

**Consumer Health Informatics - BMI 520/620**  
Distance Learning      Winter 2015      3 credit hours

**PREREQUISITES:** Graduate level standing

**COURSE DESCRIPTION:** Consumer Health Informatics focuses on the intersection between consumers, information technologies and health care. It explores the design, use and impact of technologies that aim to engage consumers to participate in their health and health care. Concepts included arise from various informatics disciplines such as health communication, behavioral science, quality improvement, psychology and public health. We will review opportunities and challenges in consumer health information technology, from perspectives of various stakeholders including patients, caregivers and health professionals. Topics include: trends; information quality; access and usage; barriers and opportunities for clinical integration; role of peers online and caregivers; tools for prevention and chronic illness care, and emerging health IT.

**FACULTY**

*Primary Instructor:*

**Susan Woods, MD, MPH**

Associate Professor, Medical Informatics & Clinical Epidemiology  
Veterans Health Administration (VA Maine Health System)

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[susan.woods@va.gov](mailto:susan.woods@va.gov) (preferred); or [woodssus@ohsu.edu](mailto:woodssus@ohsu.edu)

*Lecturers:*

**Danita Lee Ewing PhD, RN**

Assistant Professor, School of Nursing  
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**Steve Williamson**

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**COURSE FORMAT:** This is an online class. Weekly materials include lectures, readings, written exercises and Discussion Forums. Materials are posted on Tuesdays. **Students are expected to complete all assignments and participate in Forum discussions each week.** Submit written assignments using the course Submissions tool by Noon (Pacific Time) the next Wednesday. Contributions to discussion forums (on topics for that week) should be posted by Noon the following Wednesday. Students will work on an individual project relating to Consumer Health Informatics. Your project topic is due February 4, and project outline Feb 18 (Submissions tool). Projects, to be shared with the class, can be a presentation, **or** a research paper. A final exam will be given the following week.

**REQUIRED READINGS:** No up-to-date text on Consumer Health Informatics is currently available. Papers and other materials will be provided throughout the course website in Sakai.

**COURSE OBJECTIVES:**

1. Examine consumer health informatics from the perspective of multiple stakeholders, in particular, consumers and caregivers.
2. Describe consumer trends in health information seeking and use of technology.
3. Understand the drivers of consumer health informatics
4. Assess factors affecting consumer's ability to access, interpret, apply and evaluate digital health information and services.
5. Critically appraise political, societal, legal and ethical issues affecting consumer health information technology use and health information.
6. Identify patient tools such as personal health records and assess their utility and impact.
7. Develop professional communication strategies utilizing multiple formats including discussion forums, written work, and presentations.

**COURSE GRADING:**

You will receive a letter grade. Eight (8) exercises count 40% of the grade. **NOTE!** Over 40% of your grade is based on work at the end of the course – the project + final (130 points). Late assignments will be reduced 1 point for each day late (if permission from Instructor not received).

Assignments	Due	Points	Total (%)
Weekly Readings and Lectures	Readings before exercises	-	
Weekly Exercises (8)	Wednesdays, noon	15 each	120 (40%)
Weekly Participation (10)	Wednesdays, noon	5 each	50 (16.7%)
Project (paper or presentation)	Wednesday, June 4	60	60 (20%)
Final Exam	Finals Week	70	70 (23.3%)
<b>TOTAL</b>			<b>300</b>

Grades are assigned based on the following criteria:

- A 93-100
- A- 90-92.99
- B+ 87-89.99
- B 83-86.99
- B- 80-82.99
- C+ 77-79.99
- C 73-76.99
- C- 70-72.99
- D 60-69.99%
- F Below 60%

**Consumer Health Informatics BMI 520/620 Calendar - Winter 2015 (Distance)**

Sun	Mon	Tues	Wed*	Thu	Fri	Sat
Week 1 <b>January</b> 4	5	6	<b>UNIT One: Overview and Principles</b> Overview of Consumer Health Informatics; Empowered consumers and drivers 7	8	9	10
Week 2 11	12	13	Trends in consumer technology & health information search; Quality of Health Information 14 <b>Exercise 1 Due</b>	15	16	17
Week 3 18	19	20	<b>UNIT Two: Access and Barriers</b> Barriers to access from individual & population perspectives; eLiteracy and learning styles; Disability; Cultural and digital Divide 21 <b>Exercise 2 Due</b>	22	23	24
Week 4 25	26	27	Access from application perspective; User Design; Vocabulary; Pubic Reporting; Data visualization 28 <b>Exercise 3 Due</b>	29	30	31
Week 5 <b>February</b> 1	2	3	<b>Unit Three: Clinical Integration</b> Personal Health Information, Privacy, Information Exchange; Intro to Personal Health Records 4 <b>Exercise 4 Due + Project Topic Due</b>	5	6	7
Week 6 Feb. 8	9	10	Patient-Clinician Communication; OpenNotes; Personal Health Records and Patient Portals 11 <b>Exercise 5 Due</b>	12	13	14
Week 7 Feb. 15	16	17	Open Notes; Blue Button; Patient Generated Data: Peer Online Support 18 <b>Exercise 6 Due + Project Outline Due</b>	19	20	21
Week 8 Feb. 22	23	24	<b>Unit Four: CHI Impact and Reach</b> Research and systematic reviews; Health behavior change; Interactive HIT, Patient decision support 25 <b>Exercise 7 Due</b>	26	27	28
Week 9 <b>March</b> 1	2	3	Successful systems & challenges; Mitigating Divide; Professionalism; Consumer Meaningful Use; 4 <b>Exercise 8 Due</b>	5	6	7
Week 10 March 8	9	10	11 <b>Paper or Presentation Due</b>	12	13	14
<b>Finals</b> March 15	16	17	18 <b>Final Exam TBA</b>	19	20	Quarter Ends

\* Assignments & Discussion Forum postings are due Wednesdays at noon. All readings on Sakai

\* Last updated: November 12, 2014

Graduate Studies in the OHSU School of Medicine is committed to providing grades to students in a timely manner. Course instructors will provide students with information in writing at the beginning of each course that describes the grading policies and procedures including but not limited to evaluation criteria, expected time needed to grade individual student examinations and type of feedback they will provide.

Class grades are due to the Registrar by the Friday following the week of finals. However, on those occasions when a grade has not been submitted by the deadline, the following procedure shall be followed:

- 1) The Department<sup>1</sup> /Program Coordinator<sup>2</sup> will immediately contact the Instructor requesting the missing grade, with a copy to the Program Director and Registrar.
- 2) If the grade is still overdue by the end of next week, the Department<sup>1</sup> /Program Coordinator<sup>2</sup> will email the Department Chair directly, with a copy to the Instructor and Program Director requesting resolution of the missing grade.
- 3) If, after an additional week the grade is still outstanding, the student or Department<sup>1</sup> /Program Coordinator<sup>2</sup> may petition the Office of Graduate students for final resolution.

*1 For courses that are run by a specific department.*

*2 For the conjoined courses (course number is preceded by CON\_ that are run by Graduate Studies.*

### **COPYRIGHT INFORMATION:**

Every reasonable effort has been made to protect the copyright requirements of materials used in this course. Class participants are warned not to copy, audio, or videotape in violation of copyright laws. Journal articles will be kept on reserve at the library or online for student access. Copyright law does allow for making one personal copy of each article from the original article. This limit also applies to electronic sources.

To comply with the fair use doctrine of the US copyright law, Sakai course sites close three weeks after grades are posted with the Registrar. Please be sure to download all course material you wish to keep before this time as you will have no further access to your courses.

### **DMICE COMMUNICATION POLICY:**

1. If the syllabus directs the student to contact the TA before contacting the instructor, the student should do so. Otherwise, the student should contact the instructor and allow 2 business days (not including weekends) for a response.
2. If the student does not receive a response from the instructor within 2 business days, s/he should contact the TA (if there is one). When contacting the TA s/he should cc the instructor and Diane Doctor at [doctord@ohsu.edu](mailto:doctord@ohsu.edu).
3. If a student does not receive a response from the TA within 1 business day (not including weekends), s/he should contact Diane Doctor at [doctord@ohsu.edu](mailto:doctord@ohsu.edu) and cc Instructor and TA.
4. If Diane does not reply within 1 business day (not including weekends), the student should contact Andrea Ilg at [ilgan@ohsu.edu](mailto:ilgan@ohsu.edu).
5. Students having difficulties with Sakai should contact the Sakai Help Desk at [sakai@ohsu.edu](mailto:sakai@ohsu.edu) or at (877) 972-5249. Sakai help is available M-F from 8am to 10-pm and weekends from Noon to 5pm. Do not contact the instructor.

**STUDENT ACCESS:**

OHSU is committed to providing equal access to qualified students with disabilities. Student Access determines and facilitates reasonable accommodations, including academic adjustments and auxiliary aids, for students with documented disabilities. A qualified student with a disability is a person who meets the academic and technical standards requisite to admission or participation in a particular program of study. As defined by the Americans with Disability Act (ADA), a person with a disability has a physical or mental impairment that substantially limits one or more major life activities of the individual. This may include, but is not limited to, physical conditions, chronic health issues, sensory impairments, mental health conditions, learning disabilities and ADHD. Student Access works with students with disabilities from all of OHSU's educational programs and at each campus.

Each school has an assigned Program Accommodation Liaison (PAL), who acts as an "in-house" resource for students and faculty concerning access issues for students with disabilities. The PAL works in collaboration with Student Access to implement recommended accommodations for students with disabilities.

It is recommended that you contact Student Access to consult about possible accommodations if you a) received disability accommodations in the past, b) begin experiencing academic difficulties, and/or c) are given a new diagnosis from your healthcare provider.

Learn more about Student Access:

Phone: 503 494-0082

Email: [studentaccess@ohsu.edu](mailto:studentaccess@ohsu.edu)

Website: [www.ohsu.edu/student-access](http://www.ohsu.edu/student-access)

**ACADEMIC HONESTY:**

Course participants are expected to maintain academic honesty in their course work. Participants should refrain from seeking past published solutions to any assignments. Literature and resources (including Internet resources) employed in fulfilling assignments must be cited. See [http://www.ohsu.edu/xd/education/library/research-assistance/plagiarism.cfm?WT\\_rank=1#](http://www.ohsu.edu/xd/education/library/research-assistance/plagiarism.cfm?WT_rank=1#) for information on code of conduct for OHSU and <http://www.ohsu.edu/xd/education/teaching-and-learning-center/for-students/index.cfm> for more information on citing sources and recognizing plagiarism.

*In an effort to uphold the principles and practice of academic honesty, faculty members at OHSU may use originality checking systems such as Turnitin to compare a student's submitted work against multiple sources.*

*To protect student privacy in this process, it will be necessary to remove all personal information, i.e. student name, email address, student u-number, or any other personal information, from documents BEFORE submission.*

**USE OF SAKAI:**

This course has an online component, which can be accessed through Sakai, OHSU's online course management system. For any technical questions or if you need help logging in, please contact the Sakai Help Desk.

**Contact:** (Toll-free phone) 877-972-5249, or by  
(Web) <http://atech.ohsu.edu/help> or  
(Email) [sakai@ohsu.edu](mailto:sakai@ohsu.edu)

**Hours (Pacific):** Help Desk is available Mon – Fri, 8 am – 10 pm; weekends/holidays 12 pm – 5 pm