HTTP Critical Path

HTTP 5126 - Database Design & Development Winter 2025

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The Critical Path is the course schedule. It is an important document that lays out weekly **and/or** module objectives that you are responsible for to ensure academic success. Download and/or print out a copy of the Critical Path and refer to it regularly.

Unless discussed and specifically approved in advance by your instructor, the use of generative artificial intelligence (also known as "GAI" or "AI", for example, ChatGPT) **is not permitted** for this course and its use will be considered academic misconduct.

Module Breakdown

Week	Topics and Activities	Due Dates	Weight
1	Module 1: Introduction to Data Design Topics: • Introduction to the course • Introduction to data and database core concepts Activities: • Lab 1 (5%)	Jan. 9	5%
2	Module 2: Accessing Data Part 1 Topics: Retrieving data from a database table with SQL queries Limiting columns Limiting rows with the WHERE clause and comparison operators Creating Aliases for columns Activities: Lab 2 (5%)	Jan. 16	5%
3	Module 3: Accessing Data Part 2 Topics: Removing duplicate rows with DISTINCT Refining results with logical operators Refining results with LIKE, BETWEEN, IN and IS NULL	Jan. 23	5%

Week	Topics and Activities	Due Dates	Weight
	 Sorting the result set with ORDER BY Activities: Lab 3 (5%) 		
4	Module 4: Using Built-in Functions Topics: • Aggregate functions MAX, MIN, COUNT, AVG, SUM, GROUP BY, HAVING Activities: • Quiz 1 (3%) • Lab 4 (6%)	Jan. 30 Jan. 30	3% 6%
5	Module 5: Join Operations to Combine Tables Topics: • Retrieving data from multiple tables Activities: • Lab 5 (8%)	Feb. 6	8%
6	Module 6: Database Design Part 1 Topics:	Feb. 13	6%
7	Module 7: Database Design Part 2 Topics:	Feb. 20	6%

Week	Topics and Activities	Due Dates	Weight
	READING WEEK		
8	Module 8: Database Design Part 3 Topics:	Mar. 6 Mar. 6	3% 8%
9	Module 9: Views & Triggers Topics: • Views • Triggers Activities: • Lab 9 (8%)	Mar. 13	8%
10	Module 10: Custom Functions Topics:	Mar. 20	3%
11	Module 11: Stored Procedures Topics:	Mar. 27	4%
12	Module 12: User Management Topics: Providing access to your data Passwords in MySQL Permissions & privileges	Apr. 3	6%

Week	Topics and Activities	Due Dates	Weight
	Activities: • Project Proposal (6%)		
13	Module 13: Data Management with NoSQL Topics: • Introduction to NoSQL options • Setup and installation • Basic CRUD functionality Activities: • Lab 10 (4%)	Apr. 10	4%
14	Final Project Presentations Activities: Database Project Presentation (5%) Database Project (15%)	Apr. 17 Apr. 19	5% 15%

Summary of Graded Course Components

Summary	
Total for all Quizzes (x 4)	13%
Total for all Lab Exercises (x 10)	61%
Final Database Project Proposal Document	6%
Final Database Project	15%
Final Project Presentation	5%
Total	100%