CSE 4701 Spring 2020 Syllabus

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Instructor:   Dong-Guk Shin
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Teaching Assistant:   Pujan Joshi,
                      ITEB Room 211
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Office Hours: Tu 11:00 am - 12:30 pm (TA)
              Wed 11:00 am - 12:30 pm (Instructor)
              or by appointment
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Topics		6th Ed.	
1. Introduction to Database Systems	CH	1&2	(.5 wk)
2. Relational Model	CH	3	(1 wk)
3. Relational Algebra	CH	6	(1 wk)
4. ER and EER Data Modeling	CH	7&8	(1 wk)
5. SQL	CH	4&5	(1 wk)
6. Access Method Design	CH	17&18	(1.5 wk)
7. Functional Dependencies	CH	15&16	(1 wk)
8. Query Optimization	CH	19	(1 wk)
9. Transaction Processing	CH	21	(1 wk)
10. Concurrency Control	CH	22	(1 wk)
11. Recovery Techniques	CH	23	(1.5 wk)
12. Data mining in scientific databases	CH	28	(1.5 wk)

Note: The ordering and the list of topics are subject to change.

Textbook: Elmasri and Navathe, "Fundamentals of Database Systems,"
           6th/7th edition, Addison-Wesley, 2011/2016

Reference: C.J. Date, "An Introduction to Database Systems," Volume I,
            Addison-Wesley
           Korth and Silberschatz, "Database System Concepts," McGraw-Hill

Grading (Estimate):

Participation	5%	
Assignments (4-5)	10%	
Projects	25%	
Midterm	25%	Mid March
Final	35%	Cumulative

Note: The weights are subject to change.

HWs and Projects: 5% penalty for one day late submission.

Classroom NOs: cell phone usage, gossiping, food (drinks OK)

Academic Misconduct: Refer to <u>Responsibilities of Community Life: The Student Code</u>