

**Health Informatics Seminar Series**  
**(INLS 770)**  
**Fall 2016**  
**University of North Carolina at Chapel Hill**

**Day/Time:**

Wednesdays, 4:00-5:00 PM

**Location:**

227 Health Sciences Library

**Faculty:**

Brian Moynihan MBA | MSIS | MA

Head of Health IT, [UNC Health Sciences Library](#)

Director, [Carolina Digital Health Research Initiative \(CaDHRI\)](#)

539 Health Sciences Library

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[Brian on LinkedIn](#)

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**Office Hours:**

By appointment

**Course Website (on Sakai):**

<https://sakai.unc.edu/portal/site/188d790c-e7b4-492e-b55e-c629774d3c82/>

**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 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, and EC. 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.

## 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 and 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

**Seminars:** Students are expected to **attend at least 6 of the scheduled presentations during the semester in-person, including the 2 lectures scheduled at UNC.** Attendance will be taken at UNC by the instructor.

After the seminar, students will prepare a 2-3 paragraph summary of the presentation which will include a question that arose from the talk. **Students are expected to write up 8 of the 10 seminars during the semester.** *Students will submit the summaries via the course website by 4pm the following Wednesday. Late assignments will have point(s) deducted.*

**Discussion Forum:** Students will complete two assignments on the course's discussion forum on Sakai, an introductory post, and responses to two other students' introductory posts.

**Informational Interview:** 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-page summary of the experience including background and lessons learned.

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 seminar presentations into a presentation which summarizes their key concepts and issues, as well as their personal reflections on the topic. Each student will present their slide presentation to the class during a final in-class meeting of all enrolled students. The final presentation date will be determined during the first two weeks of class. 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.

## 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.

List of Informatics Seminar with abstracts and videos, 2009-Present

Current and past presentations: <http://www.dukeinformatics.org/education/informatics-seminars/>

In the navigation menu, you can hover over Education > Informatics Research Seminars to see archives from previous years.

Health Informatics Journals

- Journal of the American Medical Informatics Association
- AMIA Annual Symposium Proceedings
- Applied Clinical Informatics
- BMC Medical Informatics and Decision Making
- Journal of Biomedical Informatics
- Computers, Informatics, Nursing
- JMIR Medical Informatics

Non-required Reference

Electronic Health Records: A Guide for Clinicians and Administrators (EHR-1). Jerome H. Carter (Ed.), American College of Physicians; 2nd edition, 2008.

**Evaluation of Student Performance and Grading Scale**

Students will be evaluated for course grades as follows:

Item	Maximum Points (%Grade)	Description
Forum Post – Introduce yourself	2	1 post on Sakai forum introducing yourself to the class
Forum Post – Response to introductions	2	At least 2 replies to other student introductions on Sakai forum
Attendance at seminars	12	6 lectures attended in person, including 2 UNC lectures (2 points each)
Seminar write-ups	24	8 lecture write-ups (3 points each)
Informational Interview	15	Interview someone working in the field, with 2 page summary
Final Presentation	45	In-class presentation, with slides and references
<b>TOTAL</b>	<b>100</b>	

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
<p><b>Forum Posts</b></p> <ul style="list-style-type: none"> <li>• <u>Introduce yourself</u> – write a post on the Sakai Discussion Forum</li> <li>• <u>Response to introductions</u> – write at least 2 replies to other student introductions on the Sakai Discussion Forum</li> </ul>	<p>Introduce Yourself – Sept 2</p> <p>Response to Introductions – Sept 9</p>
<p><b>Informatics Research Seminars</b> (See schedule on last page of syllabus)</p> <ul style="list-style-type: none"> <li>• <u>Attend Seminars</u>- at least 6 of the 10 scheduled seminars in person, including both of the talks taking place at UNC (Sept. 7 &amp; Sept. 28) See list of all talks and their details below.</li> <li>• <u>Summary</u>- 1-2 paragraph summary of seminar, including question that arises from presentation. Due no later than 4pm one week after seminar presentation. 2 points each. Submit via Sakai Assignments tab.</li> </ul>	<p><u>Summary</u>: due by 4pm one week after seminar</p>
<p><b>Informational Interview</b></p> <ul style="list-style-type: none"> <li>• 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 page summary of the experience including background and lessons learned.</li> </ul>	<p>Due by Nov. 16th</p>
<p><b>Final Presentations on Health Informatics – November 30</b></p> <ul style="list-style-type: none"> <li>• Final presentation, Powerpoint slides</li> <li>• Reference list</li> </ul>	<p><i>Sign up for presentation slot when announced to class.</i></p>

### Grading Criteria for Final Presentation

<b>Possible Points</b>	<b>Criteria</b>
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 <u>synthesis</u> and <u>evaluation</u> 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	Submitted reference list with at least 5 relevant, evidence-based papers from the scientific literature on the topic
<b>45</b>	<b>Total Possible</b>

## Health Informatics Seminar Series Schedule

<http://chip.unc.edu/duke-unc-health-informatics-seminar-series/>

### Fall 2016 Seminar Schedule

**All seminars are held from 4:00-5:00 pm in HSL 227**

Date	Speaker	Topic
Aug. 31	Ryan Shaw, PhD, RN	Mobile Health Technologies for Precision Medicine
Sept. 7	<b>Robert Furberg, PhD, MBA</b> <i>Speaking at UNC</i>	The Use of Sensor Based Data Collection for Personal, Clinical and Public Health Applications
Sept. 14	Dr. Young Joo Kim, PhD, OTR/L & Dr. Jennifer Radloff, OTD, OTR/L, CDRS	Tele-rehabilitation
Sept. 21	Chantel Nicolas	Computational Systems in Biomedical and Biotechnology Research
Sept. 28	<b>Jason Burke, MA</b> <i>Speaking at UNC</i>	Making Medicine Smarter through Analytics and Data Sciences
Oct. 5	James Tcheng, MD	Cardiology informatics
Oct. 12	No Meeting	No Meeting
Oct. 19	Akshat Kapoor, PhD	Exploring interactive survivorship plans: Patient perceived value, Acceptance, and Usability evaluation of an online breast cancer survivorship tool.
Oct. 26	Dr. Fusheng Wang	TBD
Nov. 2	ClarLynda Williams-DeVane	Data Integration Framework for the Identification of Complex Disease Subtypes
Nov. 9	Dr. William Saunders, PhD, PE	Development of an HIE for Transitional Housing Residents in Charlotte, NC
Nov. 16	No Meeting	No Meeting
Nov. 23	No Meeting	No Meeting
Nov. 30* (Expected Date)	Class Members	Final Presentations