

CNT 4714 – Enterprise Computing Spring 2014 - Syllabus

Course Prerequisites: COP 3502C, COP 3330, MAD 2104, CGS 3269

Class Meets: Tuesday & Thursday from 9:00 – 10:15 am in HEC 117

Instructor: Dr. Mark Llewellyn

Office: HEC 236

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

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

E-mail: markl@cs.ucf.edu

Course Web Site: www.cs.ucf.edu/courses/cnt4714/spr2014

Course Objective:

This course will expose you to the world of heterogeneous enterprise computing architecture with an emphasis on networked, distributed applications using objects.

Texts: There is custom textbook for this course that provides you with an in-depth look at many of the topics we will cover in this course and includes many code examples. The ISBN for the textbook is ISBN10: 1-256-57488-0 and ISBN13: 978-1-256-57488-0. I will also provide online notes that will augment the textbook and provide additional details including the installation and configuration of several different servers that you will need during the course.

Grading:

This will be a project-based course and the course grade will be determined by your performance on the various projects that will be assigned throughout the semester. Anticipate between 5-7 projects covering the various topics we will discuss during the lectures. Some of the projects will be smaller and simpler in nature than others and as such the length of time devoted to each project will vary somewhat. Each project will include a detailed description of what you need to accomplish as well as the due date for the project. You will submit your projects via WebCourses. Projects will not be equally weighted towards the final grade, the simpler/smaller/easier projects will not count as heavily toward the final grade as will the more complex/larger/difficult/time-consuming projects. For any project regardless of its size or complexity, be sure to submit your work whether it is totally complete or not. Failure to provide a submission for any assignment will result in the lowering of your final grade by one letter grade. For example, if you have an 83% total for the course but failed to submit assignment 3, then you would receive a C for the course (see grading scale below).

Projects are individual projects, which means that the work you submit must be your own. However, I encourage you to discuss the projects with your classmates and to ask for and provide assistance to each other. Be sure that the work you submit is your work and not that of a classmate (or anyone else for that matter).

The projects will give you experience in dealing with a number of different issues that arise in the world of enterprise computing. Taken as a whole they will provide you with a valuable learning experience in a “real-world” setting.

EXAMS: Depending on the performance of the class as a whole on the early projects there may be a mid-term exam. Depending on the performance of the class as a whole on later projects there may be a final exam. If either or both of these exams occur, they will each count as a project. We will discuss this policy in class in more detail.

Grading Scale:

Plus/minus grading will not be used in this course.

90-100 = A, 80-89 = B, 70-79 = C, 60-69 = D, <60 = F

Some Important Dates:

No class: [Tuesday March 4th](#), [Thursday March 6th](#) – Spring Break Week

Last Day to Withdraw: [Tuesday March 18th](#)

Topics To Be Covered:

1. Multi-threaded applications in Java
2. Event-driven programming (GUIs)
3. Java Networking – socket level application communication
4. HTTP, HTTPS – network protocols
5. ODBC, JDBC, MySQL – Database Connectivity
6. Network and Database Security Issues.
7. Servlets, Java Server Pages.
8. PHP (HTML/CSS driven front-ends)
9. J2EE
10. SOAP and CORBA

This is a general list of topics only and is subject to the needs of the class. It will be altered without notice, but will generally follow the same progression. At the end of each class I will tell you what we will be discussing during the next class period.

Lab Times:

There are no regularly scheduled labs for this course. The TA for the course (see below) will have office hours to answer any programming related questions that you may have and to assist you with the programming of your course assignments. We may also schedule some more formalized group help sessions for some of the programming assignments.

TA Information:

The TA for the course is TBA.