

# COP 3530 – Computer Science III

## Summer 2005 Syllabus

**Course Prerequisite:** COP 3503C (CS2) and have passed the Foundation Exam

**Class Meets:** Tuesday & Thursday from 10:00 am - 11:50 am in COMM 103

**Instructor:** Dr. Mark Llewellyn

**Office:** CSB 242

**Office Hours:** Monday: 2:00-3:00 pm  
Tuesday: 12:00-2:00 pm  
Wednesday: 2:00-3:00 pm  
Thursday: 12:00-1:00 pm

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

### Course Objectives

This course is designed to provide a fundamental understanding of algorithm design and analysis of advanced data structures. Advanced data structures and algorithms based upon lists, trees and graphs will be the primary focus of the course. Other advanced data structures such as the set and relational data models will be examined.

**Textbook** The following text is required:

*Algorithms*, Johnsonbaugh and Schaefer, Prentice-Hall, ISBN: 0-02-360692-4, 2004.

### Grading

Two exams will be given, a midterm and a cumulative final exam. Programming assignments will be an integral part of the course. Assignments are to be individual efforts, group assignments are not acceptable. Cheating is not tolerated and will result in a failing grade regardless of performance. Grading scale will be the common 90/80/70/60 scale. Tests are closed book and notes. Calculators of any sort are not allowed on exams.

Quiz average (lowest score dropped) .....	10%
Midterm exam (on or about June 16 <sup>th</sup> ) .....	30%
Final exam ( <b>Thursday August 4<sup>th</sup> – regular class time</b> ) .....	30%
Programming assignments (3-4 expected) .....	30%

**No class:** *Monday May 30<sup>th</sup> – Memorial Day* and *Monday July 4<sup>th</sup> – Independence Day*  
**Last day to withdraw:** *Friday June 24<sup>th</sup>*

## **Recitation Labs**

You are required to attend one recitation lab per week. This semester these labs are on Tuesday: Section 11 at 9:00-9:50am and Thursday: Section 12 at 9:00-9:50am. Quizzes will occur periodically in lab. You will be allowed to drop your lowest quiz score when calculating final grades.

## **Topics To Be Covered**

### *Week 1 – Introduction to CS3 Topics*

- ◆ Read Chapters 1 & 2 for review

More details to appear later.

This is a general time frame only and is subject to the needs of the class. It will be altered without notice, but I will try to follow the same progression. At the end of each class I will tell you what we will be discussing during the next class period. Some of the topics covered will go beyond the depth of coverage provided by the text, thus class attendance is important. I will place notes on the course web site (prior to each day's class) which will be the basis for that day's lecture.

## **Programming Assignments**

All programming assignments will be submitted via WebCT. Expect three or four programming assignments this term. All programs must be done in Java (no exceptions).