

Course Syllabus

[Jump to Today](#)

 Edit



Point Loma Nazarene University

School of STEM

CIT 4014 Web Programming

4 Credit Hours

Summer 2026 | Quad 2

Hybrid

Meeting Days: Wednesday Evenings

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

Meeting Location: Miracosta Community College -
Room OC 4803A

Final Exam: (Day/Time): Wednesday, 8/26/2026 8:30
p.m. The use of AI, such as CoPilot, will not be permitted
on the final exam.

Instructor: Professor Ryan Ermert

Email: rermert@pointloma.edu
(<mailto:mleih@pointloma.edu>)

Office Location and Hours: Online any time as needed
by appointment

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

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 web programming languages 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 8 GB of RAM and 50 GB 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 session. We will be using information from the textbook each week as part of in-class assignments.

All supplemental materials posted on this course site (including articles, book excerpts, or other documents) are provided for your personal academic use. These materials may be protected by copyright law and should not be duplicated or distributed without permission of the copyright owner.

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 will be 7 to 10 minutes long 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%

TECHNICAL SUPPORT

Please contact IT Services (ITS) at 619-849-2222 for technical support if your account gets locked out or you need a password reset. If you call after hours (between 6 pm and 11 pm), and the matter is urgent, you may leave a voice mail message and mark the message as urgent. The on-call technician will respond to you within 30 minutes.

ATTENDANCE

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 (counting the first week's activities as four hours if assignments are not submitted).

ACADEMIC ACCOMMODATIONS

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 (<mailto:EAC@pointloma.edu>) or 619-849-2533). 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. Professors are able to view a student's approved accommodations through Accommodate.

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 accommodations.

ARTIFICIAL INTELLIGENCE (AI) POLICY

You are allowed to use Artificial Intelligence (AI) tools (e.g, ChatGPT, Gemini, Claud...) 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 unless explicitly called for in the assignment instructions. If you have any doubts about using AI, please gain permission from the instructor.

SOME TIPS ABOUT CLASS

- Set aside at least 10 - 15 hours each week to complete learning sessions.
- Come to class fully prepared to participate in learning by completing all assigned reading, reading quizzes, online labs, and videos.
- If you have a question, **ASK**.

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 Jul 5, 2026	 Course Introduction	to do: 11:59pm
	 Week 01 Overview	to do: 11:59pm
Fri Jul 10, 2026	 Web Programming Course Welcome (Due Friday/Sunday - Not accepted late) (https://canvas.pointloma.edu/courses/86055/assignments/1327929) 	due by 11:59pm
Sun Jul 12, 2026	 Academic Honesty Verification Statement	due by 6pm

Date	Details	Due
	 (https://canvas.pointloma.edu/courses/86055/assignments/1327926) 	
	 Software Installation Verification - Not accepted late (https://canvas.pointloma.edu/courses/86055/assignments/1327961) 	due by 6pm
	 Syllabus Quiz - Not accepted late (https://canvas.pointloma.edu/courses/86055/assignments/1327911) 	due by 11:59pm
	 Response Post Reminder	to do: 11:59pm
	 Week 02 Overview	to do: 11:59pm
Tue Jul 14, 2026	 Chapter 01-03 Questions - Due 24 hours before class (https://canvas.pointloma.edu/courses/86055/assignments/1327935) 	due by 6pm
Wed Jul 15, 2026	 Chapter 01 Exercises (https://canvas.pointloma.edu/courses/86055/assignments/1327937) 	due by 6pm
	 Chapter 01 Quiz (https://canvas.pointloma.edu/courses/86055/assignments/1327917) 	due by 6pm
	 Chapter 02 Exercises (https://canvas.pointloma.edu/courses/86055/assignments/1327938) 	due by 6pm
	 Chapter 02 Quiz (https://canvas.pointloma.edu/courses/86055/assignments/1327915) 	due by 6pm
	 Chapter 03 Exercises (https://canvas.pointloma.edu/courses/86055/assignments/1327939) 	due by 6pm
	 Chapter 03 Quiz (https://canvas.pointloma.edu/courses/86055/assignments/1327914) 	due by 6pm

Date	Details	Due
Sun Jul 19, 2026	 Week 03 Overview	to do: 11:59pm
Tue Jul 21, 2026	 Chapter 04-06 Questions - Due 24 hours before class (https://canvas.pointloma.edu/courses/86055/assignments/1327934) 	due by 6pm
Wed Jul 22, 2026	 Chapter 04 Exercises (https://canvas.pointloma.edu/courses/86055/assignments/1327940) 	due by 6pm
	 Chapter 04 Quiz (https://canvas.pointloma.edu/courses/86055/assignments/1327906) 	due by 6pm
	 Chapter 05 Exercises (https://canvas.pointloma.edu/courses/86055/assignments/1327941) 	due by 6pm
	 Chapter 05 Quiz (https://canvas.pointloma.edu/courses/86055/assignments/1327918) 	due by 6pm
	 Chapter 06 Exercises (https://canvas.pointloma.edu/courses/86055/assignments/1327942) 	due by 6pm
	 Chapter 06 Quiz (https://canvas.pointloma.edu/courses/86055/assignments/1327916) 	due by 6pm
Sun Jul 26, 2026	 Lab 01 Assignments (https://canvas.pointloma.edu/courses/86055/assignments/1327953) 	due by 6pm
	 Week 04 Overview	to do: 11:59pm
Tue Jul 28, 2026	 Chapter 07-09 Questions - Due 24 hours before class (https://canvas.pointloma.edu/courses/86055/assignments/1327933) 	due by 6pm
Wed Jul 29, 2026	 Chapter 07 Exercises (https://canvas.pointloma.edu/courses/86055/assignments/1327943) 	due by 6pm

Date	Details	Due
		
	 Chapter 07 Quiz (https://canvas.pointloma.edu/courses/86055/assignments/1327907) 	due by 6pm
	 Chapter 08 Exercises (https://canvas.pointloma.edu/courses/86055/assignments/1327944) 	due by 6pm
	 Chapter 08 Quiz (https://canvas.pointloma.edu/courses/86055/assignments/1327923) 	due by 6pm
	 Chapter 09 Exercises (https://canvas.pointloma.edu/courses/86055/assignments/1327945) 	due by 6pm
	 Chapter 09 Quiz (https://canvas.pointloma.edu/courses/86055/assignments/1327922) 	due by 6pm
	 Lab 02 Assignments (https://canvas.pointloma.edu/courses/86055/assignments/1327954) 	due by 6pm
Sun Aug 2, 2026	 Week 05 Overview	to do: 11:59pm
Tue Aug 4, 2026	 Chapter 10-11 Questions - Due 24 hours before class (https://canvas.pointloma.edu/courses/86055/assignments/1327932) 	due by 6pm
Wed Aug 5, 2026	 Chapter 10 Exercises (https://canvas.pointloma.edu/courses/86055/assignments/1327946) 	due by 6pm
	 Chapter 10 Quiz (https://canvas.pointloma.edu/courses/86055/assignments/1327913) 	due by 6pm
	 Chapter 11 Exercises (https://canvas.pointloma.edu/courses/86055/assignments/1327947) 	due by 6pm

Date	Details	Due
	 Chapter 11 Quiz https://canvas.pointloma.edu/courses/86055/assignments/1327908 	due by 6pm
	 Lab 03 Assignment https://canvas.pointloma.edu/courses/86055/assignments/1327955 	due by 6pm
	 Mid-Course Survey https://canvas.pointloma.edu/courses/86055/assignments/1327910 	due by 6pm
Sun Aug 9, 2026	 Week 06 Overview	to do: 11:59pm
Tue Aug 11, 2026	 Chapter 12-13 Questions - Due 24 hours before class https://canvas.pointloma.edu/courses/86055/assignments/1327931 	due by 6pm
	 PHP Research Topics - Discussion Post (Not accepted late) https://canvas.pointloma.edu/courses/86055/assignments/1327936 	due by 6pm
Wed Aug 12, 2026	 Chapter 12 Exercises https://canvas.pointloma.edu/courses/86055/assignments/1327948 	due by 6pm
	 Chapter 12 Quiz https://canvas.pointloma.edu/courses/86055/assignments/1327924 	due by 6pm
	 Chapter 13 Exercises https://canvas.pointloma.edu/courses/86055/assignments/1327949 	due by 6pm
	 Chapter 13 Quiz https://canvas.pointloma.edu/courses/86055/assignments/1327928 	due by 6pm
	 Lab 04 Assignment https://canvas.pointloma.edu/courses/86055/assignments/1327956 	due by 6pm

Date	Details	Due
Sun Aug 16, 2026	 Week 07 Overview	to do: 11:59pm
Tue Aug 18, 2026	 Chapter 14-15 Questions - Due 24 hours before class (https://canvas.pointloma.edu/courses/86055/assignments/1327930) 	due by 6pm
Wed Aug 19, 2026	 Chapter 14 Exercises (https://canvas.pointloma.edu/courses/86055/assignments/1327950) 	due by 6pm
	 Chapter 14 Quiz (https://canvas.pointloma.edu/courses/86055/assignments/1327927) 	due by 6pm
	 Chapter 15 Exercises (https://canvas.pointloma.edu/courses/86055/assignments/1327951) 	due by 6pm
	 Chapter 15 Quiz (https://canvas.pointloma.edu/courses/86055/assignments/1327909) 	due by 6pm
	 Lab 05 Assignment (https://canvas.pointloma.edu/courses/86055/assignments/1327957) 	due by 6pm
Sun Aug 23, 2026	 Week 08 Overview	to do: 11:59pm
Tue Aug 25, 2026	 PHP Research - 24 hours before the last class session (https://canvas.pointloma.edu/courses/86055/assignments/1327960) 	due by 6pm
Wed Aug 26, 2026	 Lab 06 Assignment (https://canvas.pointloma.edu/courses/86055/assignments/1327958) 	due by 6pm
	 Official Course Evaluation (https://canvas.pointloma.edu/courses/86055/assignments/1327959) 	due by 6pm
	 Final Exam - Closed Book (https://canvas.pointloma.edu/courses/86055/assignments/1327925) 	due by 9:40pm

Date	Details	Due
		
	 Final Exam Programming - Open Book https://canvas.pointloma.edu/courses/86055/assignments/1327912	due by 9:40pm
		
	 Final Exam Adjustment https://canvas.pointloma.edu/courses/86055/assignments/1327952	
		
	 Final Exam Practice Programming Problems https://canvas.pointloma.edu/courses/86055/assignments/1327921	
		
	 PHP Programming Practice 1 https://canvas.pointloma.edu/courses/86055/assignments/1327919	
		
	 PHP Programming Practice 2 https://canvas.pointloma.edu/courses/86055/assignments/1327920	
		