COMP 915 Syllabus for Spring 2024

Technical Communication in Computer Science: Teaching, Speaking, Writing

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Goals

- 1. To give Ph.D. students an admittedly modest exposure to the literature on teaching techniques and on life as an academic.
- 2. To lead students in thinking about teaching as a *design* challenge, not a challenge of presentation of material: *The job of the teacher is to design learning experiences*.
- 3. To have students practice techniques of planning, preparation, assignment design, and presentation.

Upon completing the course, the student will be able to:

- 1. Find help for common teaching problems in familiar literature.
- 2. Design a course syllabus and schedule.
- 3. Select a textbook.
- 4. Design lessons for varied learning styles.
- 5. Design exercises and quizzes.
- 6. Prepare and deliver classes using a variety of different teaching methods.
- 7. Assign grades fairly.

Policies, logistics, etc.

- An anticipated schedule is given on the next page. This schedule should be taken as a working document. It may change, e.g., due to snow days, people dropping or adding the class, unanticipated travel by the instructors, etc. We will keep an up-to-date version on the class webpage.
- Each student will design and lead a 20-minute lesson on a topic of their choice. The 20 minutes is for your lesson as prepared. Questions and discussion are not counted against your time. Lessons often are, but don't have to be, computer science topics. For example, in the past, we've had lessons on ballroom dancing, juggling, frisbee throwing, etc.
- Each student will help and critique a partner in their lesson preparation and rehearsal.
- Most assignments will consist of a reading and a two-page essay. Last paper will be the exam.
- Name, date, and honor code pledge on everything you give us.
- **Note:** Much of the material you will receive has been taken verbatim from material prepared previously by Dr. Fred Brooks (with his permission).

This class has a closed-laptop, iPad, etc. policy.

Grading: Based on class teaching, assignments, and **participation**. Broad curve. Two free late assignments if turned in next class; other late assignments are half-credit. Final grade: 40% lesson, 40% assignments, 20% class participation. Since a key purpose of the writing assignments is to improve your writing skills, **usage of ChatGPT or similar Al tools is not allowed**.

Time and Place: Fridays, 10:30am-Noon, FB 007.

Web: https://cs.unc.edu/~anderson/teach/comp915/

Text: Svinicki & McKeachie, *McKeachie's Teaching Tips*, 14th Edition, 2011, Wadsworth. We have five copies you can share. You can also find pretty cheap eversions online

COMP 915 Syllabus for Spring 2024 Anticipated Schedule

Jan 12	1.	Intro to the Course (Objectives, How it will Work) A Brief History of Teaching Determine Student Presentation Order, Discuss Role of Coaches	Jim Jim Jim
lan 10	2	Elementary Public Speaking	Jim
Jan 19	۷.	Course Planning: Objectives, Learning Styles, Bloom's Taxonomy	Don
lan 26	3	Finishing up "Course Planning: Objectives,"	Don
J an 20	Ο.	Why Should You get a Ph.D.?	Jim
Feb 2	4.	Course Planning: Syllabus, Topological Sort, Schedule, Textbook Selection Student Lesson: Archiki Prasad	Don
Feb 9	5.	Active Learning Student Lesson: Prateek Yadav	Jim
Feb 16	6.	Course Planning: Large Classes (Attend a Large Class Before this Class)	Kris Jordar
		How to do Reviews	Don
		Student Lesson: Christine Mendoza	
Feb 23	7.	How to do Reviews (Continued)	Don
		Writing Student Lesson: Sizhe Liu	Jim
Mar 1	8.	Writing (Continued) Student Lesson: Cheng Tsai	Jim
Mar 8	9.	How to Teach Research; Finding Thesis Topics (Attend Two Defenses Before the End of the Semester)	Jim
		Dealing with Students Who Cause Problems or are Having Problems, When and Where to Get Help, FERPA Student Lesson: Matthew Gregoire	Jim
Mar 15		Spring Break	
Mar 22	10.	Course Planning: Project Courses Student Lesson: Mason Laney	Don
March 2	9	Good Friday	
April 5	11.	Teaching Controversial Issues Student Lesson: Rohan Wagle	Jim
Apr 12	12.	Motivating Students, Providing Students Useful Feedback, Grading Student Lesson: Jesse Wei	Don
Apr 19	13.	Quizzes and Examinations; How to Prepare for Oral Exams Student Lesson: Juan Garcia	Don
Apr 26	14.	Teacher as a Professional: Economics, Compensation, the Academic Marketplace, Talks, Publish or Perish, Time Budgeting, Professional Ethics	Job Jim

The teacher's job is to design learning experiences, not to dispense information.

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University Resources:

Accessibility Resources: The University of North Carolina at Chapel Hill facilitates the implementation of reasonable accommodations, including resources and services, for students with disabilities, chronic medical conditions, a temporary disability or pregnancy complications resulting in barriers to fully accessing University courses, programs and activities. Accommodations are determined through the Office of Accessibility Resources and Service (ARS) for individuals with documented qualifying disabilities in accordance with applicable state and federal laws. See the ARS Website for contact information: https://ars.unc.edu or email ars@unc.edu.

Counseling and Psychological Services (CAPS): CAPS is strongly committed to addressing the mental health needs of a diverse student body through timely access to consultation and connection to clinically appropriate services, whether for short or long-term needs. Go to their website: https://caps.unc.edu/ or visit their facilities on the third floor of the Campus Health Services building for a walk-in evaluation to learn more.

Title IX Resources: Any student who is impacted by discrimination, harassment, interpersonal (relationship) violence, sexual violence, sexual exploitation, or stalking is encouraged to seek resources on campus or in the community. Please contact the Director of Title IX Compliance (Adrienne Allison Adrienne.allison@unc.edu), Report and Response Coordinators in the Equal Opportunity and Compliance Office (reportandresponse@unc.edu), Counseling and Psychological Services (confidential), or the Gender Violence Services Coordinators (gvsc@unc.edu; confidential) to discuss your specific needs. Additional resources are available at safe.unc.edu.