Course Prerequisites: COP 3530
Class Meets: Tuesday & Thursday from 12:00 pm - 1:50 pm in CSB 221

Instructor: Dr. Mark Llewellyn
Office: CSB 242  Office Hours: Monday: 10:00 – 11:30 am
Tuesday: 2:00-3:00 pm
Wednesday: 10:00-11:30 am
Thursday 2:00-3:00 pm
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Course Web Site: www.cs.ucf.edu/courses/cop4710/sum2006

Course Objectives:
The general objective is to provide students with a broad background in database
design, database languages, and database system implementation. The emphasis on
the fundamental concepts of database management will provide you with the ability to
accommodate a variety of database technology. The topics covered will also provide a
firm foundation for further studying, designing, implementing, and effectively using
database systems.

Text: The following text is required:
The text will be supplemented with notes that I will provide for you via the course
web site.

Term Project:
Details of the term project will be provided later. Basically, this will entail you designing,
creating, populating, and manipulating a relational database.

Late Assignments: No late assignments will be accepted by default.

Academic Dishonesty
Cheating on examinations or other serious forms of academic dishonesty will result in a
grade of "F" (and a required report to University officials). Persons "borrowing" someone
else's work on an assignment will receive a zero on that assignment if it is the first offense.
A second offense will be considered a serious form of academic dishonesty. (Borrowing is
equally subject to penalties.) You are not expected to work in isolation on assignments.
Significant learning frequently takes place in the interchange of ideas with one another. In
the final analysis, however, your response to an assignment must be your own, not
someone else's.
Grading:
Two exams will be given, a mid-term exam and a final exam. Exams are given once – be there as there are no dropped test scores.

Term project ................................................................. 20%
Mid-term Exam (on or about June 15th ) ........................................... 30%
Final Exam ( Thursday August 3rd - 12:00-1:50pm) .................................. 30%
Homework Assignments (4-5 total).......................................................... 20%

Grading Scale:
90-100 = A, 80-89 = B, 70-79 = C, 60-69 = D, <60 = F
Plus/minus grading will not be used in this course.

Some Important Dates:
No class: Tuesday July 4th – Independence Day
Last Day to Withdraw: Friday June 23rd
Final Exam: Thursday August 3rd – regular class time (12:00-1:50pm)

Topics To Be Covered:
- General Introduction and basic concepts
- Conceptual Design, Entity-Relationship (ER) and extended ER Modeling
- Relational Model
- ER to relational mapping
- Relational Query Languages
- Structured Query Language (SQL)
- Relational Database Design
- Storage & File Structures
- Indexing & Hashing
- Query Processing and Optimization
- Security and Integrity
- Distributed Database Systems
- Data Mining and Data Warehousing
- Advanced Database Systems (time permitting)