CGS 2545 – Database Systems
Summer 2006 - Syllabus

Course Prerequisites: CGS 1060 or equivalent
Class Meets: Monday & Wednesday from 8:00 - 9:50 am in ENG2 105

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
Phone: 407-823-2790  (voice mail available)
E-mail: markl@cs.ucf.edu
Course Web Site: www.cs.ucf.edu/courses/cgs2545/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 should provide you with the ability
to accommodate to a variety of database technology. The topics covered should also
provide a firm foundation for further studying, designing, implementing, and effectively
using database systems.

Text: The following text is required:
Modern Database Management Systems, 8e, Hoffer, Prescott & McFadden,
The text will be supplemented with notes that I will provide for you via the course
web site.

Labs:
Lab is an integral part of the course. The lab section meets from 10:00-11:50am on
Wednesday (right after class ends on Wednesday) in ENG 187. The lab instructor will
be Kirin Anna. Kirin's office hours will be posted on the course webpage.

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.

Mid-term Exam (on or about June 19th) .......................................................... 30%
Final Exam (Wednesday August 2nd - 8:00-9:50am) ................................... 30%
Lab Assignments (6-7 total)............................................................................. 40%

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: Monday May 29th – Memorial Day
Last Day to Withdraw: Friday June 23rd
Final Exam: Wednesday August 2nd - 8:00-9:50am

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
- Security and Integrity
- Distributed Database Systems
- Data Mining and Data Warehousing
- Advanced Database Systems (time permitting)