

# CGS 2545 – Database Systems – Spring 2014 Syllabus

**Course Prerequisites:** CGS 1060 or equivalent

**Class Meets:** Monday, Wednesday & Friday from 12:30 - 1:20 pm in HPA 125

**Instructor:** Dr. Mark Llewellyn

**Office:** HEC 236

**Office Hours:** Monday & Wednesday 1:30 pm – 3:00 pm  
Tuesday & Thursday 10:30 am – 12:30 pm

**Phone:** 407-823-2790 (voice mail available)

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

**Course Web Site:** [www.cs.ucf.edu/courses/cgs2545/spr2014](http://www.cs.ucf.edu/courses/cgs2545/spr2014)

## 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, 11e*, Hoffer, Prescott & Topi, Pearson, 2013, ISBN-13: 978-0-13-266225-3.

The text will be supplemented with notes that I will provide for you via the course web site.

The labs will be based on material found in:

*Your Office – Microsoft Access 2013 – Comprehensive*, Kinser, Pearson, 2014, ISBN-13: 978-0-13-314303-4.

## Homework Assignments:

There will be homework assignments from time to time to help you practice some of the skills you will learn in the course. All homework assignments will be submitted via WebCourses.

## Lab Assignments:

Lab is an integral part of the course. The lab will allow you to practice and implement many of the skills you will learn in the course. We will discuss how the labs will operate in class. **The lab sections meet on Friday. Section 11 meets from 8:30-9:20am in ENG1 188, Section 12 meets from 9:30-10:20am in ENG1 188, and Section 13 meets from 10:30-11:20 in ENG1 188. The lab instructor will be TBD. TBD's office hours will be posted on the course webpage.**

**Exams:**

There will be a total of three exams during the course, two regular exams and a final exam. Each exam will count 20% of your final grade (see Grading below). Exams are given once. . . be there! The dates of the two regular exams will be determined by the pace of the class, they will be announced in class, on the course website, and via WebCourses at least 1 week before the date of the exam.

**Late Assignments:**

All assignments will be submitted via WebCourses. No late assignments will be accepted by default.

**Academic Dishonesty**

Cheating, on examinations and assignments, 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:**

Regular Exams .....	(20% each)	40%
Final Exam ( <a href="#">Friday April 25<sup>th</sup> - 10:00 am - 12:50 pm</a> ) .....		20%
Homework Assignments (3-4 total).....		20%
Lab Assignments (6-7 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.

**IMPORTANT GRADING NOTE:** The grading scale shown above assumes that you have a submission for each homework and assignment and that you have taken each exam. Failure to submit any homework or assignment will reduce your final grade by one letter grade. For example, if your final total percentage is 83%, yet you failed to submit an assignment, your final grade would be a C and not a B.

**Some Important Dates:**

No class: [Monday January 20<sup>th</sup> – Martin Luther King Jr. Day](#)

[Monday-Friday March 3<sup>rd</sup> – 7<sup>th</sup> – SPRING BREAK](#)

Last Day to Withdraw: [Tuesday March 18<sup>th</sup>](#)

Final Exam: [Friday April 25<sup>th</sup> - 10:00 am – 12:50 pm](#)

**Course Calendar:**

A course calendar will be maintained that details what will be doing in class each day and when assignments and exams will be given. I expect you to check the course calendar frequently so that you are aware of course events.

**Topics To Be Covered:**

- General Introduction and basic concepts
- Conceptual Design, Entity-Relationship (ER) and extended ER Modeling
- Relational Data 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)