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CS 360

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Course Offerings

This Semester All Semesters

Section #	Semester	Instructor	Website	Description
1	Fall 2015	Daniel Zappala	http://cs360.byu.edu/	
2	Fall 2015	Daniel Zappala	http://cs360.byu.edu/	

Submitted by web master on Sat, 04/27/2013 - 9:35am

Short Summary: Internet Programming

Credits: 3

Prerequisites: [CS 240](#)

Internet Programming

Internet application programming including sockets, threads, CGI, database, e-commerce, web services.

This document is not a syllabus. Instead, for ALL offerings of this course, this document states the purpose, expected objectives, and topics for the course. Faculty members teaching this course should adhere to these objectives and topics. Students taking this course can expect to achieve the objectives and cover the topics specified, and faculty members teaching follow-on courses can expect students to have been appropriately exposed to the prerequisite material as stated. The "hours" for topics listed below reflect the approximate number of 50-minute class periods (or equivalent) devoted to each topic.

Purpose

CS 360 teaches the fundamental of the Internet and web applications. Students write a web server and a selection of distributed applications that run on web servers. They also learn how to analyze the performance of a distributed application and make convincing oral and in written arguments.

Learning Outcomes

At the end of this course, students should be able to:

1. Design and implement a variety of client-server and web applications
2. Analyze the performance of a web server, write convincingly to support your conclusions and give an oral report to describe your findings.
3. Implement a web server using processes, semaphores, threads, sockets and signals.
4. Use a set of web programming languages to implement an application.
5. Use security to protect their web application

Topics

- Internet Architecture, sockets and HTTP, web caching (5 hours)
- Concurrent Programming, semaphores, deadlock avoidance (4 hours)
- Performance analysis techniques, writing and oral presentations (4 hours)
- Relational Databases, SQL, sessions, cookies, security (6 hours)
- PHP, Ruby on Rails, Java Script, AJAX (7 hours)
- Model view controller, front controller, entity-relationship modeling (6 hours)
- Evaluating different web technologies (4 hours)

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