

CSI 360 - Database Systems – Spring 2019

Professor: Shaun D. Ramsey, Ph.D. (Dr. Ramsey with he/him/his pronouns)

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Office: DUNN N106a

Office Hours: MW 12:30 - 1:30pm, Tu 12:00pm - 1:00pm

(or by drop-in and appointment)

Tentative QSC Drop-In Hours: M 6-7pm, Th 4-6pm in DUNN N103

Class meetings: 360-10 TR 1:00-2:15 DUNN N103

Text: Database Systems by Nenad Jukic, Susan Vrbsky and Svetlozar Nestorov

Web: <http://shaunramsey.com/class/19SPRING/360.html>

Overview and Advising: Database systems concerns itself with the organization and retrieval of data. Database systems are critical for most modern enterprises in computer science and, in some form or another, our programs must handle (sometimes quite large volumes of) data. For example, one self-driving car, by itself, produces 4 TB of data each day. 5 billion videos are watched on youtube per day. 300 hours are uploaded every minute. But even a small enterprise like Washington College has a complicated course and payroll structure. Databases are the answers to these problems. We will work to understand the underlying issues that is involved in creating a DBMS. We will design several databases in several different DBMS in this course.

Suggestions: Complete the homework with enough time to allow the information to settle and to give it a second look. Don't be afraid to discuss ideas in groups, but the work should be your own.

Grade Breakdown:

Exam:	20%
Presentations:	20%
Homework:	15%
Final Project:	40%
Participation, Classwork and Citizenship:	5%

Attendance: Attendance is mandatory in this course. On your sixth absence in a MWF course or your fourth absence in a TTh course, you automatically fail the course. As a matter of courtesy, you are expected to notify Dr. Ramsey before class describing the reason of your absence. You must be present on the day of an exam or you will receive a 0. There is no distinction between excused and unexcused absences. It is quite likely that I will email you to discuss the reasons you have missed the class, but it is ultimately your duty to keep track of your absences and to contact me. Missing a class may result in missed classwork and/or quizzes. There are no make-up quizzes or classwork. It is your responsibility to obtain assigned homework, announcements and class notes from a classmate. Coming late (or leaving early) to class will also count against you. In this case, every two late arrivals (lates) count as an absence. Missing more than 15 minutes of a class counts as a full absence. Thus, for MWF, you fail the course with 12 lates or 6 absences or any mix of the two that add up to 6. Examples are: 2 lates and 5 absences, 4 lates and 4 absences, 6 lates and 3 absences, and so on.

Lateness: As a general rule, late assignments receive a grade of 0. However, if you hand in a late assignment, I will consider it for partial credit as long as you contact me vial e-mail, describe the reason it was late and notify me that it has been turned in. I encourage you to do the assignments! We learn this material by doing it!

Accommodations: If you have an accommodation that has been reported to the college, please let me know as soon as possible so I can work to meet your accommodation. Please notify me of any necessary accommodation at least two weeks prior to the requirement so we can make it happen. If you suspect you might need an accommodation, I recommend that you speak with OAS as soon as possible.

Academic Honesty: You are always subject to the Honor Code of Washington College. Always sign the honor code on materials that you hand in (including homework and exams). All work must be your own. When handing in any assignment, including a program, you are required to cite every reference, including web pages. Failure to do so will be considered plagiarism. For exams in this course, you will be expected to sign the honor code and you may be audio, image, or video recorded.

Career Center: It is important to utilize all the resources available to you. The Career Center is a wonderful center dedicated to helping you. You can receive mock interviews there, attend a career fair, and even attend a workshop on graduate school admissions. For more information on these programs and other ways to connect with the Center for Career Development, please contact Nanette Cooley at ncooley2@washcoll.edu.

Quantitative Skills Center: The Quantitative Skills Center (QSC) is a free tutoring service provided to the students of Washington College. The QSC is located on the main floor of the Miller Library. The QSC has drop in hours and appointment hours available to fit all schedules. The appointment sessions are one-on-one with a student tutor. Drop in hours will usually be small group and you can feel free to come and go as you please during the available times. See the top of this syllabus for the CS times! Please go to the Quantitative

Skills Center website, washcoll.edu/offices/quantitative-skills-center, for more information or contact the Director, Kerrin Ehrensbeck by email at kehrensbeck2@washcoll.edu.

Counseling Center: We all experience stressful and difficult events as a normal part of life. As your instructor, I am not qualified to serve as a counselor, but please feel welcome to open a discourse with me. If you do need an actual counselor, Washington College offers counseling services on-campus that are available to you at no cost. All counseling services provided are completely confidential and in no way connected to your academic record. I strongly encourage you to take advantage of this valuable resource. Please contact The Office of Counseling Services at 410-778-7261, or email: vanderson2@washcoll.edu to schedule an appointment.

General Tentative Schedule:

Week 1	Databases, ERs
Week 2	ERs to Access
Week 3	FDs, Anomalies and Normal Forms
Week 4	Transactions and ACID
Week 5	Transactions
Week 6	Review and Exam
Week 7	SQL, mysql - DBMS
Week 8	Queries and Practice
Week 9	php and Security
Week 10	Properties, r and r.e.
Week 11	Proposal Presentations
Week 12	More php and Optimization
Week 13	Catch-up and Project Time
Week 14	Final Project Presentations

Note: This document and a tentative week by week schedule are available from the website listed above.