University of South Florida Sarasota-Manatee Course Syllabus

COP 4834, Section 591, 3 Credit Hours
Data-Driven Web Sites
Fall 2015, off-campus

Instructor: Hyo-Jeong Kim
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Office: SMC C232
Office Telephone: 941-359-4559
Office Hours: By Appointment

PREREQUISITES: CGS3853 – Web Design (for HTML and CSS); COP 3703 – Intermediate Database (for MySQL and SQL)

COURSE DESCRIPTION: This course teaches the student how to build dynamic, data-driven Web sites using the server-side scripting language PHP (PHP HyperText Preprocessor) to access data primarily using the MySQL database management system.

COURSE TOPICS:
This course will cover the following content areas:
1. The structure and syntax of PHP (variables, data types, expressions, and operators)
2. Functions and control structures (if, switch, while, for, etc.)
3. Manipulating strings, user input, files, directories, and arrays
4. Manipulating MySQL databases with PHP
5. Developing Object-oriented PHP

COURSE OBJECTIVES: Through the study of these topics students will learn the basic structure and syntax of PHP and integrate PHP and MySQL to build interactive Web sites.

COURSE STUDENT LEARNING OUTCOMES: Upon completion of this course, students will be able to:
1. Explain the capabilities, features, and syntax of the PHP language and how it is embedded into HTML pages to make them dynamic.
2. Use PHP to create client-side forms for capturing, validating, and transmitting data from the client to the server for storage in the database.
3. Embed SQL statements within PHP to perform the necessary operations for working with the relational database.
4. Explain and demonstrate how PHP and the relational database are used together to create real-world, dynamic, database-driven Web sites.
5. Completing a term project that includes the design and implementation of a working prototype dynamic, interactive, data-driven Web site.

TEXTBOOK AND MATERIALS:
Don Gosselin et al.
Course Technology 2011

CANVAS USE:
The class syllabus is posted in Canvas, an online course management system. In this class Canvas will be used for posting presentations, assignments, discussions, and any other materials.

Information on how to use Canvas is available at: [http://usfsm.edu/elearning](http://usfsm.edu/elearning)
Canvas is accessible via the myUSF online web portal, or directly at http://learn.usf.edu.

GRADING, EVALUATION AND ATTENDANCE POLICIES:

A. Student performance will be evaluated based on participation, exercises, and projects. The relative weights for each of these components in determining the final grade are as follows:

<table>
<thead>
<tr>
<th>Component</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Participation</td>
<td>12%</td>
</tr>
<tr>
<td>Exercises</td>
<td>48%</td>
</tr>
<tr>
<td>Tests</td>
<td>40%</td>
</tr>
<tr>
<td>Total</td>
<td>100%</td>
</tr>
</tbody>
</table>

A grade will be determined based on the total of possible points earned, as follows: A 90-100; B 80-89; C 70-79; D 60-69; F 0-59. More granularity with +s and –s will also be part of the final grade.

B. Attendance policy: This course is being offered totally online. Instead of attending class synchronously, you need to participate this course asynchronously. Students are expected each week to read the chapters in the textbook as noted in the schedule section below or PowerPoint slides (when provided), submit all assignments, and participate in required discussion via Canvas.

There are four required discussions for your participation points. You need to post your introduction at the beginning of the semester (30 points) and post your answers to three discussion questions throughout the semester (30 points each).

C. Submission of Assignments: You will need to complete a number of exercises each week (40 points each week). All assignments are due no later than 10:00 p.m. on the following Wednesday. They must be uploaded to Canvas. Submitting them via Canvas provides a date and time stamp as proof of timely transmission. Late assignments will be penalized by 20%.

D. Submission of Projects: Web Development Projects (150 points for project 1 and 3, 100 points for project 2) with due dates are listed in the course schedule and projects will also be posted to Canvas. All projects are due no later than 10:00 p.m. on the listed due date. Late projects will be penalized by 20%.
USFSM AND USF SYSTEM POLICIES

A. Academic Dishonesty: The University considers any form of plagiarism or cheating on exams, projects, or papers to be unacceptable behavior. Please be sure to review the university’s policy in the USFSM Catalog, the USF System Academic Integrity of Students, and the USF System Student Code of Conduct.

B. Academic Disruption: The University does not tolerate behavior that disrupts the learning process. The policy for addressing academic disruption is included with Academic Dishonesty in the USFSM Catalog, USF System Academic Integrity of Students, and the USF System Student Code of Conduct.

C. Contingency Plans: In the event of an emergency, it may be necessary for USFSM to suspend normal operations. During this time, USFSM may opt to continue delivery of instruction through methods that include but are not limited to: Canvas, online conferencing/collaboration tools, email messaging, and/or an alternate schedule. It is the responsibility of the student to monitor Canvas for each of their classes for course specific communication, as well as the USFSM website, their student email account, and MoBull messages for important general information. The USF hotline at 1 (800) 992-4231 is updated with pre-recorded information during an emergency. See the Campus Police Website for further information.

D. Disabilities Accommodation: Students are responsible for registering with the Office of Students with Disabilities Services (SDS) in order to receive academic accommodations. Reasonable notice must be given to the SDS office (typically 5 working days) for accommodations to be arranged. It is the responsibility of the student to provide each instructor with a copy of the official Memo of Accommodation. Contact Information: Disability Coordinator, 941-359-4714, disabilityservices@sar.usf.edu, http://usfsm.edu/disability-services/

E. Fire Alarm Instructions: At the beginning of each semester please note the emergency exit maps posted in each classroom. These signs are marked with the primary evacuation route (red) and secondary evacuation route (orange) in case the building needs to be evacuated. See Emergency Evacuation Procedures.

F. Religious Observances: USFSM recognizes the right of students and faculty to observe major religious holidays. Students who anticipate the necessity of being absent from class for a major religious observance must provide notice of the date(s) to the instructor, in writing, by the second week of classes. Instructors canceling class for a religious observance should have this stated in the syllabus with an appropriate alternative assignment.

G. Protection of Students Against Discrimination and Harassment:

1. Sexual Misconduct/Sexual Harassment Reporting: USFSM is committed to providing an environment free from sex discrimination, including sexual harassment and sexual violence (USF System Policy 0-004).

2. Other Types of Discrimination and Harassment: USFSM also is committed to providing an environment free from discrimination and harassment based on race, color, marital status, sex, religion, national origin, disability, age, genetic information, sexual orientation, gender identity and expression, or veteran status (USF System Policy 0-007).

The Counseling and Wellness Center is a confidential resource where you can talk about incidents of discrimination and harassment, including sexual harassment, gender-based crimes, sexual assault, stalking, and domestic/relationship violence. This confidential resource can help you without having to report your situation to either the Office of Student Rights and Responsibilities (OSSR) or the Office of Diversity, Inclusion, and Equal Opportunity (DIEO), unless you request that they make a report.

Please be aware that in compliance with Title IX and under the USF System Policy, educators must report incidents of discrimination and harassment, including sexual harassment, gender-based crimes, sexual assault, stalking, and domestic/relationship violence. If a student discloses any of these situations in class, in papers, or to a faculty member personally, he or she is required to report it to OSSR or DIEO for investigation. Students who are victims or who have knowledge of such discrimination or harassment are encouraged to report it to either OSSR or DIEO. The Deputy
Coordinator for USFSM is Allison Dinsmore, Coordinator of Disability Services & Student Advocacy, #941-359-4714 or adinsmore1@sar.usf.edu.

Campus Resources:
Counseling Center and Wellness Center 941-487-4254
Victim Advocate (24/7) 941-504-8599

List of off-campus resources:
HOPE Family Services: 941-755-6805
Safe Place & Rape Crisis Center (SPARCC) – Sarasota: 941-365-1976
First Call for Help - Manatee: 941-708-6488
         Sarasota & North Port 941-366-5025
Manatee Glens: 941-782-4800; 24-hr Hotline 941-708-6059

H. Web Portal Information: Every newly enrolled USF student receives an official USF e-mail account. Students receive official USF correspondence and Canvas course information via that address. The web portal is accessed at http://my.usf.edu.

GENERAL INSTRUCTION FOR STUDENTS
A. Academic Support Services:
The Information Commons provides students with individual and group study spaces, computers, printers, and various media equipment for temporary use. The Information Commons is staffed by librarians, learning support faculty, tutors, and technology and e-learning specialists. Students challenged by the rigors of academic writing, mathematics, or other course content are urged to contact their professors early in the semester to chart out a plan for academic success, and/or regularly use the tutoring services provided by Learning Support Services, which are provided at no cost to students.
# TENTATIVE COURSE SCHEDULE
(Created 8/26/2015)

Please be aware that this schedule can be changed.

<table>
<thead>
<tr>
<th>Week</th>
<th>Date</th>
<th>Topics</th>
<th>Readings</th>
<th>Assignments</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>8/26</td>
<td>Course Introduction and Overview</td>
<td></td>
<td>Exercise 1</td>
</tr>
<tr>
<td>2</td>
<td>9/2</td>
<td>Introduction to PHP</td>
<td>Chapter 1</td>
<td>Exercise 2</td>
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<tr>
<td>3</td>
<td>9/9</td>
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<td></td>
<td>Exercise 3</td>
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<td>4</td>
<td>9/16</td>
<td>Working with Functions</td>
<td>Chapter 2</td>
<td>Exercise 4</td>
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<td>5</td>
<td>9/23</td>
<td>Manipulating Strings</td>
<td>Chapter 3</td>
<td>Exercise 5</td>
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<td>6</td>
<td>9/30</td>
<td>Handling User Input</td>
<td>Chapter 4</td>
<td>Discussion Due</td>
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<td>Exercise 6</td>
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<tr>
<td>7</td>
<td>10/7</td>
<td>Working with Files and Directories</td>
<td>Chapter 5</td>
<td>Exercise 7</td>
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<tr>
<td>8</td>
<td>10/14</td>
<td>Manipulating Arrays</td>
<td>Chapter 6</td>
<td>Exercise 8</td>
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<tr>
<td>9</td>
<td>10/21</td>
<td>Working with Databases and MySQL</td>
<td>Chapter 7</td>
<td>Discussion Due</td>
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<td>Exercise 9</td>
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<td>10</td>
<td>10/28</td>
<td>Manipulating MySQL Databases with PHP</td>
<td>Chapter 8</td>
<td>Project 1 Due</td>
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<td>11/4</td>
<td>Manipulating MySQL Databases with PHP</td>
<td>Chapter 8</td>
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<td>12</td>
<td>11/11</td>
<td>Managing State Information</td>
<td>Chapter 9</td>
<td>Exercise 11</td>
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<td>13</td>
<td>11/18</td>
<td>Developing Object-Oriented PHP</td>
<td>Chapter 10</td>
<td>Exercise 12</td>
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<td>11/25</td>
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<td>Discussion Due</td>
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<td>Project 2 Due</td>
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<td>16</td>
<td>12/9</td>
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<td></td>
<td>Project 3 Due</td>
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10/31 - LAST DAY TO DROP WITH A ‘W’; NO REFUND, NO ACADEMIC PENALTY