle software resides on a server allowing students to access it via a web browser, e.g. Mozilla, Firefox. Each course is uniquely designed by the instructor who may include some of the following components in his/her web-based or web enhanced course: course syllabus, course material/content, course assignments, quizzes/tests, hyperlinks to other websites on the Internet and/or other OU web pages, discussion boards, Internal email, and the course grade book.

Logging into Moodle

Students login to Moodle with their NetID (oakland.edu email) account password. Please remember that anytime you change your NetID password, it will be reflected in your Moodle login.

- Open the Moodle Login page: <https://moodle.oakland.edu>
- Log-in using the first part of your NetID username and password, e.g. if your email is jwilson3@oakland.edu then:
 - Username: jwilson3
 - Password: whatever your Oakland University email password is

If you have any problems/issues with Moodle, you need to contact or fill out a help desk request form for e-Learning and Instructional Support.

To view course materials in MOODLE you will need the latest version of Adobe Reader that can be downloaded free of charge at www.adobe.com

REQUIRED TEXTBOOKS

Alexander, S., Frith, K. H. & Hoy, H. (2015). *Applied clinical informatics: For nurses*. Burlington, MA: Jones & Barlett Learning. ISBN- 13: 978-1-284-04996-1

American Psychological Association. (2009). *Publication manual of the American Psychological Association* (6th ed.). Washington, D.C.: Author.

GENERAL COURSE PROCEDURES

A. Technology for this course:

- This course will be taught online with the use of selected distance learning technology. You have assignments the first week that require you to access your internal email, access and contribute to forums, take on-line quizzes and upload documents. It is important that you are comfortable navigating around the Moodle page.
- Assignments with instructions and due dates can be viewed on **Moodle**. There are tutorials and helpful documents under the Help button at the top of the Moodle page
- Students should already be comfortable doing all of the following:
 - Using your chosen computer operating system and a web browser
 - Following online directions for using a new program
 - Typing at least 20 words per minute
 - Troubleshooting basic computer problems
 - Working through problems you cannot resolve on your own with remote support technicians

B. Required Technology: In order to fully participate in this course you will need

- An Internet connected computer with the most updated version of your favorite web browser installed. **Use of smartphones and tablets is NOT recommended**
- A “back up plan”: In the event your computer crashes or your internet connection goes down, it is essential to have a backup plan to be able to log in from another computer or another location as needed.

C. Technical Assistance

If you have general questions about the course (due dates, content etc) please contact me through Moodle Mail. For Moodle technical issues that you cannot resolve on your own, please contact the e-learning and Instructional Support office.

- Submit a Help ticket: <http://www2.oakland.edu/elis/help.cfm?lms=2> Note that there is a GET HELP tab at the top of the Moodle page.

D. Registrar’s Important Dates

- Please refer to the registrar’s webpage for important dates, such as last day to drop classes for full or partial tuition refund and last day for official withdrawal from the course.
- Grades of “incomplete” must be initiated by the student.
- If you are considering dropping or withdrawing from the course, please speak with me first in case your issues can be resolved.

E. School of Nursing Policies

- All policies and procedures found in the Oakland University catalog and School of Nursing handbook will apply for this course.

- Integrity is a core value of the professional nurse. If a student is suspected of Academic Dishonesty, the issue will be turned over the Office of Student Affairs for resolution.
- The School of Nursing Undergraduate Program Student Handbook is posted on the School of Nursing website at:
<http://www.oakland.edu/Assets/Oakland/nursing/files-and-documents/STUDENT-HANDBOOK/2015%20Student%20Handbook.pdf>

FACULTY – STUDENT COMMUNICATION

A. General:

- In an online course, it is especially important that we communicate frequently and well. There are a number of modalities that we can utilize to facilitate communication (listed below). Despite these electronic means, sometimes real-time and face-to-face communication is required. I follow the “rule of three”. If you write an email to me (#1), I respond (#2) and you write back for further clarification (#3) and the answer is still not resolved, I will ask you to meet with me by phone, by WebEx or in my office to enhance the communication. I only discuss grades in person or on the phone.
- Rules of netiquette – will be observed at all times. The course requires an open exchange of ideas. The expectation is that all feel free to express themselves and have their views respected. At no time will it be acceptable to use nonprofessional or inflammatory language on the course site. Any such entries will be deleted. Students will be marked down for unprofessional language in forum posts, and the amount of the deduction is at the faculty’s discretion. Remember email and discussion lack inflection and expression that real conversation communicates, so take care to prevent inadvertent misunderstandings. Many sources are available on the web under netiquette.

B. Communication Modalities: Look on the Moodle course page under the “communications” section for these communication tools.

- Moodle (Internal) email: I will check Moodle Internal email daily on weekdays but not always at the same time each day. Realize that if you send me a message right after I check my email, you may wait longer than 24 hours for a response. All communication should be sent through Moodle Internal email. The use of Moodle Internal email expedites my response to you since I will automatically know what course and CRN you are in. In the event you need to reach me in a *true* emergency, you may send the email to mirovsky@oakland.edu but you **must indicate your course number in the subject line** (ex, NRS 2021 Subject). With many students each semester, it is imperative that I know which course you are in. Overall, it is by far better to use Moodle Internal email.
- Course Q & A Forum: If you have a *question that is not private* and other students might benefit from the answer or may know the answer, submit it to the “Q & A Forum” on the Moodle page. Anyone can submit or answer a question there. I will check the forum daily.
- Announcement messages are *one-way* messages from the Faculty to Students and the message goes to your Oakland.edu email address. *Do not respond* to a

Announcement message in the forum. It is expected that students check their Oakland email daily.

COURSE REQUIREMENTS

Readings and Assignments:

Course Objectives:

- Please see Syllabus Part A for the Course Objectives and Learning Outcomes. These correlate with American Association of Colleges of Nursing *Essentials for Professional Nursing Practice*
- The class schedule on Moodle indicates reading, assignments, quizzes, and topics to be covered on particular dates.
- The instructor reserves the right to make minor adjustments to this schedule. These adjustments will be posted with notice by forum note.

Week	Topic	Required Readings	Assignments
1	Concepts and issues in Clinical Informatics	Alexander, Frith and Hoy Chp 1-3	IceBreaker Introductions Syllabus quiz Quiz #1, Ch 1-3
2	Use of Clinical Informatics in Care Support Roles: Human Factors in Computing;	Alexander, Frith and Hoy Ch 4-6	Plagiarism Tutorial Due Quiz #2, Ch 4-6 Form groups and choose leader for project: Begin research for project
3	Database Systems for Healthcare Applications; Adapting Business Intelligence for Healthcare; Workflow Support	Alexander, Frith, and Hoy Chp 7-9	Quiz #3, Ch 7-9 Continued work on projects
4	Patient Safety; The Electronic Health Record	Alexander, Frith and Hoy Chp 10-11	Quiz #4, Ch 10-12 Finalize, proofread projects
5	Clinical Decision-Support Systems; Telehealth	Alexander, Frith and Hoy Chp 12-13	Quiz #5, Ch 12-13 Group project due Upload quiz questions
6	Mobile Health Applications; Informatics and Public Health	Alexander, Frith and Hoy Chp 14-15	Quiz #6, Ch 14-15 Respond to others projects
7	Genetics/Genomics; Digital Patient Engagement and Empowerment	Alexander, Frith and Hoy Chp 16-17	Quiz #7 Ch 16-17 and quiz questions from projects (during finals week)

Weekly Assignments – *This is a fast moving course*, and it is important that students keep up with the pace. The course site should be checked daily for new information or communication from faculty or other students. Since computer access is available worldwide, it is expected that students will be frequently able to access the course site. If for some reason you must be unavailable for a period of time, let faculty know in advance.

Each student must complete all assignments according to the guidelines.. The faculty allocates all final points for assignments. Since computer access is available worldwide, it is expected that students will be frequently able to access the course site. If for some reason a student must be unavailable for a period of time you must let the faculty know in advance.

Module assignments with instructions can be viewed on Moodle. Look for feedback and grading on Moodle. To receive full credit for module assignments, students are expected to demonstrate synthesis and analysis of the concepts in their writing and provide rationale from readings and/or additional sources to support their statements. See Moodle for specific instructions and rubrics. The turn-around time for feedback and grades is approximately two weeks after the due date of all assignments for that module.

Quiz Policy – There will be on-line quizzes that will be open for a specific time frame. Although you are able to view assignments and PowerPoints on upcoming modules, the quizzes will not be opened early. Be sure to look at all dates and timeframes for quizzes. All quizzes will consist of multiple choice (best answer and “select all that apply”) and /or true-false questions. **You are expected to work alone. Do not copy, photograph, record or share in any way, any of the quiz questions. Any suspicion of academic dishonesty will be referred to the Dean of Students office. There are no make-up quizzes given.**

APA Writing Expectations – The American Psychological Association 6th edition (2009) format will be expected for all text and reference citations of sources. Other resources are Purdue Owl website and the Oakland University Writing Center located in Kresge Library. The Writing Center takes walk-ins, and is especially busy at mid-term and final exams, so it is recommended that you make an appointment well in advance.

On anything that requires you to write out answers to questions, your answers should be in complete sentences for full credit. Your written work should be free of all spelling, grammatical, and syntactical errors. **Be aware that ½ point will be deducted for each and every grammatical, spelling or APA error. This includes repeats of the same error.**

Late Submissions: Late assignments will not be accepted and the student will be assigned a zero. The due dates for all assignments are posted on Moodle. Every semester, there is at least one student who “misses” a quiz or assignment. Don’t let this be you.

Working as a Group:

1. There are various methods to accomplish group projects in the online setting.
2. Communication, personal respect, collegiality, and flexibility are keys to a successful and rewarding group project.
3. Once you have confirmed your group, you will need to decide on a method of communication that works best for the group (you may have to compromise)
4. Some examples of communication that can be used in online group projects are:
 - a. Online chat can be used for meetings. Establish a chat time that works for everyone and adhere to the date and time.
 - b. Discussion forums.
 - c. Email can be used to communicate changes that do not require a meeting.
 - d. Face-to-face meetings can be used if everyone can meet at the desired place, date, and time.
 - e. Shared documents such as wikis or Google documents can be used to collaboratively edit documents or presentations. I recommend Google Documents <http://documents.google.com/support/?ctx=ausers&hl=en>
 - f. Phone conferencing
5. After you have your group and decide on how your group will communicate, the first step is to define your goal or outcome.
6. Then you will need to define what your deliverables or end product will be.
7. Next define what tasks or steps need to be completed to accomplish your end product.
8. Then develop an accountability chart to assign the work to each group member (be sure that the work is evenly shared among each group member).
9. Develop intermediate deadlines and adhere to them.
10. Please be respectful and collegial. Everyone has different opinions, experiences, backgrounds, and perspectives. You may not agree all the time, but you can respect the person and listen to their ideas.

EVALUATION TECHNIQUES

Every student is expected to complete each and every assignment. Look in Moodle for specific instructions to complete and submit each assignment. It is suggested that students open each and every file on the Moodle page at the beginning of the semester to view all assignments, instructions, and resources.

This is a breakdown of the assignments and the points allocated. You may keep track of your progress below. The grades also appear in the Moodle grade book.

Notice that there are 7 quizzes. Instructions for the group project and other assignments are on Moodle.

Your Points	Assignment	Percentage of grade
	Icebreaker Post and Upload Photo on Moodle Forum	5
	Library Plagiarism Tutorial Certificate	P/F*
	Group Project	30
	Response to Other Groups' Projects	10
	8 Quizzes (7 quizzes + syllabus quiz)	55
	Total	100

*No final course grade will be assigned unless this is completed.
 For Oakland University School of Nursing Grade Conversion, refer to Syllabus Part A. The School of Nursing pass rate is 70% = 2.5

Oakland University School of Nursing GRADE CONVERSION

Note: 70% = 2.5

<u>PERCENTAGE</u>	<u>GPA</u>
<u>100.00</u>	<u>4.0</u>
<u>98.00 – 99.99</u>	<u>3.9</u>
<u>96.00 – 97.99</u>	<u>3.8</u>
<u>94.00 – 95.99</u>	<u>3.7</u>
<u>92.00 – 93.99</u>	<u>3.6</u>
<u>90.00 – 91.99</u>	<u>3.5</u>
<u>88.00 – 89.99</u>	<u>3.4</u>
<u>86.00 – 87.99</u>	<u>3.3</u>
<u>84.00 – 85.99</u>	<u>3.2</u>
<u>82.00 – 83.99</u>	<u>3.1</u>
<u>80.00 – 81.99</u>	<u>3.0</u>
<u>78.00 – 79.99</u>	<u>2.9</u>
<u>76.00 – 77.99</u>	<u>2.8</u>
<u>74.00 – 75.99</u>	<u>2.7</u>
<u>72.00 – 73.99</u>	<u>2.6</u>
<u>70.00 – 71.99</u>	<u>2.5</u>
<u>68.00 – 69.99</u>	<u>2.4</u>
<u>66.00 – 67.99</u>	<u>2.3</u>
<u>64.00 – 65.99</u>	<u>2.2</u>
<u>62.00 – 63.99</u>	<u>2.1</u>
<u>60.00 – 61.99</u>	<u>2.0</u>
<u>58.00 – 59.99</u>	<u>1.9</u>
<u>56.00 – 57.99</u>	<u>1.8</u>
<u>54.00 – 55.99</u>	<u>1.7</u>
<u>52.00 – 53.99</u>	<u>1.6</u>
<u>50.00 – 51.99</u>	<u>1.5</u>
<u>48.00 – 49.99</u>	<u>1.4</u>
<u>46.00 – 47.99</u>	<u>1.3</u>
<u>44.00 – 45.99</u>	<u>1.2</u>
<u>42.00 – 43.99</u>	<u>1.1</u>
<u>40.00 – 41.99</u>	<u>1.0</u>