Course Syllabus

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Point Loma Nazarene University

School of STEM

CIT 4014 Web Programming

4 Credit Hours

Fall 2025 | Quad 2

Hybrid

October 27 - December 21

Meeting Days: Wednesday Evenings

Meeting Times: 6:00 p.m. - 10:00 p.m.

Meeting Location: Grossmont Community College-Room 34-170

Final Exam: (Day/Time): Wednesday, December 18, 8:30 p.m.

   NOTE: Students must earn 50% or more on the final exam and 60% of the total points in the class to pass the course

Instructor: Prof. Andrew Brigante

Email: abrigant@pointloma.edu

Office Location and Hours: Online, anytime as needed by appointment

PLNU MISSION

To Teach ~ To Shape ~ To Send

Point Loma Nazarene University exists to provide higher education in a vital Christian community where minds are engaged and challenged, character is modeled and formed, and service is an expression of faith. Being of Wesleyan heritage, we strive to be a learning community where grace is foundational, truth is pursued, and holiness is a way of life.

INSTITUTIONAL LEARNING OUTCOMES

1. Learning, Informed by our Faith in Christ - Students will acquire knowledge of human cultures and the physical and natural world while developing skills and habits of the mind that foster lifelong learning.
2. Growing, In a Christ-Centered Faith Community - Students will develop a deeper and more informed understanding of others as they negotiate complex professional, environmental and social contexts.
3. Serving, In a Context of Christian Faith - Students will serve locally and/or globally in vocational and social settings.

DEPARTMENT MISSION

The Mathematical, Information, and Computer Sciences department at Point Loma Nazarene University is committed to maintaining a curriculum that provides its students with the tools to be productive, the passion to continue learning, and Christian perspectives to provide a basis for making sound value judgments.

COURSE DESCRIPTION

This course is designed to provide a practical approach to web development using either server side or client side scripting languages, such as PHP, ASP or JavaScript. This course teaches the core language and implementation of webpage based scripting. Students will learn the web programming language and practices through many hands-on assignments in developing web based applications. The integration of databases, such as MySQL or MS SQL will provide additional depth of knowledge. In addition the course will introduce other forms of modern web based protocols, such as XML, JSON and SOAP.

Letter grade.
Prerequisite(s): CIT 3054

Required Textbook

Note: the print copy textbook for this course is lent to the students for the duration of the course. Students will be charged if the textbook is not returned at the end of the course).

* *Murach's PHP and MySQL,* 4th Edition, Joel Murach and Ray Harris, ISBN:978-1943873005

Needed Supplies

Access to a laptop computer running Windows or MacOS with at least 8Gb of RAM and 50Gb of free storage space, standard office software, and the ability to install software on your computer. You are required to bring your computer to class to work on in-class activities and to begin assignments. You should bring your textbook to each class sessions. We will be using information from the textbook each week as part of in class assignments.

COURSE LEARNING OUTCOMES

1. Students will be able to create to develop Server Side Script programs.
2. Students will be able to use an Integrated Development Environment (IDE) to create programs.
3. Students will be able to implement appropriate decision and iterative structures in programs.
4. Students will be able to select appropriate program PHP functions to meet program design specifications.
5. Students will be able to create programs that access a database and process the data within the program.
6. Students will be able debug their program using the IDE debugging tool..

COURSE ORGANIZATION

Reading: The assigned reading each week should be completed before class. Lecture, class discussion, and class activities will be based on the assumption that the reading has been completed before the class of a given week.

Chapter Quizzes: Quizzes are open book and will focus on having read and understood the reading assignment. Quizzes will be taken online using Canvas before class and available a week before they are due. Each quiz will have ten questions, and students will have 10 minutes to complete the quiz. Each quiz is due before we discuss the topic in class. This is to encourage students to complete the reading before class discussion. Missed quizzes will receive zero points, and there will be no make-up for missed quizzes. Quiz questions are randomly pulled from a large dataset, and students can take the quiz as often as they would like before the quiz's due date and time. The last quiz score will be recorded.

Chapter Exercises: Each week, students will complete and submit chapter exercise assignments before the start of class for each chapter read. Chapter exercises will have step-by-step instructions and instruction videos to assist in their completion and will reinforce the concepts presented in the chapter.

Week Lab Assignment: Each week, students will be assigned lab assignment problems based on the chapters covered in that week. The problems will be started during class and completed before the next class session.

PHP Research Paper and Presentation: Students will select a research topic related to the implementation or use of PHP. The research paper will be 1000+ words and in APA format. The presentation will be based on the report and be 7 to 10 minutes and will be given during the last course session.

Final Exam: A final exam will be given in class. The final exam will cover all material throughout the course. The exam will consist of two parts. The first part will be a closed book, closed note multiple choice exam. Questions will be similar to questions from the chapter quizzes and cover the same knowledge domains. The second part will be an open-book practical exam where students are given programming problems to create or correct.   **A score of 50% or more must be earned on the final exam to earn a passing grade in the course.**

If you will miss an exam for a school function, you must make arrangements to take it at an alternative time. If you ever miss an exam without giving the instructor prior notice, there is a good chance you will receive a zero unless, of course, there was an emergency. The final exam must be taken on your host Operating System. The use of a virtual machine is not allowed during the exam.

Email and Messages:

Students are expected to use their PLNU email regularly. The instructor will periodically send you information and updates via email and/or canvas. Students **must** activate their PLNU email account a week before the first class session if they are not currently using it.

COURSE CREDIT HOUR INFORMATION

In the interest of providing sufficient time to accomplish the stated course learning outcomes, this class meets the PLNU credit hour policy for a 4-unit class delivered over eight weeks. Plan on setting aside a minimum of 10 to 15 hours per week to complete all assignments. Specific details about how the class meets the credit hour requirements can be provided upon request. It is anticipated that you will spend a minimum of 37.5 participation hours per credit hour in your course. The estimated time expectations for this course are shown below:

Credit Hour Distribution

Category	Hours
Reading and Chapter Activities	72
Chapter Review and Quizzes	9
In-Class Discussion and Activities	28
Weekly Labs	18
PHP Research Paper and Presentation	16
Exam Preparation	7
Total Hours	150

ASSESSMENT AND GRADING

Grades will be based on the following:

Late Work and Missed Work

Quizzes are not accepted late. If you fail to take the chapter quiz before the due date/time, you will receive zero points for the quiz. Other assignments can be submitted late but will receive a 10% point deduction for each day late (24-hour period after the due date/time). Late assignments will not be accepted more than four days late. No assignment will be accepted after the last day of class.

Activity Point Distribution

Category	Points	Percentage
Online Discussion/Questions	100	10%
Chapter Quizzes	150	15%
Chapter Exercises	225	23%
Weekly Labs	180	18%
Research Paper and Presentation	50	5%
Final Exam	270	28%
Total	**975**	**100%**

Students **must earn 60% or more of the available points in the class and 50% or more of the points on the final exam** to earn a passing grade in the course.

A	92.50 - 100%	C	72.50 - 77.49%
A-	90.00 - 92.49%	C-	70.00 - 72.49%
B+	87.50 - 89.99%	D+	67.50 - 69.99%
B	82.50 - 87.49%	D	62.50 - 66.49%
B-	80.00 - 82.49%	D-	60.00 - 62.49%
C+	77.50 - 79.99%	F	0 - 59.99%

ARTIFICIAL INTELLIGENCE (AI) POLICY

You are allowed to use Artificial Intelligence (AI) tools (e.g., ChatGPT, Gemini Pro 1.5, GrammarlyGo, Perplexity, etc) to generate ideas, but you are not allowed to use AI tools to generate content (text, video, audio, images) that will end up in any work submitted to be graded for this course. If you have any doubts about using AI, please gain permission from the instructor.

PLNU ACADEMIC ACCOMMODATIONS POLICY

PLNU is committed to providing equal opportunity for participation in all its programs, services, and activities in accordance with the Americans with Disabilities Act (ADA). Students with disabilities may request course-related accommodations by contacting the Educational Access Center (EAC), located in the Bond Academic Center (EAC@pointloma.edu or 619-849-2486). Once a student's eligibility for an accommodation has been determined, the EAC will work with the student to create an Accommodation Plan (AP) that outlines allowed accommodations. The EAC makes accommodations available to professors at the student's request.

PLNU highly recommends that students speak with their professors during the first two weeks of each semester/term about the implementation of their AP in that particular course. Accommodations are not retroactive, so clarifying with the professor at the outset is one of the best ways to promote positive academic outcomes.

Students who need accommodations for a disability should contact the EAC as early as possible (i.e., ideally before the beginning of the semester) to ensure appropriate accommodations can be provided. It is the student's responsibility to make the first contact with the EAC. Students cannot assume that because they had accommodations in the past, their eligibility at PLNU is automatic. All determinations at PLNU must go through the EAC process. This is to protect the privacy of students with disabilities who may not want to disclose this information and are not asking for any special accommodations.

PLNU ATTENDANCE AND PARTICIPATION POLICY

Attendance is expected at each class session. In the event of an absence you are responsible for the material covered in class and the assignments given that day.

Regular and punctual attendance at all synchronous class sessions is considered essential to optimum academic achievement. If the student is absent for more than 10 percent of class sessions (virtual or face-to-face), the faculty member will issue a written warning of de-enrollment. If the absences exceed 20 percent, the student may be de-enrolled without notice until the university drop date or, after that date, receive the appropriate grade for their work and participation. In some courses, a portion of the credit hour content will be delivered asynchronously and attendance will be determined by submitting the assignments by the posted due dates. See Academic Policies in the Graduate and Professional Studies Catalog. If absences exceed these limits but are due to university excused health issues, an exception will be granted.

For example: In a four-unit 8-week hybrid course, a student may be de-enrolled after missing five hours of synchronous class time.

It is the student's responsibility to maintain his/her class schedule. Should the need arise to drop this course (personal emergencies, poor performance, etc.), the student has the responsibility to follow through (provided the drop date meets the stated calendar deadline established by the university), not the instructor. Simply ceasing to attend this course or failing to follow through to arrange for a change of registration (drop/add) may easily result in a grade of F on the official transcript.

Synchronous Attendance/Participation Definition

For synchronous courses that have specific scheduled meeting times (including in-person, hybrid, and synchronous online courses), absences are counted from the first official meeting of the class regardless of the date of the student's enrollment. For courses with specific attendance requirements, those requirements are outlined in the course syllabus.

Online Asynchronous Attendance/Participation Definition

Students taking online courses with no specific scheduled meeting times are expected to actively engage throughout each week of the course. Attendance is defined as participating in an academic activity within the online classroom which includes, but is not limited to:

- Engaging in an online discussion
- Submitting an assignment
- Taking an exam
- Participating in online labs
- Initiating contact with faculty member within the learning management system to discuss course content

Note: Logging into the course does not qualify as participation and will not be counted as meeting the attendance requirement.

ETIQUETTE AND BEHAVIOR

Students are expected to actively and positively engage in the adult learning environment. Behaviors that disrupt the classroom environment and interfere with the learning of others are prohibited. Examples of disruptive behavior include talking with other students during a presentation or when others are speaking, texting, gaming, internet browsing, or reading non-course related materials. All cell phones and other electronic communication devices will be turned off at the beginning of class. Tablets and computers are allowed in class for note-taking purposes only unless otherwise directed by the instructor. Should a student's behavior become disruptive to the productivity of the course, they will be asked to leave the classroom and not receive credit for attendance.

In the online environment, students are expected also to be actively and positively engaged in an adult learning environment and consider the complexities of engaging in discussions in an online environment. Disagreeing with each other and engaging in debates about ideas is encouraged to understand each other's ideas and perspectives

better. Such discussions should never involve personal comments, offensive or inappropriate language, or aggressive or passive-aggressive verbiage.

Students who wish to share feedback about the course, program, PLNU, or any administration, faculty, or staff should not do so within course discussions, assignments, or projects. It should meet one-on-one with the professor or program director. A classroom or an online learning environment is not the proper place to discuss feedback about the university or any university representatives.Persons not enrolled in the course are not permitted to be present in class. This policy includes family/friends of students and potential students.

When working with PLNU staff, faculty and administrators, and other students, students are expected to communicate and act respectfully. Any aggression or disrespect to any party may result in up to and including suspension from PLNU. See Academic Behavior Policy in the Graduate and Professional Studies Catalog for definitions of behaviors and further policy information.

ASSIGNMENTS AT-A-GLANCE

The course summary below lists our assignments and their due dates. Click on any assignment to review it.

Additional Syllabus Information

Additional PLNU policies and practices that apply to this course can be found **HERE** ⤴ **(https://docs.google.com/document/d/1kWXiOwPBL5ErYmtZr3xIYH0T-ULM9Bs3kfv-axsWJH8/edit?usp=sharing)**

Course Summary:

Date	Details	Due
Sun Oct 26, 2025	📄 **Course Introduction**	to do: 11:59pm
	📄 **Week 01 Overview**	to do: 11:59pm
Tue Oct 28, 2025	💬 **Chapter 01-03 Questions - Due 24 hours before class** (https://canvas.pointloma.edu/courses/82863/assignments/1209072) ♿	due by 6pm
Wed Oct 29, 2025	🚀 **Academic Honesty Verification Statement** (https://canvas.pointloma.edu/courses/82863/assignments/1209059) ♿	due by 6pm
	📝 **Chapter 01 Exercises** (https://canvas.pointloma.edu/courses/82863/assignments/1209074)	due by 6pm

Date	Details	Due

	🛡️	
	🚀 **Chapter 01 Quiz** (https://canvas.pointloma.edu/courses/82863/assignments/1209053) 🛡️	due by 6pm
	📝 **Chapter 02 Exercises** (https://canvas.pointloma.edu/courses/82863/assignments/1209075) 🛡️	due by 6pm
	🚀 **Chapter 02 Quiz** (https://canvas.pointloma.edu/courses/82863/assignments/1209061) 🛡️	due by 6pm
	📝 **Chapter 03 Exercises** (https://canvas.pointloma.edu/courses/82863/assignments/1209076) 🛡️	due by 6pm
	🚀 **Chapter 03 Quiz** (https://canvas.pointloma.edu/courses/82863/assignments/1209043) 🛡️	due by 6pm
	📝 **Software Installation Verification** (https://canvas.pointloma.edu/courses/82863/assignments/1209098) 🛡️	due by 6pm
	🚀 **Syllabus Quiz** (https://canvas.pointloma.edu/courses/82863/assignments/1209054) ♿	due by 6pm
Sun Nov 2, 2025	📄 **Week 02 Overview**	to do: 11:59pm
Tue Nov 4, 2025	💬 **Chapter 04-06 Questions - Due 24 hours before class** (https://canvas.pointloma.edu/courses/82863/assignments/1209071) 🛡️	due by 6pm
Wed Nov 5, 2025	📝 **Chapter 04 Exercises** (https://canvas.pointloma.edu/courses/82863/assignments/1209077) 🛡️	due by 6pm
	🚀 **Chapter 04 Quiz** (https://canvas.pointloma.edu/courses/82863/assignments/1209062) 🛡️	due by 6pm

Date	Details	Due
	✍ **Chapter 05 Exercises** (https://canvas.pointloma.edu/courses/82863/assignments/1209078) ⬡	due by 6pm
	🚀 **Chapter 05 Quiz** (https://canvas.pointloma.edu/courses/82863/assignments/1209052) ⬡	due by 6pm
	✍ **Chapter 06 Exercises** (https://canvas.pointloma.edu/courses/82863/assignments/1209079) ⬡	due by 6pm
	🚀 **Chapter 06 Quiz** (https://canvas.pointloma.edu/courses/82863/assignments/1209048) ⬡	due by 6pm
	✍ **Lab 01 Assignments** (https://canvas.pointloma.edu/courses/82863/assignments/1209090) ⬡	due by 6pm
Sun Nov 9, 2025	📄 **Week 03 Overview**	to do: 11:59pm
Tue Nov 11, 2025	💬 **Chapter 07-09 Questions - Due 24 hours before class** (https://canvas.pointloma.edu/courses/82863/assignments/1209070) ⬡	due by 6pm
Wed Nov 12, 2025	✍ **Chapter 07 Exercises** (https://canvas.pointloma.edu/courses/82863/assignments/1209080) ⬡	due by 6pm
	🚀 **Chapter 07 Quiz** (https://canvas.pointloma.edu/courses/82863/assignments/1209049) ⬡	due by 6pm
	✍ **Chapter 08 Exercises** (https://canvas.pointloma.edu/courses/82863/assignments/1209081) ⬡	due by 6pm
	🚀 **Chapter 08 Quiz** (https://canvas.pointloma.edu/courses/82863/assignments/1209046) ⬡	due by 6pm

Date	Details	Due
	📝 **Chapter 09 Exercises** (https://canvas.pointloma.edu/courses/82863/assignments/1209082)	due by 6pm
	🚀 **Chapter 09 Quiz** (https://canvas.pointloma.edu/courses/82863/assignments/1209044)	due by 6pm
	📝 **Lab 02 Assignments** (https://canvas.pointloma.edu/courses/82863/assignments/1209091)	due by 6pm
Sun Nov 16, 2025	📄 **Week 04 Overview**	to do: 11:59pm
Tue Nov 18, 2025	💬 **Chapter 10-11 Questions - Due 24 hours before class** (https://canvas.pointloma.edu/courses/82863/assignments/1209069)	due by 6pm
Wed Nov 19, 2025	📝 **Chapter 10 Exercises** (https://canvas.pointloma.edu/courses/82863/assignments/1209083)	due by 6pm
	🚀 **Chapter 10 Quiz** (https://canvas.pointloma.edu/courses/82863/assignments/1209051)	due by 6pm
	📝 **Chapter 11 Exercises** (https://canvas.pointloma.edu/courses/82863/assignments/1209084)	due by 6pm
	🚀 **Chapter 11 Quiz** (https://canvas.pointloma.edu/courses/82863/assignments/1209050)	due by 6pm
	📝 **Lab 03 Assignment** (https://canvas.pointloma.edu/courses/82863/assignments/1209092)	due by 6pm
	🚀 **Mid-Course Survey** (https://canvas.pointloma.edu/courses/82863/assignments/1209047)	due by 6pm

Date	Details	Due
Sun Nov 23, 2025	📄 [Week 05 Overview Thanksgiving](#)	to do: 11:59pm
Fri Nov 28, 2025	💬 [Web Programming Course Insights (Due Friday/Sunday - Not accepted late) (https://canvas.pointloma.edu/courses/82863/assignments/1209066)](https://canvas.pointloma.edu/courses/82863/assignments/1209066) ♿	due by 11:59pm
Sun Nov 30, 2025	💬 [PHP Research Topics - Discussion Post (Not accepted late) (https://canvas.pointloma.edu/courses/82863/assignments/1209073)](https://canvas.pointloma.edu/courses/82863/assignments/1209073) ♿	due by 11:59pm
	📄 [Response Post Reminder](#)	to do: 11:59pm
	📄 [Week 06 Overview](#)	to do: 11:59pm
Tue Dec 2, 2025	💬 [Chapter 12-13 Questions - Due 24 hours before class (https://canvas.pointloma.edu/courses/82863/assignments/1209068)](https://canvas.pointloma.edu/courses/82863/assignments/1209068) ♿	due by 6pm
Wed Dec 3, 2025	📝 [Chapter 12 Exercises (https://canvas.pointloma.edu/courses/82863/assignments/1209085)](https://canvas.pointloma.edu/courses/82863/assignments/1209085) ♿	due by 6pm
	🚀 [Chapter 12 Quiz (https://canvas.pointloma.edu/courses/82863/assignments/1209063)](https://canvas.pointloma.edu/courses/82863/assignments/1209063) ♿	due by 6pm
	📝 [Chapter 13 Exercises (https://canvas.pointloma.edu/courses/82863/assignments/1209086)](https://canvas.pointloma.edu/courses/82863/assignments/1209086) ♿	due by 6pm
	🚀 [Chapter 13 Quiz (https://canvas.pointloma.edu/courses/82863/assignments/1209064)](https://canvas.pointloma.edu/courses/82863/assignments/1209064) ♿	due by 6pm
	📝 [Lab 04 Assignment (https://canvas.pointloma.edu/courses/82863/assignments/1209093)](https://canvas.pointloma.edu/courses/82863/assignments/1209093) ♿	due by 6pm
Sun Dec 7, 2025	📄 [Week 07 Overview](#)	to do: 11:59pm

Date	Details	Due
Tue Dec 9, 2025	💬 **Chapter 14-15 Questions - Due 24 hours before class** (https://canvas.pointloma.edu/courses/82863/assignments/1209067) ⬡	due by 6pm
Wed Dec 10, 2025	📝 **Chapter 14 Exercises** (https://canvas.pointloma.edu/courses/82863/assignments/1209087) ⬡	due by 6pm
	🚀 **Chapter 14 Quiz** (https://canvas.pointloma.edu/courses/82863/assignments/1209057) ⬡	due by 6pm
	📝 **Chapter 15 Exercises** (https://canvas.pointloma.edu/courses/82863/assignments/1209088) ⬡	due by 6pm
	🚀 **Chapter 15 Quiz** (https://canvas.pointloma.edu/courses/82863/assignments/1209055) ⬡	due by 6pm
	📝 **Lab 05 Assignment** (https://canvas.pointloma.edu/courses/82863/assignments/1209094) ⬡	due by 6pm
Sun Dec 14, 2025	📄 **Week 08 Overview**	to do: 11:59pm
Tue Dec 16, 2025	📝 **PHP Research - 24 hours before the last class session** (https://canvas.pointloma.edu/courses/82863/assignments/1209097) ⬡	due by 6pm
Wed Dec 17, 2025	📝 **Lab 06 Assignment** (https://canvas.pointloma.edu/courses/82863/assignments/1209095) ⬡	due by 6pm
	📝 **Official Course Evaluation** (https://canvas.pointloma.edu/courses/82863/assignments/1209096) ⬡	due by 6pm
	🚀 **Final Exam - Closed Book** (https://canvas.pointloma.edu/courses/82863/assignments/1209045) ⬡	due by 7:40pm

Date	Details	Due
	🚀 **Final Exam Programming - Open Book** **(https://canvas.pointloma.edu/courses/82863/assignments/1209058)**	due by 7:40pm
	📝 **Final Exam Adjustment** **(https://canvas.pointloma.edu/courses/82863/assignments/1209089)**	
	🚀 **Final Exam Practice Programming Problems** **(https://canvas.pointloma.edu/courses/82863/assignments/1209056)**	
	🚀 **PHP Programming Practice 1** **(https://canvas.pointloma.edu/courses/82863/assignments/1209065)**	
	🚀 **PHP Programming Practice 2** **(https://canvas.pointloma.edu/courses/82863/assignments/1209060)**	