

ISE 456 Database Information Systems - Fall 2008

Course Code: 04110 (456) and 04124 (556)

Faculty: David Koonce

Office: 283 Stocker Center

Time: T/Th 10:10 – 12:00 PM

Place: 194 Stocker (occasionally 287)

Email: koonce@ohio.edu

Prereq:

Off. Hours: 9:00 – 10:00 AM T/Th

Text: Database Processing: Fundamentals, Design, and Implementation - 10th Ed
David M. Kroenke, ISBN: 0-13-167267-3

Course General Objective:

Methods and procedures for storing and retrieving data in large computerized databases, in support of manufacturing information. Also covers ER modeling of database systems, using IDEF1X and Crows foot notation. Topics include: database design, normalization, SQL and a database development project. Students will build a Linux/Apache/MySQL/PHP for their project.

Course Specific Objectives:

At the end of this course students should be able to:

- Design a set of relations for storing data.
- Normalize a set of relations to 3rd normal form.
- Develop a set of SQL DML statements to create a set of tables.
- Determine what check constraints may be required for a table.
- Determine the locking requirements for concurrent access
- Develop a SQL query to retrieve required data.
- Develop an IDEF1X data model.

Grade distribution:

- **Homework and labs 50%**
- Mid-term Examination 20%
- Final Project 10%
- Final Examination 20%

Homework, Make up quizzes, midterms, and final policy:

Missed homework submissions, homework not submitted correctly **cannot be made up**. All students will be allowed one missed assignment without penalty. Exams may only be made up when a legitimate class absence occurs. Final grades will be assigned using the following scale. If necessary, grades will be rounded up. (No student's grade will be rounded down.)

A=93-100%	A-=90-92%	
B+=87-89%	B=83-86%	B-=80-82%
C+=77-79%	C=73-76%	C-=70-72%
D+=67-69%	D=63-66%	D-=60-62%
Below60%=F		

Attendance policy:

Class attendance is encouraged, and required, each student is allowed one (2) absences. Each absence after the first two will result in a loss of one (1) point off the final grade.

Scholastic dishonesty policy:

Cheating on examinations, submitting work from other students as your own, or plagiarism will result in an automatic F on the assignment and possible further action from the university.

Course topics & Calendar

Week	Chapter/Topic/Lab
1	Chap. 1 / Intro / Install Linux
2	Chap. 3/ Relational Model/ LAMP
3	Chap. 3&4/ Normalization / MySQL
4	Chap. 2/ SQL DML / PHP
5	Chap. 5/ ER Modeling / MySQL-PHP
6	Exam 1 / Advanced PHP
7	Appx. B / IDEF1X
8	Chap 7/ SQL DDL / MySQL-PHP2
9	Chap 8/ Redesign
10	Project/Catch up