Syllabus

Instructor: Dr. Oge Marques  Dept: CEECS
Office: EE 441  Phone: (561) 297-3857
Email: omarques@fau.edu  Web: http://goo.gl/etp1cN
Office Hours: Tuesdays 2:00-5:00 pm or by appointment

Course description:
The purpose of this course is to teach students how to design and develop websites and web-based applications using contemporary tools and standards. This course is project-oriented. Students will develop hands-on knowledge of some of the latest web development tools, languages and frameworks, and use that knowledge to complete several web-based projects.

Course objectives:
• To understand the essential components of Internet-based applications.
• To learn how to create interactive web pages and web-based applications using programming tools.
• To provide a solid conceptual understanding of the main standards and technologies associated with contemporary web applications.
• To enable a hands-on experience by developing web-based projects using some of the latest tools, languages, techniques, and best practices.

Textbook (recommended):
“Learning PHP, MySQL, JavaScript & CSS 4th Ed.”, by Robin Nixon

Topics
1. Web design and development today
2. Essential tools for web development
3. HTML 5
4. Cascading Style Sheets (CSS)
5. JavaScript
6. jQuery
7. AJAX
8. PHP
9. MySQL
10. Advanced topics
11. Examples and case studies

Assessment summary:

<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
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</thead>
<tbody>
<tr>
<td>Projects (2)</td>
<td>50 %</td>
</tr>
<tr>
<td>Homework assignments and online quizzes (4-8):</td>
<td>30 %</td>
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<tr>
<td>Fun assignments (2-4)</td>
<td>20 %</td>
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Practical Projects:
Students will work on two individual projects:

- Project 1 consists of designing and setting up a rich client-side-only website using HTML5, CSS3, and JavaScript.
- Project 2 consists of implementing a fully functional client-server web-based app using the best practices in the field.

Additionally, students will be assigned “fun assignments” and hands-on homework assignments, which will provide the basic building blocks for each Project.

*All assignments must be hosted at the student’s web area under [http://lamp.cse.fau.edu](http://lamp.cse.fau.edu).*

More details will be provided during the course.

Policy for Late Assignments (strictly enforced)
Late assignments will be graded with a penalty of 10% of the grade for each day after the assignment’s due date, up to a maximum of 3 days late (i.e., 30% penalty), beyond which the assignment will receive a grade 0 (zero).

Testing Policy
- Assignments and project files will be submitted electronically via Blackboard.
- Online quizzes will be taken on Blackboard.
- There are no exams for this course.

Grading Scale:
- 92-100 = A
- 88-91 = A–
- 84-87 = B+
- 80-83 = B
- 77-79 = B–
- 73-76 = C+
- 70-72 = C
- 66-69 = C–
- 61-65 = D+
- 56-60 = D
- 50-55 = D–
- 0-49 = F
Technical Problem Resolution Procedure
In the online environment, there is always a possibility of technical issues (e.g., lost connection, hardware or software failure). Many of these can be resolved relatively quickly, but if you wait to the last minute before due dates, the chances of these glitches affecting your success are greatly increased. Please plan appropriately. If a problem occurs, it is essential you take immediate action to document the issue so your instructor can verify and take appropriate action to resolve the problem. Please take the following steps when a problem occurs:

1. If you can, make a Print Screen of the monitor when the problem occurs. Save the Print Screen as a .png file.
2. Complete a Help Desk ticket at http://www.fau.edu/helpdesk. Make sure you complete the form entirely and give a full description of your problem so the Help Desk staff will have the pertinent information in order to assist you properly. This includes:
   a. Select “Blackboard (Faculty)” for the Ticket Type.
   b. Enter the Course ID.
   c. In the Summary/Additional Details section, include your operating system, browser, and Internet service provider (ISP).
   d. Attach the Print Screen file, if available.
3. Send an email to your instructor to notify him of the problem. Include all pertinent information of the incident (2b-d above).
4. If you do not have access to a computer, call your instructor with all pertinent information of the incident. If he is not available, make sure you leave a detailed message.
5. If you do not hear back from the Help Desk or your instructor within a timely manner (48 hours), it is your responsibility to follow up with the appropriate person until a resolution is obtained.

Disability Policy Statement
In compliance with the Americans with Disabilities Act (ADA), students who require special accommodation due to a disability to properly execute coursework must register with the Office for Students with Disabilities (http://osd.fau.edu/):
   - in Boca Raton, SU 133, (561) 297-3880;
   - in Davie, MOD 1, (954) 236-1222;
   - in Jupiter, SR 117, (561) 799-8585;
   - at the Treasure Coast, CO 128, (772) 873-3305;
and follow all OSD procedures.

Code of Academic Integrity
Students at Florida Atlantic University are expected to maintain the highest ethical standards. Academic dishonesty is considered a serious breach of these ethical standards, because it interferes with the University mission to provide a high quality education in which no student enjoys an unfair advantage over any other. Academic dishonesty is also destructive of the University community, which is grounded in a system of mutual trust and places high value on personal integrity and individual responsibility. Harsh penalties are associated with academic dishonesty. For more information, see the Code of Academic Integrity in the University Regulations at http://www.fau.edu/regulations/chapter4/4.001_Code_of_Academic_Integrity.pdf.

Instructor’s policies on academic integrity and plagiarism
• Students are expected to sign an electronic form (available through Blackboard) indicating that they have read and understood Florida Atlantic University’s Code of Academic Integrity.
• The instructor reserves the right to use any necessary tools -- e.g., SafeAssign (http://www.safeassign.com/) and MOSS (http://theory.stanford.edu/~aiken/moss/) -- to enforce these policies.
• Any evidence of cheating, plagiarism, or other forms of academic dishonesty will be prosecuted to the fullest extent.
Religious Accommodation
In accordance with rules of the Florida Board of Education and Florida law, students have the right to reasonable accommodations from the University in order to observe religious practices and beliefs with regard to admissions, registration, class attendance and the scheduling of examinations and work assignments. Students who wish to be excused from coursework, class activities or examinations must notify the instructor in advance of their intention to participate in religious observation and request an excused absence. The instructor will provide a reasonable opportunity to make up such excused absences. Any student who feels aggrieved regarding religious accommodations may present a grievance to the director of Equal Opportunity Programs. Any such grievances will follow Florida Atlantic University’s established grievance procedure regarding alleged discrimination. For further information, please see FAU’s Academic Policies and Regulations (http://www.fau.edu/academic/registrar/catalog/academics.php).

University Approved Absence and Make-up Policy
Students are responsible for arranging to make up work missed because of legitimate reasons, such as illness, family emergencies, military obligation, court-imposed legal obligations or participation in University-approved activities. Examples of University-approved reasons to request make up work include participating on an athletic or scholastic team, musical and theatrical performances and debate activities. It is the student’s responsibility to give the instructor notice prior to any such event, whenever possible. The instructor will then provide opportunities to prepare and submit make up work, without any reduction in the student’s final course grade as a direct result of such events.

Incomplete Grade Policy Statement
A student who is passing a course, but has not completed all work due to exceptional circumstances, may, with consent of the instructor, temporarily receive a grade of incomplete (“I”). The assignment of the “I” grade is at the discretion of the instructor, but is allowed only if the student is passing the course. The specific time required to make up an incomplete grade is at the discretion of the instructor. However, FAU policies stipulate that all work required to satisfy an incomplete (“I”) grade must be completed within a period of time not exceeding one calendar year from the assignment of the incomplete grade.

Grade Appeal Process
A student may request a review of the final course grade when s/he believes that one of the following conditions apply: (i) There was a computational or recording error in the grading; (ii) Non-academic criteria were applied in the grading process; (iii) There was a gross violation of the instructor’s own grading system. See http://www.fau.edu/regulations/chapter4/4.002_Student_Academic_Grievance_Procedures_for_Grade_Reviews.pdf for additional information.

Important final remarks:
- Submission of assignments, quizzes, and projects will be done electronically via Blackboard. Do not submit anything by fax or email or any other means.
- All work in this course must be INDIVIDUAL effort unless otherwise specified.
- Changes in class logistics and/or office hours may be necessary during the semester and if so the changes will be announced in the course home page. It is the student’s responsibility to be aware of any such changes.
- Please check the announcements page on Blackboard at least twice a week.
- Email is the best way to contact the instructor.

Course Home Page: The home page for the course on Blackboard is available at: http://bb.fau.edu/