CSCI 4000 Syllabus (24)

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

INSTRUCTOR:	Name:	Leong Lee
	Office:	Maynard 214
	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 http://www.apsu.edu/csci/computer-science-tutoring-services

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 1:00pm-2:30pm, Maynard 130

REQUIRED LEARNING RESOURCES:

Textbooks:
1. Murach's PHP and MySQL, by Joel Murach, Ray Harris, ISBN-13: 978-1890774561, Mike Murach & Associates (**main** textbook)
2. Introduction to JavaScript Programming with XML and PHP, 1st Edition, by Elizabeth Drake (same as CSCI 3300 textbook), ISBN-13: 978-0133068306, Pearson.

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 **one** 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 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.

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 7/6, Mon	Introduction to Apache, PHP Basic PHP skills Control statements (advanced)	PHP Ch. 1 PHP Ch. 2 PHP Ch. 8	Assignment 1
2 7/13	Create and use arrays (advanced) Introduction to relational databases with MySQL PHP and MySQL database	PHP Ch. 11 PHP Ch. 3 PHP Ch. 4	Assignment 2 Assignment 3
3 7/20	Strings and numbers (advanced) MVC pattern	PHP Ch. 9 PHP Ch. 5	Mid-Term Exam 7/22: Last day to drop classes with an automatic "W" Assignment 4
4 7/27	Working with Form Data Dates (advanced)	PHP Ch. 7 PHP Ch. 10	Assignment 5 7/31: Last day to drop classes with a "W", "F" or "FA"
5 8/3	AJAX	JavaScript Examples	Assignment 6 Final Exam

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.