University of Wisconsin at Milwaukee

School of Information Studies

SYLLABUS

INFOST 440: Web Application Development

Spring 2017- Draft

Instructor: Jim Schultz  
Office: NWQ Bldg B Rm 3428

Email: schul253@uwm.edu  
Phone: 414-229-4639

Meeting Time & location: NWQ1990, Tuesday 5:30PM – 8:10PM

Prerequisite: 240 (P), 340 (C) & 410 (C)

Description

• The interactive web design server interaction
• Special emphasis on database connectivity and application development on the Internet.
• 3 undergraduate credits.

Objectives

1. Understand web servers.
2. Learn how to author PHP documents.
3. Learn how to utilize various functions in PHP for user-friendly web sites.
4. Learn how to make/update a database by SQL through PHP application on the WWW.

Competencies

1. Implement useful and usable web sites with the full power of PHP.
2. Implement database on the web via PHP/MySQL.
3. Integrate PHP with other web features such as forms, JavaScript, and XML.

Required Textbook:


Special needs

If you are a student with any special needs, please discuss them with me ASAP. If any student cannot meet deadlines, let me know before the due date.
Servers

The school provides a development Linux server for PHP/MySQL only for the duration of the semester, but you have the full control over your account. If you are serious in having your own permanent server, consider a commercial web hosting package. There are plenty of cheap web hosting packages as little as a few dollars per month. If you are using public PCs frequently, such as in a computer lab on campus, you are strongly recommended to carry a USB drive for additional backups or to use OneDrive.

Grading

Participation (10%)

Homework (40%)

Tests (20%) (2 Tests)

Final Project (30%)

GRADING SCALE:

<table>
<thead>
<tr>
<th>Score</th>
<th>Grade</th>
<th>Score</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>96-100</td>
<td>A</td>
<td>74-76.99</td>
<td>C</td>
</tr>
<tr>
<td>91-95.99</td>
<td>A-</td>
<td>70-73.99</td>
<td>C-</td>
</tr>
<tr>
<td>87-90.99</td>
<td>B+</td>
<td>67-69.99</td>
<td>D+</td>
</tr>
<tr>
<td>84-86.99</td>
<td>B</td>
<td>64-66.99</td>
<td>D</td>
</tr>
<tr>
<td>80-83.99</td>
<td>B-</td>
<td>60-63.99</td>
<td>D-</td>
</tr>
<tr>
<td>77-79.99</td>
<td>C+</td>
<td>Below 60</td>
<td>F</td>
</tr>
</tbody>
</table>

Course Policies

1. Post all your assignments, discussions and other course related material on time. **No late assignments will be accepted.** Unless an emergency is involved, then the student must contact the instructor as soon as possible.

2. The instructor will provide any assistance upon the students’ inquiry. However, the student is responsible for his/her own effort to complete the assignments.

Assignments

Participation (10%)

- Participation will be based on your regular and substantive contributions to classroom discussions. Students are expected to be fully engaged in lecture by asking and answering questions, and also by completing in-class activities. Active participation requires class attendance; therefore, attendance is expected of all students. Students are allowed one unexcused absence prior to negative effects on their participation grade; each subsequent absence will lower the student’s participation grade by 20%.
Homework (40%)

- There will be 10 weekly homework assignments. Each assignment is due (unless otherwise specified) on the coming Sunday at 11:59 PM CST.
- Since keeping class pace is the most important thing in a programming class, it consists of 40% of the final grade.
- No late work is accepted, please talk with me before each deadline if you have any concerns about being able to complete an assignment on time.

Tests (20%)

- There will be two tests (week 9 & week 14)
- Each test is worth 10% of the final grade.
- Each test may have T/F questions, multiple choice questions, and may also have practical question(s). Test 1 covers all the material covered in week 1 through week 8. Test 2 covers all the material covered in week 10 through week 15.

Final Project (30%)

- Students are asked to build a PHP-based site with a database management system allowing creating, updating and deleting records as well as retrieving records via forms
- It must be written in PHP/MySQL.
- More details will be made available to you in week 12.

Schedule (subject to change)

<table>
<thead>
<tr>
<th>Week</th>
<th>Class Date</th>
<th>Topic</th>
<th>Reading</th>
<th>Assignment</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>01/24/2017</td>
<td>Introduction and Course Overview (Creating web space &amp; ftp accounts)</td>
<td>Syllabus</td>
<td>Homework 1</td>
</tr>
<tr>
<td>2</td>
<td>01/31/2017</td>
<td>HTML, XHTML Review and PHP Basics (Creating first PHP page)</td>
<td>Power Point, and online articles on PHP</td>
<td>Homework 2</td>
</tr>
<tr>
<td>3</td>
<td>02/07/2017</td>
<td>Intro to PHP - Part 1 (PHP basic scripting)</td>
<td>Chapter 1, Power Point</td>
<td>Homework 3</td>
</tr>
<tr>
<td>4</td>
<td>02/14/2017</td>
<td>Intro to PHP – Part 2 (PHP &amp; HTML Forms)</td>
<td>Chapter 2 &amp; 3, Power Point</td>
<td>Homework 4</td>
</tr>
<tr>
<td>5</td>
<td>02/21/2017</td>
<td>Intro to PHP – Part 3 (PHP &amp; HTML Forms Review)</td>
<td>Chapter 4 &amp; 5, Power Point</td>
<td>Homework 5</td>
</tr>
<tr>
<td>6</td>
<td>02/28/2017</td>
<td>Intro to Databases – Part 1 (MySQL)</td>
<td>Chapter 6, Power Point</td>
<td>Homework 6</td>
</tr>
<tr>
<td>Week</td>
<td>Date</td>
<td>Topic</td>
<td>Lecture/Reading Materials</td>
<td>Assignment</td>
</tr>
<tr>
<td>------</td>
<td>------------</td>
<td>----------------------------------------------------------------------</td>
<td>-----------------------------------------</td>
<td>------------</td>
</tr>
<tr>
<td>7</td>
<td>03/07/2017</td>
<td>Intro to Databases – Part 2 (MySQL &amp; PHPMyAdmin) (Test 1 Review)</td>
<td>Chapter 7, Power Point</td>
<td>Homework 7</td>
</tr>
<tr>
<td>8</td>
<td>03/14/2017</td>
<td>Using MySQL &amp; PHP Together (Create a Guestbook) (Test 1)</td>
<td>Chapter 9-11 Power Point</td>
<td>Homework 8</td>
</tr>
<tr>
<td>9</td>
<td>03/21/2017</td>
<td>Spring Break – No Class</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>10</td>
<td>03/28/2017</td>
<td>Advanced MySQL &amp; PHP (Create Advanced Guestbook)</td>
<td>Chapter 9-11 Power Point</td>
<td>Homework 9</td>
</tr>
<tr>
<td>11</td>
<td>04/04/2017</td>
<td>Creating Login Pages – Part 1</td>
<td>Chapter 12, Power Point</td>
<td>Homework 10</td>
</tr>
<tr>
<td>12</td>
<td>04/11/2017</td>
<td>Creating Login Pages – Part 2 Final Project Assigned (Test 2 Review)</td>
<td>Chapter 12, Power Point</td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>04/18/2017</td>
<td>Final project work time</td>
<td>Chapter 13, Power Point</td>
<td>-</td>
</tr>
<tr>
<td>14</td>
<td>04/25/2017</td>
<td>(Test 2) Final project work time</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>15</td>
<td>05/02/2017</td>
<td>Final project work time</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>16</td>
<td>05/09/2017</td>
<td>Final Project Due by May 9th</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**UWM AND SOIS ACADEMIC POLICIES**

The following links contain university policies affecting all SOIS students. Many of the links below may be accessed through a PDF-document maintained by the Secretary of the University. Undergraduates may also find the Panther Planner and Undergraduate Student Handbook useful ([http://www.uwm.edu/Dept/OSL/DOS/Handbook2005-06.pdf](http://www.uwm.edu/Dept/OSL/DOS/Handbook2005-06.pdf)). For graduate students, there are additional guidelines from the Graduate School ([http://www.uwm.edu/Dept/Grad_Sch/StudentInfo/](http://www.uwm.edu/Dept/Grad_Sch/StudentInfo/)).
Students with disabilities. If you will need accommodations in order to meet any of the requirements of a course, please contact the instructor as soon as possible. Students with disabilities are responsible to communicate directly with the instructor to ensure special accommodation in a timely manner. There is comprehensive coverage of issues related to disabilities at the Student Accessibility Center (http://www.uwm.edu/Dept/DSAD/SAC/MainOffice.html), important components of which are expressed here: http://www.uwm.edu/Dept/DSAD/SAC/SACltr.pdf.

Religious observances. Students’ sincerely held religious beliefs must be reasonably accommodated with respect to all examinations and other academic requirements, according to the following policy: http://www.uwm.edu/Dept/SecU/acad%2Badmin_policies/S1.5.htm. Please notify your instructor within the first three weeks of the Fall or Spring Term (first week of shorter-term or Summer courses) of any specific days or dates on which you request relief from an examination or academic requirement for religious observances.

Students called to active military duty. UWM has several policies that accommodate students who must temporarily lay aside their educational pursuits when called to active duty in the military (see http://www3.uwm.edu/des/web/registration/militarycallup.cfm), including provisions for refunds, readmission, grading, and other situations.

Incompletes. A notation of “incomplete” may be given in lieu of a final grade to a student who has carried a subject successfully until the end of a semester but who, because of illness or other unusual and substantial cause beyond the student’s control, has been unable to take or complete the final examination or some limited amount of other term work. An incomplete is not given unless the student proves to the instructor that s/he was prevented from completing course requirements for just cause as indicated above (http://www.uwm.edu/Dept/SecU/acad%2Badmin_policies/S31.pdf).

Discriminatory conduct (such as sexual harassment). UWM and SOIS are committed to building and maintaining a campus environment that recognizes the inherent worth and dignity of every person, fosters tolerance, sensitivity, understanding, and mutual respect, and encourages the members of its community to strive to reach their full potential. The UWM policy statement (http://www.uwm.edu/Dept/SecU/acad%2Badmin_policies/S47.pdf) summarizes and defines situations that constitute discriminatory conduct. If you have questions, please contact an appropriate SOIS administrator.

Academic misconduct. Cheating on exams or plagiarism are violations of the academic honor code and carry severe sanctions, ranging from a failing grade for a course or assignment to expulsion from the University. See the following document (http://www.uwm.edu/Dept/OSL/DOS/conduct.html) or contact the SOIS Investigating Officer (currently the Associate Dean) for more information.

Complaints. Students may direct complaints to the SOIS Dean or Associate Dean. If the complaint allegedly violates a specific university policy, it may be directed to the appropriate university office responsible for enforcing the policy.

Grade appeal procedures. A student may appeal a grade on the grounds that it is based on a capricious or arbitrary decision of the course instructor. Such an appeal shall follow SOIS appeals procedures or, in the case of a graduate student, the Graduate School. These procedures are available in writing from the respective department chairperson or the Academic Dean of the College/School (http://www.uwm.edu/Dept/SecU/acad%2Badmin_policies/S28.htm).

Examinations, Finals. The Secretary of the University is authorized to prepare the final examination
schedule. The time of the final examination for an individual or a class may be changed only with the prior approval of the dean or director of the respective college/school. The change will involve a postponement to a later date. For individuals with exam conflicts, a separate week at the very end of the exam week will be reserved to take one of the conflicting exams (http://www.uwm.edu/Dept/SecU/acad+admin_policies/S22.htm).