CSCI 4000 Syllabus (10)

COURSE NUMBER: **CSCI 4000**
COURSE TITLE: **Advanced Web Development**
CREDITS: 3
PREREQUISITES: CSCI 3300

INSTRUCTOR: Name: Leong Lee
                     Office: Maynard 206/207
                     Office Hours: by appointment
                     Phone: 931-221-7038
                     E-mail: leel@apsu.edu

CLASS WEB SITE: Please refer to D2L

PROGRAMMING TUTORING
Check out programming peer tutoring service/timing/venue at this link, or use the following URL:
http://www.apsu.edu/csci/opportunities_resources/computer-science-tutoring-services.php

COURSE DESCRIPTION
This course covers advanced concepts of server-based web processing. Create dynamic web pages by using data from a backend database. Acquire and demonstrate web programming skills through a server-side programming language. Identify and apply server-side programming concepts such as requests, functions, data types, operators, arrays and control structures.

COURSE OBJECTIVES
Upon successful completion of this course students should be able to
1. Write and deploy JavaScript programs.
2. Identify and apply JavaScript programming.
3. Manipulate the Document Object Model.
4. Updating Web Pages with AJAX.
5. Write PHP programs by embedding PHP in HTML.
6. Deploy PHP enabled Apache web server and MySQL database server.
7. Use the MVC (Model-View-Controller) pattern to organize PHP code.
8. Identify and apply PHP programming concepts such as requests, functions, data types, operators, arrays and control structures.
9. Write server side PHP programs to get data from forms.

TIME AND PLACE OF CLASS: Mon/Tue/Wed/Thu/Fri 9:40am-11:10am, Maynard 130

REQUIRED LEARNING RESOURCES
Textbooks: Murach's PHP and MySQL, 3rd Edition, by Joel Murach, Ray Harris, ISBN-13: 978-1943872381, Mike Murach & Associates. (You can use an earlier edition, 2nd Edition.)

Others: A USB Flash Drive
              Laptop Computer with Internet Access

ATTENDANCE POLICY AND CLASS PARTICIPATION
Students are expected to attend all classes, arrive on time and participate in classroom discussions. Students are expected to remain in class until the class is finished unless extenuating circumstances such as illness requires the student to leave. If a student leaves class early, the instructor must be notified as to the reason that the student left. Any student who has not attended class and/or submitted assignments for a three week period will receive an FA grade.

ASSIGNMENTS / PROJECTS
Assignments (projects) will be both written and programming. The instructor will not make any adjustments to a student's code when grading, so if any submitted program does not compile (or run) the student will get a zero on the "correctness" portion of the grade (or **50 points** off the overall grade), with no exceptions. Program source code will be turned in electronically.

LATE POLICY AND MAKEUP EXAMS
Assignments (projects) are due on the stipulated due dates, and may be turned in **up to 4** calendars days late with a **25% late penalty**. No assignment will be accepted more than 4 calendar days after the original due date! Students with planned absences, whether for university events, religious observance, or other reason, are expected to make arrangements with the instructor to turn in assignments or take exams before the scheduled date of the assignment or test.

Exam/test dates are on the schedule on the following page — if there are any changes, they will be announced at least one week in advance if possible. A missed exam may be made up only if it was missed due to an extreme emergency and arrangements are made before the exam date. Exams may not be taken early or late due to personal travel plans.

EVALUATION AND GRADING
Each student activity will contribute to the final grade in the class according to the following percentages.

Activity	Percentage
Assignments	50%
Mid-semester exam	25%
Final exam	25%

Final Percentage	Final Grade
90 - 100	A
80 - 89	B
70 - 79	C
60 - 69	D
Below 60	F

POLICY ON MINORS
Minors (any non-student under the age of 18) accompanying staff, faculty, students or visitors on campus are not permitted in the classroom.

DISABILITY POLICY
Any student who has a disability that may affect his/her academic performance is encouraged to make an appointment with me to discuss this matter, or you may contact Disability Services; telephone 221-6230; tty 221-6278; fax 221-7102.

ACADEMIC MISCONDUCT
Students are expected to conduct themselves appropriately at all times. Academic and classroom misconduct
will not be tolerated. Students must read the "Code of Student Conduct" in the new Student Handbook for an
understanding of what will be expected of them within the academic setting.

Students are required to turn in their own work and not the work of others. Collaboration on homework,
assignments, quizzes, and exams is prohibited, unless otherwise specified by the instructor. Likewise,
plagiarism of other's work or web-related sources constitutes a serious infraction. This includes submitting
work very similar to another student's project, copy and paste from Internet searches, and Internet sites for
hiring coders to complete a project. "Penalties for academic misconduct will vary with the seriousness of the
offense and may include, but not limited to, a grade of "F" on the work in question, a grade of "F" in the
course, reprimand, probation, suspension and expulsion." (Quoted from APSU Academic and Classroom
Misconduct). Protect your own work. Do not leave your assignments on the hard drives of the computers or
printers in the lab for others to see.

TOPICAL OUTLINE/CALENDAR

Week / Date	Topic	Reading	Remarks / Due / Exam
1 7/8, Mon	Introduction to web development with PHP How to code a PHP application How to code control statements	PHP Ch. 1 PHP Ch. 2 PHP Ch. 8	**Assignment 1** Due – 7/14, Sun
2 7/15	How to create and use arrays Introduction to relational databases with MySQL How to use PHP and MySQL database	PHP Ch. 11 PHP Ch. 3 PHP Ch. 4	**Assignment 2** Due – 7/17, Wed **Assignment 3** Due – 7/21, Sun
3 7/22	How to work with strings and numbers How to use MVC pattern to organize your code	PHP Ch. 9 PHP Ch. 5	7/24: Last day to drop with an automatic "W" **Mid-semester exam** – 7/24, Wed **Assignment 4** Due – 7/28, Sun
4 7/29	How to work with form data How to work with dates	PHP Ch. 7 PHP Ch. 10	8/2: Last day to drop with a "W", "F" **Assignment 5** Due – 8/2, Fri
5 8/5	AJAX	JavaScript Examples	**Assignment 6** Due – 8/7, Wed **Final Exam** – 8/9, Fri 8/9 – Last day of classes

LAPTOPS AND OTHER ELECTRONIC DEVICES IN THE CLASSROOM
Cell phones must be turned off or on vibrate during class. NO cell phone can be answered during class unless
there is an emergency situation and you have discussed the emergency with the instructor prior to class. No
text messaging is permitted during class. Laptops/ tablets are permitted whenever the student considers the
laptop/tablet as an enhancement of his/her learning experience. However, the student MUST be using the
laptop/tablet in a manner that directly relates to the content of this class such as viewing the slides from the
lecture or taking notes. The laptop/tablet must not be a distraction to others in the class. No other electronic
devices will be allowed in class without prior consent of the instructor.

CAVEAT
The above schedule and procedures are subject to change in the event of extenuating circumstances.