CET 4589: Internet Computing 2

Course Description
This course introduces several advanced technologies for interactive web pages and for scalable server-side applications. The course covers web development APIs from Google, web services, and Semantic Web techniques for Web 3.0 applications. Students will complete several projects using the techniques taught in class.

Course Objectives
1. To apply development methods for web-based applications.
2. To learn advanced elements of the JavaScript programming language.
3. To develop rich, interactive client-side applications using JavaScript, AJAX, and third party APIs.
4. To develop server side applications using scripting languages.
5. To develop web applications using Semantic Web technologies.

Required Textbook
No textbook is required. The course uses published guides, and tutorials.

Recommended Books
The following text provides an introduction to various web development technologies and was used by the Introduction to Internet Computing course. It is not required for this course.

Instructor Information
Ionut Cardei, Ph.D., Assistant Professor
e-mail: icardei@cse.fau.edu
web: http://www.cse.fau.edu/~icardei
Boca Raton tel: 561-297-3401
Davie tel: 954-236-1310

Class Time and Location:
Tuesday, 7:10 pm - 10 pm, Davie, LA 134 and in PSL, CO 229

Office Hours Location and Time:
Boca Raton, SE480:
   Monday, 12PM-3:20PM
   Wednesday, 2:00PM-3:20PM
Davie, LA323: Tuesday, 5:40-7PM
Prerequisites
COP 3813, Intro. to Internet Computing
CET 4427, Database Application Development

Topic Areas (subject to change)
- Javascript
- AJAX
- PHP, SQLite
- Web Services with JavaScript and PHP
- Introduction to Python
- Google Web Development Technologies. Selected from:
  - AppEngine, Gadgets, Search, Feed
  - Base Data, Charts, Data, Visualization
- Semantic Web technologies

Course Workload and Grading
Homeworks: 40%
Term projects: 40%
Attendance and class participation: 20%

The final course grade will depend on your performance relative to your colleagues' grades.
Reading assignments will be posted before each class.
Homework assignments will be posted almost every week.

Course Policies
No homework will be accepted late without a serious and credible explanation given before the due date.
Students should come to the instructor with any questions related to the course material, lectures, and grading.
Students are also encouraged to consult each other, check out material online, BUT they must submit their own original work. If substantial amount of work is taken (pasted) from an online source besides the lecture notes, a short note in a source code comment or in a readme.txt file must acknowledge the source and indicate the copied material.
Instances of academic misconduct will be dealt with according to FAU policies.