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INLS 690.163: BIG DATA AND NOSQL FOR DATA SCIENCE

COURSE OBJECTIVES

- Study the requirements of non-traditional large-scale data applications
- Compare the properties of social networking sites against ACID properties of traditional databases
- Explore the fundamentals of NoSQL systems and big data analytics
- Examine application of very large clusters of COTS computing systems for solving large data problems
- Gain experience with NoSQL systems and Hadoop.

PREREQUISITES

INLS 523 or permission of instructor

TEXTBOOK

None. The course will use papers published in the literature. The course will be somewhat reading intensive as new ideas are explored in each of these topics.

HARDWARE AND SOFTWARE REQUIREMENTS

We will be using open source software which will require installation and administration on your laptop.

GRADING

GRADED WORK

Your grade will be based on class and forum participation, home work assignments and a final exam, weighted as shown under “Grade Weighting” on the first page.

GRADING SCHEME

Assignment	Percentage of Grade
Discussion Posts	20%
Homework	40%
Exam	40%

DISCUSSION FORUM

I require all students to participate actively in the discussion forum throughout the semester. I expect the forum to be the electronic meeting place for students to get to know each other better on the web. I expect every student to read and discuss the classwork and readings that are given for the week in their discussion posts and comment on other students’ posts. Sometimes I may start a conversation thread, but more often, I expect students to take the initiative in starting new discussion threads.

HOMEWORK

This course requires you to complete two homework assignments exploring the course content in more detail. The first homework assignment (Lesson 6) is due by the Friday of the Lesson 9. The second homework assignment (Lesson 9) is due by the Friday of Lesson 13. Be sure to complete each assignment by the due date listed.

EXAM

The course is divided into 15 lessons, the last one being a recap of the course. We will have one final exam to accompany your other graded work. The final exam will be taken on the web using Sakai. There will be a twenty-four hour window for taking this exam. The final exam will be cumulative, covering all content in the course.

GRADING POLICIES

The following grade scale will be used AS A GUIDELINE (subject to any curve):

Graduate Percentage	Undergraduate Percentage
H: 95–100%	A: 90–100%

P+: 90–94%	B: 80–89%
P: 85–89%	C: 70–79%
P+: 80–84%	D: 60–69%
L: 70–79%	F: Below 60%
F: Below 70%	

This scale will be used as a GUIDELINE ONLY. The final grade scale may differ.

COURSE POLICIES

DUE DATES AND LATE WORK

Homework assignments will have a due date and time. Late submissions will be given a late penalty. Typically, a late penalty of 10 percent per day will be applied unless prior arrangements have been made with the instructor.

REQUESTS FOR EXTENSIONS AND ABSENCES

Any request for an extension must be made, preferably by email, at least twenty-four hours prior to the due date. Written documentation is required for illness. If a serious illness prevents you from taking part, send your instructor an e-mail message, or a friend with a note, describing your condition before schedule. Also, to establish a valid excuse for an illness, you must get a note from a physician or the University infirmary.

STATUTE OF LIMITATIONS

Any questions or complaints regarding the grading of an assignment or test must be raised within one week after the score or graded assignment is made available (not when you pick it up).

COURSE COMMUNICATION (SAKAI)

A Sakai-based course website has been set up and it is the responsibility of every student to **check the Sakai website regularly** for announcements and materials. The Announcements section of the website will be the source for all **official announcements** related to the class. Your instructor may announce tests, assignments, or changes to assignments in class, but there is no guarantee or promise that such announcements will be made in class. The Announcements section of the website is the **only** official, reliable source for announcements, changes, etc. from the instructor. If something the instructor says in class conflicts with information posted by the instructor on the website, then the information posted by the instructor **on the Sakai website takes precedence**. Verbal instructions are easily misinterpreted, and they do not leave a documentation trail. All students should be able to access the system.

HONOR CODE

HONOR CODE

The UNC Honor Code is in effect for all work in this course. When work or ideas are not your own, you must attribute them. Unless otherwise stated, all assignments in this class are individual assignments, meaning that the substance of the work you turn in must be your own. If you have any doubts or questions about a course of action or a specific situation, please ask for clarification. Students should NOT receive (or give) major creative assistance or ongoing minor support on individual assignments. If you have any questions about this, please ask me.

SPECIAL ACCOMMODATIONS

If any student needs special accommodations, please contact the instructor during the first week of class.

