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## Syllabus

### **Health Informatics Seminar Series (CHIP 770) Fall 2021 University of North Carolina at Chapel Hill**

#### **Day/Time:**

Wednesdays, 4:00-5:00 PM

#### **Location:**

Class sessions in Manning Hall 304

Seminars are online and recorded for later viewing

#### **Faculty:**

David D. Potenziani, PhD

Adjunct Instructor, SILS; Adjunct Assistant Professor, SPH

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#### **Teaching Assistant:**

Ashlyn Zebrowski

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#### **Get Connected!**

While the age of social media should give us pause when putting our information online, you may still want to use one platform to help with your career advancement: [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 as well.

Please feel free to connect with me: [Dave on LinkedIn](#)

**Office Hours:**

Generally available in person at 3:30 pm on course seminar days or online 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 in the U.S. health system and beyond. 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*

Current and past seminar talks: <https://dukeinformatics.org/> Select the menu option, "Informatics Research Seminars" and a dropdown will list the previous years' presentations.

**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. We will use the Forums function in Sakai to post and comment on video introductions. Half your credit for this assignment is to respond to the postings of at least 2 other students. Your responses may be written comments.

Seminars: Students are strongly encouraged to attend the live-stream seminar sessions because that is the only opportunity to pose questions to the presenters. Nevertheless, it is acceptable to view the recorded stream later. Because these are hosted by Duke University, they will be streamed via WebEx, so check your connections and configuration in advance.

Students will create a 300- to 700-word summary of the seminar, especially including question(s) that arise from the presentation. While the seminars will vary in their depth of research, students are expected to

- Summarize the domain of research and relevant points of discovery or exploration by the presenter
- Offer any information presented that puts the presentation in context
- Note any questions or discussion that are revealing of open questions or other research avenues
- Submit summaries that are *carefully proofread, spell-checked, and well-written*

Students are required to write 10 seminar summaries during the semester. While there are 12 seminars, *only 10 summaries are required*. Submit your summary on the assignment page in Sakai using the built-in editor. Each assignment page will become open immediately after the live presentation. Consult the schedule below to see when the assignments are due. *Late assignments will have points deducted*.

Informational Interview or Professional Summary Statement: Students will have two options for this assignment:

1. Conduct a one-hour informational interview with someone working in a field related to health informatics, preferably in an area closely linked to your area

of study. After the interview, students will compose a 2- to 3-page (600 to 1000 word) summary of the experience including background and lessons learned.

2. Develop a 2- to 3-page (600 to 1000 word) essay on a topic related to the course *in consultation with the professor*.

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, if possible, using topics and points made in one or more of the seminars as a jumping-off place. The deliverable is a presentation summarizing 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 and your career.

Each student will present their slides to the class during two final in-class meeting(s) of all enrolled students. Students will also include 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 the last two weeks of classes (depending on class size) beginning at 4:00 pm ET to accommodate all students. Based on class size, plan for each class session to last up to 2 hours.

## **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
- 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:

| <b>Item</b>                                     | <b>Points /<br/>Weighting<br/>(% Grade)</b> | <b>Description</b>   |
|---|---|--|
| Introductory Videos – Introduce yourself        | 100 /<br>10% of<br>grade                    | Introductory video and responses to other students' videos (100 points contributing 10% to the final grade from this category) |
| Seminar write-ups                               | 100 /<br>30% of<br>grade                    | 10 lecture write-ups (100 points with each contributing 3% to the final grade from this category, 30% in total)                |
| Informational Interview or Special Topics Essay | 100 /<br>20% of<br>grade                    | 2- to 3-page summary (100 points contributing 20% to the final grade from this category)                                       |
| Final Presentation                              | 100 /<br>40% of<br>grade                    | In-class presentation, with slides and references (100 points contributing 40% to the final grade from this category)          |
| <b>TOTAL</b>                                    | <b>100%</b>                                 |  |

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

### *Grading Scales*

#### Graduate Grading Scale

|               |   |
|---------------|---|
| <b>95-100</b> | H |
| <b>80-94</b>  | P |
| <b>70-79</b>  | L |
| <b>&lt;69</b> | F |

| <b>Undergraduate Grading Scale</b> |   |
|------------------------------------|---|
| <b>90-100</b>                      | A |
| <b>80-89</b>                       | B |
| <b>70-79</b>                       | C |
| <b>60-69</b>                       | D |
| <b>&lt;60</b>                      | F |

The schedule for submission of activities and assignments is as follows:

| <b>Date</b> | <b>Activity</b>                   |
|-------------|-----------------------------------|
| August 18   | Course Orientation                |
| August 20   | Video Introductions on the Forum  |
| August 24   | Comments on Two Introductions Due |
| August 25   | Seminar from Duke                 |
| August 30   | Summary Due                       |
| September 1 | Seminar from UNC-CH               |
| September 6 | Labor Day                         |
| September 7 | Summary Due                       |
|             |                                   |

|                |                       |
|----------------|-----------------------|
| September 8    | Seminar from NCCU     |
| September 13   | Summary Due           |
| September 15   | Seminar from UNC-C    |
| September 20   | Summary Due           |
| September 22   | Seminar from ECU      |
| September 27   | Summary Due           |
| September 29   | Seminar from WF       |
| October 4      | Summary Due           |
| October 6      | Seminar from Duke     |
| October 8      | Interview / Essay Due |
| October 11     | Summary Due           |
| October 13     | Seminar from UNC-CH   |
| October 18     | Summary Due           |
| October 20     | Seminar from NCCU     |
| October 25     | Summary Due           |
| October 27     | Seminar from UNC-C    |
| November 1     | Summary Due           |
| November 3     | Seminar from ECU      |
| November 8     | Summary Due           |
| November 12    | Student Slides Due    |
| November 10    | Seminar from Duke     |
| November 15    | Summary Due           |
| November 17    | Student Presentations |
| November 24–26 | Thanksgiving Recess   |
| December 1     | Student Presentations |

### Criteria for Effective Final Presentations

- Clear topic description
- Highlights key observations and content from one or more seminars from this semester's Health Informatics Research Seminar series.
- Presentation demonstrates synthesis and evaluation of seminar presentation and scientific literature; creates new and innovative ways of approaching health informatics problems or issues.

- Presentation well-organized, content on slides conveyed clearly and concisely with attention to correct spelling, acronyms spelled out, limited use of jargon
- Presentation delivery is strong (poise, eye contact, articulation, pacing, volume, professionalism)
- Submitted reference list with at least 5 relevant, evidence-based papers from the scientific literature on the topic