Course Syllabus

IMED 2430 Comprehensive Software Project - Planning and Design (4)
A comprehensive application of skills learned in previous courses in a simulated workplace. Covers the development, testing, and documenting of a complete software and/or hardware solution.

Objectives: The objective of this class is to develop a web site for a client from the planning phase through design, development, scripting, testing and implementation utilizing all of the web design and development skills learned throughout the Web Design and Development curriculum.

Overview: Students will work together in teams to develop a fully functional Web site for a client. Ideally, this will be an actual web site for use by a real non-profit organization. This course is designed to follow IMED 2313 – Project Analysis and Design. Students will be assigned roles as designers and developers and will develop a Web site according to the specifications created and approved by the client in IMED 2313. The final result will be a fully functional website that includes scripting and server-side programming. A test plan and rigorous testing will be included as part of the project. This course is a fast-track course and will be completed in 8 weeks.

Instructor Information:

Instructor: Patti Burks
Phone: 972-860-4329 (Office)
E-Mail: pburks@dcccd.edu
Office: K104 on the Brookhaven campus

Textbook:

• There is no required textbook for this course.

Learning Outcomes:
Successful completion of this course will enable the student to:
(Texas Skill Standards key activities are referenced)

1. Design a computer solution for a business problem
2. Apply individual programming skills while working as part of a team
3. Document and present the project.
4. Gather data to identify customer requirements and capacity (A1)
5. Define scope of work (A2)
6. Prepare and present functional and technical specifications (A3)
7. Prepare preliminary application (A4)
8. Create and refine preliminary design or mockup (A5)
9. Review technical considerations and constraints (A6)
10. Develop project plan (A7)
11. Develop site map application models and user interface specifications (B1)
12. Choose a site plan (B2)
13. Select programming languages, design tools and applications (B3)
14. Write supporting code (B4)
15. Identify major subsystems and interfaces (B5)
16. Develop models (B6)
17. Develop design and interface specifications (B7)
18. Identify system platform, components and dependencies (B8)
19. Research content and information architecture (C1)
20. Coordinate content development from multiple contributors (C2)
21. Develop and present concept alternatives (C3)
22. Create or adapt content (C4)
23. Produce graphics, layout elements and applicable code (C5)
24. Update content (C6)
25. Plan rollout (D1)
26. Facilitate move to production system (D2)
27. Hand off to customer or user (D3)
28. Integrate customer feedback (D4)
29. Perform application maintenance (D5)
30. Recommend optimization and facilitate upgrades and improvements (D6)
31. Document application and site changes (D7)
32. Develop and implement contingency plans (D8)
33. Evaluate and recommend web hardware, software and third party solutions (E1)
34. Support systems recovery (E4)
35. Define and manage development standards (F1)
36. Train designers and developers (F2)
37. Evaluate web technologies and standards (F3)
38. Provide quality customer service (F4)
39. Perform ROI (Return on Investment) analysis to ensure business goals are met (F5)
40. Design and document security plan (F6)
41. Implement and enforce security requirements (F7)
42. Maintain and improve security in response to industry developments and user experience (F8)
43. Develop enterprisewide legal and international privacy guidelines (F9)
44. Develop test and acceptance plan (G1)
45. Develop test procedures (G2)
46. Develop and perform usability and integration testing (G3)
47. Perform tests (G4)
48. Document test results and take corrective actions (G5)
49. Recommend and implement performance improvements (G6)
50. Demonstrate time management skills, adhering to all deadlines for assignments, tests, and projects

Course Outline:

- Week 1: Orientation, Syllabus; Process and plan overview, Team building
- Weeks 2-3: Develop program specifications
- Weeks 4-6: Complete page design, programming and database queries
- Week 7: Present to client
- Week 8: Test system in conjunction with client. Modify and correct errors as necessary. Deploy production website.

GRADING PROCEDURES
You will accumulate course points for work done as follows:

<table>
<thead>
<tr>
<th>Component</th>
<th>Maximum Points</th>
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<tbody>
<tr>
<td>Program Specifications</td>
<td>150</td>
</tr>
<tr>
<td>Completed Website</td>
<td>300</td>
</tr>
<tr>
<td>Testing and Implementation</td>
<td>250</td>
</tr>
<tr>
<td>Participation</td>
<td>100</td>
</tr>
<tr>
<td>Teamwork / Peer Review</td>
<td>100</td>
</tr>
<tr>
<td>Client Feedback</td>
<td>100</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>1000</strong></td>
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</tbody>
</table>

Your final course grade will be determined as shown:

<table>
<thead>
<tr>
<th>Points Earned</th>
<th>Final Grade</th>
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</thead>
<tbody>
<tr>
<td>900-1000</td>
<td>A</td>
</tr>
<tr>
<td>800-899</td>
<td>B</td>
</tr>
<tr>
<td>700-799</td>
<td>C</td>
</tr>
<tr>
<td>600-699</td>
<td>D</td>
</tr>
<tr>
<td>000-599</td>
<td>F</td>
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Late Points
A late penalty of 5 points per week will be assessed on any assignment that is turned in late. No work will be accepted after 1 month past the due date or the last day of the course whichever is sooner.
COMMUNICATION WITH YOUR INSTRUCTOR
I try to review and grade all newly posted material within 2-3 days. Also, you can expect me to respond to your e-mails normally within 24 hours. Be aware that while this is my general and intended practice, it is subject to the changes and chances of life.

Please note: The instructor reserves the right to modify any course requirements and calendar due dates as necessary to manage and conduct this course online. Students are responsible for contacting the instructor and seeking clarification of any requirement that is not understood.

Syllabus Addendum - Institutional Policies (http://www.brookhavencollege.edu/about/vpi/Pages/Syllabus-Addendum.aspx)

Go to http://www.brookhavencollege.edu/onlinesvcs/students/ to learn about all the student services that are available