

# CSCI 405 Server Programming

**Instructor:** Dr. David Turner

**Meetings:** 12:00 – 1:15 TR JB 139  
1:30 – 3:20 R JB 359

**Office Hours:** R 3:30 – 5:30 PM JBH 340  
F 2:00 – 4:00 PM

**Quarter:** Winter 2009

**Call Number:** 22517  
22518

**Units:** 4

**Prerequisites:** CSCI 322 or experience with HTML and Java

## Course Description

This is the course web page for CSCI 405 Server Programming. Grades can be accessed through Blackboard. All reference materials and readings for this course are available as free resources on the Web; there is no assigned textbook that you need to purchase.

The course will focus on server-side web application development using the Java language, the Eclipse integrated development environment, the MySQL database server, and the Subversion version control system. The main reference for the course will be the on-line book Java Web Application Programming with Eclipse by David Turner and Jinseok Chae.

Students will learn how to manage code in a source code repository, so they can work on the same code on the computer science department lab machines, personal laptops or home computers. The development process is independent of type of operating system, so students can use Windows, Mac or Linux computers.

## Course Objectives

The goal of this course is to increase your understanding of server programming and develop new skills. Certain topics covered in this course -- such as security, Web protocols, logging, configuration management -- are common to all server programming problems. Other topics -- such as Subversion, Eclipse and the Java programming language -- are specific to the development environments of individual projects. Therefore, the course encourages the acquisition of knowledge that is common to all problems, but requires students to develop specialized skills that are specific to the development of web applications using Java.

## Course Requirements

To complete this course, you need to do the following three things:

- 1) Carry out the instructions given in the on-line book *Java Web Application Programming with Eclipse* and present the running code to the instructor for the example web applications.
- 2) Maintain all code and other artifacts produced for the course in a Subversion repository.
- 3) Complete either the exercise option or the project option (defined below).

### *Exercise Option*

Do all exercises presented in *Java Web Application Programming with Eclipse*. (Omit the additional material in chapters Testing Web Applications and SOAP-Based Web Services.) Demonstrate your solutions to the instructor.

### *Project Option*

Construct the 3 web applications (publisher, website and wiki) presented in *Java Web Application Programming with Eclipse* using one of the following languages/frameworks.

- Struts
- Spring Framework
- PHP
- .NET
- Ruby on Rails
- (discuss with instructor if your preferred language/framework is not in this list)

Submit a report that explains how you accomplish the objectives of each of the chapters

using your alternative approach. Present your solutions to the class on our before finals week.

### **Grading**

Successful use of Subversion	10%
Completion of example web applications	50%
Completion of option requirements	40%

### **Due Dates**

Due dates for demonstration of running example applications and exercises (under option requirement) will be posted on the course web page. Late submission of work will be marked down in points.

### **Students with Disabilities**

If you are in need of an accommodation for a disability in order to participate in this class, please let me know as soon as possible, and also contact Services to Students with Disabilities at UH-183, (909)537-5238.

### **Academic Regulations and Procedures**

See the CSUSB Bulletin of Courses for the university's policies on course withdrawal, cheating, and plagiarism.