

COSC 304
Introduction to Database Systems
Course Summary and COSC 404

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Course Summary

The COSC 304 course goal was to:

Become an expert database user with the ability to query existing databases using SQL, design new databases using UML, and write programs that use databases.

High-demand skills acquired:

- ◆ Querying: SQL, relational algebra
- ◆ Database design: ER, UML
- ◆ Programming: Java, JDBC, PHP, HTML, JSON, XML, XPath
- ◆ Database skills make you more marketable and allow you to construct more sophisticated systems.
- ◆ All these skills practiced during the labs and project.

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Survey Question: Lecture Value

Question: On a scale of 1 to 5 with 5 being the highest, how valuable/useful was the lecture time?

- A) 1
- B) 2
- C) 3
- D) 4
- E) 5

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Survey Question: Lab Value

Question: On a scale of 1 to 5 with 5 being the highest, how valuable/useful was the lab time and assignments?

- A) 1
- B) 2
- C) 3
- D) 4
- E) 5

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Survey Question: Workload

Question: On a scale of 1 to 5 with 1 being very low and 5 being very high, how was the overall workload compared to other courses and your expectations?

- A) 1
- B) 2
- C) 3
- D) 4
- E) 5

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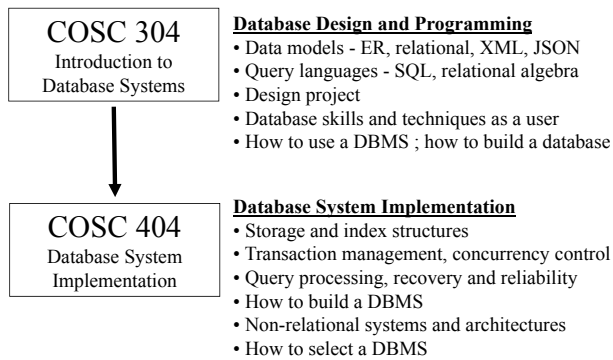
Survey Question: Clicker Value

Question: On a scale of 1 to 5 with 5 being the highest, how valuable/useful were the clicker questions used in-class?

- A) 1
- B) 2
- C) 3
- D) 4
- E) 5

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COSC 304 vs. COSC 404



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COSC 404 Course Goals

COSC 404 is about how a database works (the "**black box**").

- ◆ Inside is storage, indexing, query processing/optimization, transactions, concurrency, recovery, distribution, lots of stuff!

Goals:

- 1) Be a better, "expert" user of database systems.
- 2) Be able to use and compare different database systems.
- 3) Adapt the techniques when developing your own software.

You will gain **lots** of industrial experience using a variety of databases and became a better, more experienced developer.

- ◆ MySQL, PostgreSQL, Microsoft SQL Server, MongoDB, JUnit, VoltDB, Java, JDBC, javacc, JSON, Map-Reduce, SQL

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Thank you for a great course!

Good luck on the exam!

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