Health Informatics Seminar Series (INLS 770)
Fall 2019
University of North Carolina at Chapel Hill

Day/Time:
Wednesdays, 4:00-5:00 PM

Location:
227 Health Sciences Library

Faculty:
David D. Potenziani, PhD
Senior Informatics Advisor, IntraHealth International

6340 Quadrangle Drive, Suite 200 | Chapel Hill, NC 27517
t. +1 (919) 313-9132 | Skype. ddpotenziani_intrah | dpotenziani@intrahealth.org

Get Connected!
While the age of social media should give us pause when putting our information online, one platform that help with your career advancement is LinkedIn. I suggest that each student develop a professional profile on that platform since many organizations use it when recruiting. When you are actively looking for a new job, it can help by raising your professional visibility, especially if you post your own thoughts and professional experiences there. You can also put your final project slides up on your profile too.

Please feel free to connect to me: Dave on LinkedIn

Office Hours:
Generally available in 227 HSL at 3:00 pm on course seminar days or by appointment.

Course Website (on Sakai)

Target Audience:
Students in programs at the master's, doctoral, and post-baccalaureate certificate level interested in health informatics practice and research.

Prerequisites:
Admission to a post-baccalaureate certificate or graduate program in a health informatics-related field (e.g., Information and Library Science, Medicine, Nursing, Pharmacy, Public Health), or with instructor permission.

Course Description:
The course focuses on developing an understanding of current and future directions for the use of information technology to improve the health and health care of patients cared for in the U.S. health system. Students in this course participate in the Joint Health Informatics Seminar Presentation Series, which is sponsored by Duke Center for Health Informatics, the Carolina Health Informatics Program (CHIP), NCCU, UNC-Charlotte, ECU, and Wake Forest. This series explores key areas in Health Informatics and includes research results, overview of programs of research (both basic and applied), and evaluative projects. Speakers with extensive informatics experience and knowledge from both academia and industry present their work and engage in scholarly discussions during a question and answer period.

List of Informatics Seminar with abstracts and videos, 2009-Present
Current and past seminar talks: http://www.dukeinformatics.org/education/informatics-seminars/

Course Goals and Key Learning Objectives
The goal of this course is to introduce students to ongoing cutting-edge research, development, and innovations in health informatics as well as to add to their basic understanding of the area. At the completion of this course, students will be able to:

- Describe current research initiatives in health informatics.
- Understand the challenges involved in applying health information technology in health care settings.
- Discuss key aspects of successful health informatics implementations.

Course Requirements
Introductory Video: Students will create a video introducing themselves to the class, and to respond to other students' introductory posts. See "Introductions" link on the Assignments sidebar of the Sakai site for more information or go to https://flipgrid.com/inls770fall2019. *The password to log in is your UNC ID (onyen).*

Seminars: The course seminar sessions are available as a live-stream as well as attending in person. While I strongly encourage students to attend in-person for the 2 lectures scheduled at UNC, some will find that impossible. Nevertheless, all students are required to view ten live or recorded presentations.

After the seminar, students will prepare a 1-2 paragraph summary of the presentation which will include a question that arose from the talk. **Students are required to write up 10 (of 12) seminars during the semester.** *Students will submit the summaries via the course website by 4 pm the following Wednesday. Late assignments will have point(s) deducted.*

Informational Interview:[1] Students will have a one-hour informational interview with someone working in a field related to health informatics, preferably in an area closely linked to the student's future area of study. After the interview, students will compose a 2- to 3-page summary of the experience including background and lessons learned. These interviews will be shared on the course forum.

For more information regarding informational interviewing, see these links:

- https://careers.unc.edu/videos/informational-interviewing-0
- https://careers.unc.edu/students/exploring-majors-and-careers/informational-interviewing

Presentation: Students will select a health informatics topic that relates to their area(s) of interest and synthesize the knowledge gleaned from the seminars into a presentation which summarizes their key concepts and issues, as well as their personal reflections on the topic. Because this course is about your career and interests, you are highly encouraged to pick an area that will be relevant to you in your career.

Each student will present their slides to the class during a final in-class meeting of all enrolled students. Students will also prepare a list of at least 5 scholarly articles on the presentation topic and will submit the presentation slides and reference list via the course website.

The final presentation sessions will be on November 20 and December 4 beginning at 4:00 PM to accommodate all students. Based on class size, plan for each class session to last 2 hours. (No class on November 27 because of the Thanksgiving holiday.)

You can find examples of previous presentations here: http://chip.unc.edu/seminar-presentations/. Students will have their presentations shared on the CHIP site unless they request otherwise, and we strongly encourage you to post the Slideshare version of your presentation to your LinkedIn profile to showcase your work!

Recommended Readings and Related Websites

Students are encouraged to explore health informatics topics for the class presentation requirement and based on topics of interest that are presented in the seminar series. There are no required texts or readings, but good sources of health informatics literature are listed here.

Health Informatics Journals

- Journal of the American Medical Informatics Association
- AMIA Annual Symposium Proceedings
- Applied Clinical Informatics
- BMC Medical Informatics and Decision Making

[1] *Alternative assignment: if you have already taken this seminar before and would prefer to have an optional assignment to replace the informational interview, please speak with the instructor.*

- Journal of Biomedical Informatics
- Computers, Informatics, Nursing
- JMIR Medical Informatics

Evaluation of Student Performance and Grading Scale

Students will be evaluated for course grades as follows:

Item	Maximum Points (% Grade)	Description
Introductory Videos – Introduce yourself	2	Introductory video, and responses to other students' videos
Seminar write-ups	20	10 lecture write-ups (2 points each)
Informational Interview (or alternative, see above)	18	Interview someone working in the field, with 2- to 3-page summary.
Attendance at Final Presentation Sessions	10	Attending the two final presentation sections.
Final Presentation	50	In-class presentation, with slides and references
TOTAL	**100**	

Based on the current UNC grading scales, the following grades and corresponding numeric ranges are applicable.

Graduate Students

Grad Grade	Range
H	95-100
P	80-94
L	70-79
F	69 or below

The schedule for submission of assignments is as follows:

Assignment	**Due Date**
Introduction Videos • Introduce yourself – make a video introducing yourself • Response to introductions – respond to other student videos by using the response icons (heart, smiley, etc.) to give them positive feedback.	Introduce Yourself – Sep 4 Response to Introductions – Sep 6
Informatics Research Seminars (See schedule on last page of syllabus) • Attend Seminars there are 12 scheduled seminars. See list of all talks and their details below. • Summary 1-2 paragraph summary of seminar, including question that arises from presentation. Due no later than 4 pm one week after seminar presentation. 2 points each. Submit via Sakai Assignments tab.	Summary: due by 4 pm one week after each seminar (which is generally the time the next seminar begins)
Informational Interview • Reach out to someone working in a role related to course topics and hold a one-hour informational interview asking them about their work, important industry trends, and topics of interest to your future professional career. Write up 2- to 3-page summary of the experience including background and lessons learned.	Oct 21
Final Presentations for Health Informatics Seminar • Final presentation, PowerPoint slides • Reference list	*Student slides are due Nov 18 and presentations will be held on Nov 20 and Dec 4. Exact times to be determined, likely 4:00-6:00 pm.* *Sign up for presentation slot when announced to class.*

Grading Criteria for Final Presentation

Possible Points	Criteria
5	Clear topic description
10	Highlights key observations and content from one or more seminars from this semester's Health Informatics Research Seminar series.
15	Presentation demonstrates synthesis and evaluation of seminar presentation and scientific literature; creates new and innovative ways of approaching health informatics problems or issues.
10	Presentation well-organized, content on slides conveyed clearly and concisely with attention to correct spelling, acronyms spelled out, limited use of jargon
5	Presentation delivery is strong (poise, eye contact, articulation, pacing, volume, professionalism)
5	Submitted reference list with at least 5 relevant, evidence-based papers from the scientific literature on the topic
50	Total Possible

Health Informatics Seminar Series Schedule
http://www.dukeinformatics.org/education/informatics-seminars/

Fall 2019 Seminar Schedule
All seminars are held from 4:00-5:00 pm in HSL 227

Week	Date	Speaker	Seminar Location	Topic
1	28-Aug	Warren Kibbe, PhD	Duke	The Role of Data in Precision Oncology
2	4-Sept	Ayesha Aslam, MD	UNC-CH	Wearable Device Data Access: Attitudes, Barriers and Possible Solutions
3	11-Sept	Tracie Locklear, PhD	NCCU	Natural Products Drug Discovery
4	18-Sept	George Shaw, Jr., PhD	UNC-C	Characterizing Diet, Diabetes, Exercise, and Obesity Comments on Twitter Using Unsupervised Machine Learning
5	25-Sept	Ali Vahdati, PhD	ECU	Applications of Predictive Computer Modeling and Data Analytics in Precision Medicine
6	2-Oct	Saif Khairat, PhD, FAMIA	UNC-CH	From the Bedside to Home: Applying Informatics Methods to Improve Health Outcomes
7	9-Oct	TBD	WF	
8	16-Oct	Rajesh Dash, MD	Duke	A Model Information Management Plan for Molecular Pathology Sequence Data Using Standards
9	23-Oct	Franck Diaz, PhD	UNC-C	Clinical Data Quality for Secondary Use in the Learning Healthcare System
10	30-Oct	Mary Tucker-McLaughlin, PhD	ECU	Geofencing: A Potential Catalyst to Audience Engagement in Health Communication
11	6-Nov	John J. Sollers, PhD	NCCU	Advances in Sickle Cell Disease Research
12	13-Nov	Eric Eisenstein, DBA	Duke	TRANSFORM-HF Study
13	20-Nov	Final Presentations 1	UNC-CH	
14	4-Dec	Final Presentations 2	UNC-CH	