



# Backend Web Dev. (Online)

CSCI 4970/6970

## Instructor Info —

- Kelvin Gao
- Office Hrs: TuTh 9:00 AM to 10:30 AM (Request Needed)
- Zoom and GH205
- www.kell.vin
- zgao1@aum.edu

## Course Info —

- Prereq: CSCI 3700 (Database Systems), CSCI 4970 (Front-end Web Dev.)
- Flexible
- Check Blackboard Annoucement
- Zoom Virtual Meeting Room

## Lab Info —

- Flexible
- Flexible
- Github

## TA Info —

- TBD
- Office Hrs: TBD
- TBD

## Overview

This course gets students started with PHP and MySQL (or its drop-in replacement, MariaDB) as quickly as possible and then builds out their skills in a professional way. To present the whole array of PHP and MySQL skills in a manageable progression, this course is divided into three modules - overview, PHP and MySQL.

## Material

Murach's PHP and MySQL (3rd Edition), 978-1-943872-38-1, by Joel Murach and Ray Harris

## Grading Scheme

10%	Attendance (by checking last access to Blackboard)
30%	Class Project
20%	Programming Assignment
40%	Weekly Quiz/Exercise

Grades will follow the standard scale: A = 89.5-100; B = 79.5-89.4; C = 69.5-79.4; D = 60-69.4; F <60. Curving is at the discretion of the professor.

## Blended (Hybrid) Flipped Classroom format

We have two sections every week:

Section 1 - We meet every Tuesday 3:35 PM to 4:50 PM via Zoom. A video will be recorded for online students or students who can't attend the section.

Section 2 - If you have questions regarding the class content, come to the classroom in person every Thursday 3:35 PM to 4:50 PM. (Maximum 10 students in the classroom. Check-in is required.)

## Late Submission Policy and Make-up Policy

Except in the cases outlined above for excused absences, programming assignments must be submitted before the specified deadline in order to receive full credit.

- 0 to 24 hours late: 10% of points will be deducted from the original score.
- 24 to 48 hours late: 20% of points will be deducted from the original score.
- Others: No acceptance.

Note: No late submissions will be accepted after the final exam.

Make-up exams or assignments will only be allowed for students who have a substantiated excuse approved by the instructor *before the due date*. Leaving a phone message or sending an e-mail without confirmation is not acceptable.

## Learning Objectives

Students will be able to develop dynamic web pages by using PHP and MySQL. In addition, students will also learn how to interact with the back-end web server with jquery and create web applications.

# FAQs

? What programming languages are expected to use?

! PHP, SQL, (HTML5, CSS3 And Javascript)

? Any programming work in this course?

! Yes, we do have several class projects that require programming works.

? How are exams organized?

! If it allows, the exams will include a text part and a practical part. Details will be given in the class.

## Diversity and Inclusivity Statement

I consider this classroom to be a place where you will be treated with respect, and I welcome individuals of all ages, backgrounds, beliefs, ethnicities, genders, gender identities, gender expressions, national origins, religious affiliations, sexual orientations, ability - and other visible and non-visible differences. All members of this class are expected to contribute to a respectful, welcoming and inclusive environment for every other member of the class.

## Accommodations for Students with Disabilities

Students who need accommodations are asked to arrange a meeting during office hours to discuss your accommodations. If you have a conflict with my office hours, an alternate time can be arranged. To set up this meeting, please contact me by e-mail. If you have not registered for accommodation services through the Center for Disability Services (CDS), but need accommodations, make an appointment with CDS, 147 Taylor Center, or call 334-244-3631 or e-mail CDS at [cds@aum.edu](mailto:cds@aum.edu).

## Free Academic Support

All students have the opportunity to receive free academic support at AUM. Visit the Learning Center (LC) in the WASC on second floor Library or the Instructional Support Lab (ISL) in 203 Goodwyn Hall. The LC/ISL offers writing consulting as well as tutoring in almost every class through graduate school. The LC may be reached at 244-3470 (call or walk-in for a session), and the ISL may be reached at 244-3265. ISL tutoring is first-come-first served. Current operating hours can be found at [www.aum.edu/learningcenter](http://www.aum.edu/learningcenter)

Blackboard support: Students may seek technology assistance from the ITS Help Desk located in the computer lab on the first floor of the Taylor Center. You may also call 334-244-3500 or email [helpdesk@aum.edu](mailto:helpdesk@aum.edu).

## AUM Policy COVID-19 Requirements

Following the AUM social distancing and face covering policy, all members (faculty and students) in this class must maintain social distancing at all time in an indoor classroom as follows:

1. Stay at least 6 feet from other people
2. Avoid unnecessary grouping and congregating of people
3. Adhere to posted signage that regulates pedestrian traffic flow

All members (faculty and students) must wear face coverings (face masks, face shields, and any other covering that is consistent with federal and state public health guidance, while in an indoor classroom at all time.

Students who violate this policy will be asked to leave the classroom to access the lecture/course materials online and may be referred to the Office of the Dean of Students and be subject to discipline policy described in the Student Handbook.

## Academic Integrity

The University Code of Academic Integrity is central to the ideals of this course. Students are expected to be independently familiar with the Code and to recognize that their work in the course is to be their own original work that truthfully represents the time and effort applied. Violations of the Code are most serious and will be handled in a manner that fully represents the extent of the Code and that befits the seriousness of its violation.

## Class Schedule

### MODULE 1: Get started fast with PHP and MySQL

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Week 1	Introduction to web development with PHP	Aug 18: introduction.pptx, syllabus, ch1ch2.pptx
Week 2	How to use PHP with a MySQL database	Aug 25: ch3ch4.pptx
Week 3	How to use the MVC pattern to organize your code	Sep 1: ch5ch6.pptx, Homework 1

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### MODULE 2: Master PHP programming

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Week 4	How to work with form data	Sep 8: ch7.pptx
Week 5	How to work with control statements	Sep 15: ch8.pptx
Week 6	How to work with php data type	Sep 22: ch9ch10.pptx, ch15.pptx(optional) Class Project <b>Due: Homework 1</b>
Week 7	How to create and use arrays	Sep 29: ch11.pptx, Homework 2
Week 8	How to work with cookies and sessions	Oct 6: ch12.pptx
Week 9	How to create and use functions	Oct 13: ch13.pptx
Week 10	How to create and use objects	Oct 20: ch14.pptx
Week 11	How to use regular expressions, handle exceptions, and validate data	Oct 27: ch15.pptx

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### MODULE 3: Master MySQL programming

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Week 12	MySQL review	Nov 3: ch16to18.pptx
Week 13	Professional PHP for working with MySQL	Nov 10: ch19.pptx
Week 14	A database-driven website	Nov 17: ch20.pptx
Week 15	Spring Break	
Week 16	No Class	Nov 29: <b>Due: Programming Assignment 2, Class Project Report</b>

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