

# CGS 2545 – Database Systems – Fall 2010 Syllabus

**Course Prerequisites:** CGS 1060 or equivalent

**Class Meets:** Monday, Wednesday & Friday from 1:30 - 2:20 pm in HEC 118

**Instructor:** Dr. Mark Llewellyn

**Office:** HEC 236

**Office Hours:** Monday & Wednesday 11:30 am – 1:00 pm, 2:30 – 3:30 pm  
Tuesday & Thursday 5:00 – 6:00 pm  
Friday 12:30 – 1:30 pm

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**E-mail:** [markl@cs.ucf.edu](mailto:markl@cs.ucf.edu)

## 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 will be used in this course:

*Modern Database Management*, 9e, Hoffer, Prescott & Topi, Prentice-Hall, 2009, ISBN-13: 978-0-13-600391-5.

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 sections meet on Friday. Section 11 meets from 8:30-9:20am in ENG1 188 and Section 12 meets from 9:30-10:20am in ENG1 187. The lab instructor will be TBD. TBD's office hours will be posted on the course webpage.

**Late Assignments:** All lab assignments will be submitted via WebCourses. 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:**

Three exams will be given, two regular exams and a final exam. Exams are given once – be there; as there are no dropped test scores.

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| Regular Exams .....  | (20% each) 40% |
| Final Exam ( <a href="#">Monday December 13<sup>th</sup></a> - 1:00 - 3:50 pm) ..... | 20%            |
| 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 September 6<sup>th</sup>](#) – Labor Day

[Friday November 26<sup>th</sup>](#) – Thanksgiving Break

Last Day to Withdraw: [Friday October 15<sup>th</sup>](#)

Final Exam: [Monday December 13<sup>th</sup>](#) - 1:00 – 3:50 pm

**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)