

Course Syllabus Part II CSD 310 Database Development and Use 9-Week

Course Resources

Course Text:

NoSQL Distilled: A Brief Guide to the Emerging World of Polyglot Persistence; Pramod J. Sadalage and Martin Fowler; Addison-Wesley; 2013

Sams Teach Yourself SQL in 10 Minutes (5th edition); Ben Forta; Sams Publishing; 2020

Required Resources:

Computer with internet access and file storage. Links to supplemental materials provided within weekly course descriptions.

Prerequisite:

CSD 205 Introduction to Programming with Python

Course Schedule

Week	Module	Topics Covered	Readings	Assignments
1	1	Relational vs. Non- Relational Databases	Chapters 1-3 (NoSQL Distilled); Web articles	Discussion 1.1Assignment 1.2Assignment 1.3Assignment 1.4
2	2	Consistence and Version Stamps	Chapters 4-7 (NoSQL Distilled); Web articles	Discussion 2.1 Assignment 2.2
3	3	Document Databases and Column-Family Stores	Chapters 9, 10, and 14 (NoSQL Distilled); Web articles	Discussion 3.1Assignment 3.2
	4	Introduction to MongoDB	Web articles	Discussion 4.1Assignment 4.2
4	5	NoSQL, Part 1	Web articles	Discussion 5.1Assignment 5.2Assignment 5.3
5	6	NoSQL, Part 2	Web articles	Discussion 6.1Assignment 6.2Assignment 6.3
6	7	Introduction to MySQL	Chapters 1, 2, and 17 (Sams); Web articles	Discussion 7.1Assignment 7.2Assignment 7.3
6	8	SQL, Part 1	Chapters 3, 4, 5, 6, and 15 (Sams); Appendix C	Discussion 8.1



			and D (Sams); Web articles	Assignment 8.2Assignment 8.3
	9	SQL, Part 2	Chapters 10, 11, 12, and 13 (Sams)	Discussion 9.1Assignment 9.2Assignment 9.3
7	10	Case Study Milestone #1: ORD Milestone #2: Development	Chapters 16, 17, 18, and 19 (Sams); Web articles	Discussion 10.1Assignment 10.2Assignment 10.3
8	11	Case Study Milestone #3:Reports Milestone #4:Peer Review	Chapter 22 (Sams)	Assignment 11.1Assignment 11.2
9	12	Case Study Milestone #5:Revisions	N/A	Discussion 12.1Assignment 12.2Assignment 12.3

Course Activities [Optional]

N/A

Grade Breakdown/Criteria

Grade component
10 Discussion Posts
22 Assignments

Available points
50 pts. each, total of 500 pts.
50 pts. each, total of 1,100 pts.

Total points possible 1,600 pts.

Late Work

Late work is not accepted unless arrangements are made with the instructor for special circumstances.

Participation

Students are expected to login often and contribute to the class on a regular basis, including posting to the discussion board, submitting assignments, and participating in group activities as required. If you have specific participation requirements related to your educational funding or student status, you are expected to monitor your own participation to ensure you are in compliance with those requirements.

Expectations for Students

• Students should expect to spend approximately 15 hours per week to complete the activities and assignments in this course.



- Students will log in as often as needed to complete their assignments and progress through the course.
- Students will treat their classmates and the instructor with respect and courtesy.
- Students are responsible for keeping current with the reading assignments and coming to class prepared to discuss the work assigned.
- Students are responsible for knowing what assignments are due and when.
- Students will submit only their own work and will not commit plagiarism or other acts of academic dishonesty.
- Students will contact the instructor as soon as personal problems arise that may affect the student's ability to complete assignments on time.

Expectations for Faculty

- The instructor will treat all students with respect and courtesy.
- The instructor will make grading criteria clear and follow the criteria scrupulously in evaluating student work.
- The instructor will provide feedback about student work within 6 days of due dates (or 24 hours prior to the next due date)—feedback that helps the student learn and improve.
- The instructor will respond to all student phone and email messages within 48 hours.