ITIS 3105 – Server-Side Application and Data Management

UNC CHARLOTTE
DEPARTMENT OF SOFTWARE AND INFORMATION SYSTEMS
TUE-THU 3:30 PM - 4:45 PM (Woodward Hall 135)

Professor Mohamed Shehab
Woodward Hall Room 333F

Course office hours WED 1:00-3:00 PM or by appointment; e-mail all times
E-mail: mshehab (at) uncc (dot) edu (please prefix the subject of your message with ITIS3105)

DESCRIPTION:
This course covers principles that are important for implementing server side web-based applications. Emphasis will be placed on building programming and scripting skills required to generate server side web services and web application interfaces. Server-side scripting, processing and composition techniques will be emphasized through class programming projects. The course provides the students with hands-on experience in up-to-date web programming frameworks.

PREREQUISITES:
The official requirements include IT IS 2300 and ITCS 1215. If you do not have the required prerequisites and still want to register for the course you are required to file a “SPECIAL REQUEST” form and get the department approval.

TOPICS:
1. Client-Server architectures.
2. Web server installation and setup.
3. Introduction to PHP.
4. Introduction to Databases (MySQL).
5. Database supported web pages (PHP and MySQL).
6. Cookie and Session Management.
7. XML, XML Namespaces and JSON design.
8. Introduction to API frameworks (Flickr, Google, Yahoo BOSS, OAuth).
9. Web 2.0, Ajax design and implementation.
10. MVC Frameworks.

SCHEDULE:
• First Day of Class 8/23/2011.
• Midterm Exam 10/13/2011.
• Final Exam 12/15/2011.

GRADING POLICY:
Grades are based on projects and homework (60%), midterm exam (20%) and final exam (20%).

RECOMMENDED TEXTBOOKS: