
CSCI 4000 Syllabus (W10, W1)

COURSE NUMBER: **CSCI 4000**
COURSE TITLE: **Advanced Web Development**
CREDITS: 3
PREREQUISITES: CSCI 3300
SEMESTER / YEAR: Spring 2021

INSTRUCTOR: Name: Leong Lee
Office Hours: Tue/Thu/Fri: 9:00am-11:00am,
or by appointment
Office Hours Format: **Microsoft Teams**
New Chat “Lee, Leong”, followed by video call if needed
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:
https://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.

STUDENT LEARNING OUTCOMES

- Analyze a complex computing problem and to apply principles of computing and other relevant disciplines to identify solutions.
- Design, implement, and evaluate a computing-based solution to meet a given set of computing requirements in the context of the program’s discipline.
- Support the delivery, use, and management of information systems within an information systems environment.



- Identify and analyze user needs and to take them into account in the selection, creation, integration, evaluation, and administration of computing-based systems.

TIME AND PLACE OF CLASS:

Section W10:

Tue/Thu 12:45pm-2:10pm, Virtual Online
Video Conferencing at a Scheduled Time **via Zoom**

Please check D2L Announcements for Zoom Meeting ID

Section W1: Optional to join the above, not required

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

- Laptop Computer with Internet Access
- A USB Flash Drive
- A 2nd Monitor is highly recommended (not required)

MINIMUM TECHNOLOGY REQUIREMENTS

- **Microsoft Windows**-based Computer with webcam, and mouse
- Everyday Internet access capable of supporting Zoom video conferencing
- **Zoom Client**
 - <https://www.apsu.edu/online/technology/zoom.php>
 - Login to Zoom
 - Install Client Software
 - **sign in with SSO**
 - **apsu.zoom.us** (company domain)
 - use apsu email login, you should see “licensed” next to your name
- **Microsoft Teams Client**
 - MS Teams is part of MS Office 365.
 - APSU students can install Office 365 Apps on up to 5 personal devices, FREE.
 - Two ways to install Office 365 Client, chose one below
 - <https://govstech.apsu.edu/TDClient/2071/Portal/Requests/ServiceDet?ID=14541>
 - Upper left corner (Icon) > Office 365 > Install Office
 - <https://www.apsu.edu/information-technology/helpdesk/microsoft-student-advantage-program.php>
 - Install MS Teams Client, sign in with apsu email login

ATTENDANCE POLICY

Student attendance is defined as active participation, which will be characterized by the student’s **timely submission of assignments**.

Students who fail to meet active participation requirements within the first 14 days of the course should be given an **FN** (Never Attended). If a student meets active participation requirements during the first week of class, and then subsequently fails to actively participate, students should be given an **FA** (Failure to Attend).



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 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 7** calendar days late with a **25% late penalty**. No assignment will be accepted more than 7 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 points
Mid-semester exam	0 points (canceled)
Final exam	25 points

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

POLICY ON MINORS

Minors accompanying staff, faculty, students, or visitors on campus are not permitted in classrooms. However, affiliated minors may utilize classrooms designated for use by a program approved by the university in which they are a participant.

DISABILITY POLICY

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

ACADEMIC AND CLASSROOM 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. Policy 3:005 will be followed in reporting any suspected cases of academic misconduct.

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, using code found on another computer, and using Internet sites for hiring coders or tutors 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. If you are ever worried that anything you do may be flagged for academic dishonesty, please contact me for help and guidance.

TOPICAL OUTLINE/CALENDAR

Week / Date	Topic	Reading	Remarks / Due / Exam
1 1/19, Tue	Introduction to web development with PHP	PHP Ch. 1	1/18: MLK Holiday
2 1/25, Mon	How to code a PHP application	PHP Ch. 2	
3 2/1	How to code control statements How to create and use arrays	PHP Ch. 8 PHP Ch. 11	Assignment 1 Due – 2/7 Sun
4 2/8	Introduction to relational databases with MySQL	PHP Ch. 3	
5 2/15	How to use PHP and MySQL database	PHP Ch. 4	2/13-2/15: Spring Break I , no class Assignment 2 Due – 2/21 Sun
6 2/22	How to use PHP and MySQL database	PHP Ch. 4	
7 3/1	How to work with strings and numbers	PHP Ch. 9	Assignment 3 Due – 3/7 Sunday
8 3/8	How to use MVC pattern to organize your code	PHP Ch. 5	3/11-3/14: Spring Break II , no class
9 3/15	How to use MVC pattern to organize your code	PHP Ch. 5	
10 3/22	How to use MVC pattern to organize your code	PHP Ch. 5	Assignment 4 Due – 3/28 Sun
11 3/29	How to work with form data How to work with dates	PHP Ch. 7 PHP Ch. 10	3/29: Last day to drop with an automatic "W" 4/2, Fri: Good Friday , University Closed
12 4/5	Create and use arrays (advanced)	PHP Ch. 11	Assignment 5 Due – 4/11 Sunday
13 4/12	AJAX	JavaScript Examples	
14 4/19	AJAX	JavaScript Examples	
15 4/26	Exam Revision		Assignment 6 Due – 4/26 Monday 4/28 Wed: Last day of classes 4/29 Thu: Study Day 4/30-5/6: Final Exam Period
16 5/3	All final exams will be offered online during the final exam week. Please check D2L when your exam will be offered online.		All final exams will be offered online during the final exam week. Please check D2L when your exam will be offered online.



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: Policies and procedures may change due to extenuating circumstances.

SYLLABUS SUPPLEMENT

ZOOM GUIDELINES

Some or all of the class sessions may be audio/visually recorded. The video and/or audio recordings may be used for educational purposes and may be made available to all students currently enrolled in the course and to university officials with a legitimate educational interest in reviewing the recording. The recording is made for educational purposes to provide a resource to students during the remainder of the course.

Students should not make their own recording of the class session or distribute a copy of the instructor's recording of the class session unless appropriate approval has been received prior to making the recording. Distributed recordings are not a transfer of any copyrights in the recording. Public distribution of such materials by students may constitute copyright infringement in violation of federal or state law, or University policy. Further, the University prohibits the recording or transmission of classroom lectures and discussions by students unless written permission from the instructor has been obtained and all students in the class as well as guest speakers have been informed that audio/video recording may occur. Violators may be subject to disciplinary action pursuant to the Student Code of Conduct.

COVID-19 STATEMENT & GUIDELINES

Austin Peay State University is concerned for the health and well-being of the entire community. The nature of COVID-19 is such that each of our individual actions affects not only our personal well-being but also those of every other person with whom we interact or share a space. Given the possibility of changes to CDC guidelines or those of local or state officials, students and faculty alike will need to be adaptable and flexible as events may occur that necessitate a change in the course schedule or mode of delivery. To minimize the disruption that might occur if a student falls ill or is unable to attend classes for some other legitimate reason, class materials must be made available electronically to students unless the nature of the coursework makes this impossible.

To enhance the health and safety of the APSU community, it is expected that every member of this course acknowledges the following university guidelines:



Masks and face coverings:

All students are expected to wear masks or face coverings and maintain physical distancing in all university buildings. Both are necessary classroom requirements that will help keep our community safe.

1. All students and instructors must arrive to class wearing a mask or face covering over their mouth and nose. If a student does not have a mask or face covering, the student must pick up a disposable mask (available throughout campus – in classrooms and in administrative academic department offices) before joining the class session.
2. If a student habitually arrives to class without wearing a mask or face covering, the student may be advised that they can only attend an online section of the course, if such an option is available, for the remainder of the semester. If the course is not available online, the student will be informed that the in-person course is the only option and they will be given one more opportunity to return to class and wear a mask or face covering. The instructor will file a report with the Dean of Students in the Office of Student Affairs. The student may face sanctions up to and including the student being administratively withdrawn from the course and not receive a refund of tuition or fees.
3. If a student refuses to put on a mask or face covering in a class, after being instructed to do so, the instructor will request that the student leave the class. The instructor will file a report with the Dean of Students in the Office of Student Affairs. The student will face sanctions up to and including the student being administratively withdrawn from the course and not receive a refund of tuition or fees. If a student refuses to leave the classroom upon request from an instructor, campus police will be called to escort the student from the classroom. In this case, the student will again be referred to the Dean of Students in the Office of Student Affairs. If this situation occurs, the faculty member may take a break or dismiss the class for that day at their discretion. (Questions regarding Failure to Comply Code of Student Conduct violations should be directed to the Dean of Students, 931-221-7323).
4. If a student has a medical condition that inhibits the student's ability to wear a mask or face covering, the student must contact Disability Services to receive an accommodation (931-221-6230). If a student seeks an exception to the mask requirement, the faculty member and advisor should work with the student to seek an online section of the course. If an online section is not available, or the student does not wish to enroll in the online course, the faculty member will provide instruction to the student remotely, using available lecture capture and other appropriate technology.

Student Absences:

Students unable to attend class due to COVID-19 policy or another serious illness, will:

1. Notify their instructor and follow campus guidelines regarding a safe return to campus;
2. Not be penalized for class absences assuming they make up missed assignments in a timely fashion, in consultation with (and at the discretion of) the instructor; and
3. Be provided reasonable accommodations to access all course materials and will be given the opportunity to complete missed assignments online as is practicable.

Student Illness:

If a student tests positive for COVID-19 or is experiencing any COVID-19 symptoms (fever or chills, shortness of breath or difficulty breathing, cough, muscle pain, sore throat, headache, fatigue, new loss of taste or smell, congestion or runny noses, nausea or vomiting, diarrhea), remain at home, please complete the COVID 19 reporting form (https://cm.maxient.com/reportingform.php?AustinPeayStateUniv&layout_id=19), and seek medical assistance or COVID-19 testing if instructed to do so. Students may reach out to Boyd Health Services for guidance. The student should not return to class (or campus activities) until the student has been released by Boyd Health Services. Boyd Health Services will provide guidance during the quarantine/isolation period and a representative from the Office of the Dean of Students will contact the student to provide additional information.



STUDENT COMPLAINTS AND APPEALS PROCEDURES

Discuss your concerns with your faculty member or contact the department chair if you need assistance in resolving an issue. APSU has a variety of policies and procedures for students to file a complaint, appeal, or grievance. Please visit this [webpage](#) for more information.

SERVICE ANIMALS IN THE CLASSROOM

Consult [Policy 3:007 Animals on Campus](#) for appropriate situations allowing service animals in the classroom.

MIDTERM GRADES

A midterm grade shall be awarded for all students in courses numbered lower than 3000. The grade awarded may not necessarily be based on 50% of the course requirements and may or may not differ from the final grade. Your midterm grade will be posted on AP Self Service.

CAVEAT

Policies and procedures may change due to extenuating circumstances.

