

Course Syllabus

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 Edit

Point Loma Nazarene University CIT4062 Topics in Cyber Security Summer 2024 (2 units)

Time and Place: This class is online

Instructor: Maria Zack, Ph.D.

Phone Number: 619. 849.2458

E-mail: mzack@pointloma.edu (<mailto:mzack@pointloma.edu>)

Office Hours: Upon Request

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.

COURSE DESCRIPTION

This course is designed to build on the previous computer science and cyber security classes. The course will focus on applications of cyber security programs and process via case studies and research projects.

Prerequisite(s): **CIT 3014** (https://catalog.pointloma.edu/preview_program.php?catoid=47&poid=3906&returnto=2709#tt4358)_ or equivalent, and **CIT 3024**

(https://catalog.pointloma.edu/preview_program.php?catoid=47&poid=3906&returnto=2709#tt9644)_ or equivalent, and consent of instructor.

PROGRAM LEARNING OUTCOMES

The Point Loma Nazarene University (ADC) graduate is prepared for expanded roles within his or her organization through enhanced abilities to:

1. Identify and evaluate information technology infrastructure necessary to meet an organization's business needs.



2. Develop, plan and evaluate appropriate processes for managing information systems and information technology projects.
3. Design, develop, and evaluate software solutions to meet an organization's business needs.
4. Apply their technical knowledge to solve problems.
5. Speak about their work with precision, clarity and organization (Oral Communication)
6. Write about their work with precision, clarity and organization (Written Communication)
7. Collaborate effectively in teams.
8. Identify, locate, evaluate, and effectively and responsibly use and cite information for the task at hand (Information Literacy).
9. Gather relevant information, examine information and form a conclusion based on that information (Critical Thinking).
10. Understand and create arguments supported by quantitative evidence, and they can clearly communicate those arguments in a variety of formats (Quantitative Reasoning).
11. Understand the professional, ethical, legal, security and social issues and responsibilities with the implementation and use of information technology.
12. Graduates will be prepared for:
 - careers that use information technology in business, industry, government and the non-profit sector; and
 - graduate study in fields related to information technology.

COURSE LEARNING OUTCOMES

The following student learning outcomes will be met in this course:

1. Students will develop a broad knowledge of key challenges and strategies in managing the security of an organizations information infrastructure.
2. Students will develop an outline for their senior capstone project.

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REQUIRED TEXTS AND RECOMMENDED STUDY RESOURCES

There are no required texts for this. The readings are included in the online class.

Point Loma Nazarene University, as a non-profit educational institution, is entitled by law to use materials protected by the US Copyright Act for classroom education. Any use of those materials outside the class may violate the law. 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 CREDIT HOUR INFORMATION

Distribution of Student Learning Hours



It is anticipated that students will spend a minimum of 37.5 participation hours per credit hour on their course work. The time expectations for this course are shown below:

Category	Time Expectation in Hours
Required Reading	27
Discussions	9
Assignments	39
Total Hours	75

STATE AUTHORIZATION

State authorization is a formal determination by a state that Point Loma Nazarene University is approved to conduct activities regulated by that state. In certain states outside California, Point Loma Nazarene University is not authorized to enroll online (distance education) students. If a student moves to another state after admission to the program and/or enrollment in an online course, continuation within the program and/or course will depend on whether Point Loma Nazarene University is authorized to offer distance education courses in that state. It is the student's responsibility to notify the institution of any change in his or her physical location. Refer to the map on [State Authorization \(https://www.pointloma.edu/offices/office-institutional-effectiveness-research/disclosures\)](https://www.pointloma.edu/offices/office-institutional-effectiveness-research/disclosures) to view which states allow online (distance education) outside of California.

ASSESSMENT AND GRADING

Your work will be described each week in the weekly Module. Most weeks you will have a warm-up exercise, reading, an assignment and a discussion. A few weeks in the semester you will have specific assignments that are the building blocks for creating an outline for your senior capstone project (to be completed in CIT4081). The grade weights are as follows:

Warm Up Exercises	15%
Activities Based on Reading	45%
Discussions	10%



Final Project Work	30%
Surveys	0%
Total	100%

The grading scale for the course is based on the percentage of points available:

A	92 - 100%	C	72 - 76.9%
A-	90 - 91.9%	C-	70 - 71.9%
B+	87 - 89.9%	D+	67 - 69.9%
B	82 - 86.9%	D	62 - 66.9%
B-	80 - 81.9%	D-	60 - 61.9%
C+	77 - 79.9%	F	0 - 59.9%

Students must complete the required program hours in the major (program) from Point Loma Nazarene University with a minimum grade of “C” in each course and an overall 2.00 grade point average.

LATE ASSIGNMENTS

All assignments are to be submitted by the due dates. There will be a 10% reduction of possible points for **each day** an assignment is late and assignments will **not be** accepted for credit four days after the due date. If missing assignments result in the failure to meet learning outcomes, students may receive a letter grade reduction on the final grade in addition to the loss of points for missing work. Assignments will be considered late if posted after the due date and time using Pacific Standard Time. No assignments will be accepted after midnight on Sunday night, the last day of class.

Exceptions for extenuating circumstances must be pre-approved by the instructor and the program director.

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INCOMPLETES AND LATE ASSIGNMENTS

All assignments are to be submitted/turned in by the beginning of the class session when they are due—including assignments posted in Canvas. Incompletes will only be assigned in extremely unusual circumstances.

CLASS ENROLLMENT

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.

PLNU COPYRIGHT POLICY

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PLNU ACADEMIC HONESTY POLICY

Students should demonstrate academic honesty by doing original work and by giving appropriate credit to the ideas of others. Academic dishonesty is the act of presenting information, ideas, and/or concepts as one's own when in reality they are the results of another person's creativity and effort. A faculty member who believes a situation involving academic dishonesty has been detected may assign a failing grade for that assignment or examination, or, depending on the seriousness of the offense, for the course. Faculty should follow and students may appeal using the procedure in the university Catalog. See **ADC Academic and General Policies** (https://catalog.pointloma.edu/content.php?catoid=48&navoid=2757#Academic_Honesty) for definitions of kinds of academic dishonesty and for further policy information.

During the first week of class, you will be asked to submit an Academic Honesty Verification Statement. Submitting the statement is a requirement of this course. By submitting the Academic Honesty Verification Statement, you will be verifying all assignments completed in this course were completed by you. Carefully review the Academic Honesty Statement below.



Statement: “In submitting this form, I am verifying all the assignments in this course will be completed by me and will be my own work.”

PLNU ACADEMIC ACCOMMODATIONS POLICY

PLNU is committed to providing equal opportunity for participation in all its programs, services, and activities. 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 issue an academic accommodation plan (“AP”) to all faculty who teach courses in which the student is enrolled each semester.

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 and/or if they do not wish to utilize some or all of the elements of their AP in that course.

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 assure appropriate accommodations can be provided. It is the student’s responsibility to make the first contact with the EAC.

PLNU SPIRITUAL CARE

Please be aware PLNU strives to be a place where you grow as whole persons. To this end, we provide resources for our students to encounter God and grow in their Christian faith. If students have questions, a desire to meet with the chaplain or have prayer requests you can contact the **Office of Spiritual Development** ([_ \(https://www.pointloma.edu/offices/spiritual-development\)](https://www.pointloma.edu/offices/spiritual-development))

PLNU ATTENDANCE AND PARTICIPATION POLICY

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** ([_ \(https://catalog.pointloma.edu/content.php?catoid=46&navoid=2650#Class_Attendance\)](https://catalog.pointloma.edu/content.php?catoid=46&navoid=2650#Class_Attendance)) in the Undergraduate Academic Catalog. If absences exceed these limits but are due to university excused health issues, an exception will be granted.

PLNU USE OF TECHNOLOGY

In order to be successful in the online environment, students need to meet the minimum technology and system requirements; please refer to the **Technology and System Requirements** ([_ \(https://help.pointloma.edu/TDClient/1808/Portal/KB/ArticleDet?ID=108349\)](https://help.pointloma.edu/TDClient/1808/Portal/KB/ArticleDet?ID=108349)) information. If a student



need of technological resources please contact student-tech-request@pointloma.edu (<mailto:student-tech-request@pointloma.edu>)

Problems with technology do not relieve students of the responsibility of participating, turning in assignments, or completing class work.

COURSE SCHEDULE AND ASSIGNMENTS

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




Quick Links













[Week 1 \(https://canvas.pointloma.edu/courses/75469/pages/week-1-overview\)](https://canvas.pointloma.edu/courses/75469/pages/week-1-overview) | [Week 2 \(https://canvas.pointloma.edu/courses/75469/pages/week-2-overview\)](https://canvas.pointloma.edu/courses/75469/pages/week-2-overview) | [Week 3 \(https://canvas.pointloma.edu/courses/75469/pages/week-3-overview\)](https://canvas.pointloma.edu/courses/75469/pages/week-3-overview) | [Week 4 \(https://canvas.pointloma.edu/courses/75469/pages/week-4-overview\)](https://canvas.pointloma.edu/courses/75469/pages/week-4-overview) | [Week 5 \(https://canvas.pointloma.edu/courses/75469/pages/week-5-overview\)](https://canvas.pointloma.edu/courses/75469/pages/week-5-overview) | [Week 6 \(https://canvas.pointloma.edu/courses/75469/pages/week-6-overview\)](https://canvas.pointloma.edu/courses/75469/pages/week-6-overview) | [Week 7 \(https://canvas.pointloma.edu/courses/75469/pages/week-7-overview\)](https://canvas.pointloma.edu/courses/75469/pages/week-7-overview)

[Week 8 \(https://canvas.pointloma.edu/courses/75469/pages/week-8-overview\)](https://canvas.pointloma.edu/courses/75469/pages/week-8-overview) | [Week 9 \(https://canvas.pointloma.edu/courses/75469/pages/week-9-overview\)](https://canvas.pointloma.edu/courses/75469/pages/week-9-overview) | [Week 10 \(https://canvas.pointloma.edu/courses/75469/pages/week-10-overview\)](https://canvas.pointloma.edu/courses/75469/pages/week-10-overview) | [Week 11 \(https://canvas.pointloma.edu/courses/75469/pages/week-11-overview\)](https://canvas.pointloma.edu/courses/75469/pages/week-11-overview) | [Week 12 \(https://canvas.pointloma.edu/courses/75469/pages/week-12-overview\)](https://canvas.pointloma.edu/courses/75469/pages/week-12-overview) | [Week 13 \(https://canvas.pointloma.edu/courses/75469/pages/week-13-overview\)](https://canvas.pointloma.edu/courses/75469/pages/week-13-overview) | [Week 14 \(https://canvas.pointloma.edu/courses/75469/pages/week-14-overview\)](https://canvas.pointloma.edu/courses/75469/pages/week-14-overview)















[Netiquette Guidelines \(https://canvas.pointloma.edu/courses/75469/pages/netiquette-guidelines\)](https://canvas.pointloma.edu/courses/75469/pages/netiquette-guidelines) | [Help Resources & Technical Support \(https://canvas.pointloma.edu/courses/75469/pages/help-resources-and-technical-support\)](https://canvas.pointloma.edu/courses/75469/pages/help-resources-and-technical-support) | [Technology & System Requirements \(https://canvas.pointloma.edu/courses/75469/pages/technology-and-system-requirements\)](https://canvas.pointloma.edu/courses/75469/pages/technology-and-system-requirements) | [Canvas Guides !\[\]\(642aa997563f9a325b310230bb5078b7_img.jpg\) \(https://community.canvaslms.com/docs/DOC-10701-canvas-student-guide-table-of-contents\)](https://community.canvaslms.com/docs/DOC-10701-canvas-student-guide-table-of-contents)













Course Summary:

Date	Details	Due
Tue May 7, 2024	 Academic Honesty Verification Statement (https://canvas.pointloma.edu/courses/75469/assignments/1040854)	due by 11:59pm
	 State Authorization Verification Form	due by  n














Date	Details	Due
	(https://canvas.pointloma.edu/courses/75469/assignments/1040853)	
	 Class Overview - PLEASE READ THIS	to do: 11:59pm
Wed May 8, 2024	 Week 1: Warm Up Exercise (https://canvas.pointloma.edu/courses/75469/assignments/1040878)	due by 11:59pm
Sun May 12, 2024	 Week 1: Assignment Based on Reading (https://canvas.pointloma.edu/courses/75469/assignments/1040877)	due by 11:59pm
Mon May 13, 2024	 Week 1: Discussion (https://canvas.pointloma.edu/courses/75469/assignments/1040855)	due by 11:59pm
Wed May 15, 2024	 Week 2: Warm Up Exercise (https://canvas.pointloma.edu/courses/75469/assignments/1040880)	due by 11:59pm
	 Week 1: Discussion Response Reminder	to do: 11:59pm
Sun May 19, 2024	 Week 2: Assignment Based on Reading (https://canvas.pointloma.edu/courses/75469/assignments/1040879)	due by 11:59pm
Mon May 20, 2024	 Week 2: Discussion (https://canvas.pointloma.edu/courses/75469/assignments/1040856)	due by 11:59pm
Wed May 22, 2024	 Week 3: Warm Up Exercises (https://canvas.pointloma.edu/courses/75469/assignments/1040882)	due by 11:59pm
	 Week 2: Discussion Response Reminder	to do: 11:59pm
Sun May 26, 2024	 Week 3: Assignment Based on Reading (https://canvas.pointloma.edu/courses/75469/assignments/1040881)	due by 11:59pm
Mon May 27, 2024	 Week 3: Discussion (https://canvas.pointloma.edu/courses/75469/assignments/1040857)	due by 11:59pm








Date	Details	Due
Wed May 29, 2024	 <u>Week 4: Warm Up Exercises</u> https://canvas.pointloma.edu/courses/75469/assignments/1040885	due by 11:59pm
	 <u>Week 3: Discussion Response</u> <u>Reminder</u>	to do: 11:59pm
Sun Jun 2, 2024	 <u>Week 4: Assignment Based on Reading</u> https://canvas.pointloma.edu/courses/75469/assignments/1040883	due by 11:59pm
	 <u>Week 4: PAPER - Possible Research Topics</u> https://canvas.pointloma.edu/courses/75469/assignments/1040884	due by 11:59pm
Mon Jun 3, 2024	 <u>Week 4: Discussion</u> https://canvas.pointloma.edu/courses/75469/assignments/1040858	due by 11:59pm
Wed Jun 5, 2024	 <u>Week 5: Warm Up Exercises</u> https://canvas.pointloma.edu/courses/75469/assignments/1040887	due by 11:59pm
	 <u>Week 4: Discussion Response</u> <u>Reminder</u>	to do: 11:59pm
Sun Jun 9, 2024	 <u>Week 5: Assignment Based on Reading</u> https://canvas.pointloma.edu/courses/75469/assignments/1040886	due by 11:59pm
Mon Jun 10, 2024	 <u>Week 5: Discussion</u> https://canvas.pointloma.edu/courses/75469/assignments/1040859	due by 11:59pm
Wed Jun 12, 2024	 <u>Week 6: Warm Up Exercises</u> https://canvas.pointloma.edu/courses/75469/assignments/1040889	due by 11:59pm
	 <u>Week 5: Discussion Response</u> <u>Reminder</u>	to do: 11:59pm
Sun Jun 16, 2024	 <u>Week 6: Assignment Based on Reading</u> https://canvas.pointloma.edu/courses/75469/assignments/1040888	due by 11:59pm
Mon Jun 17, 2024	 <u>Week 6: Discussion</u>	due by 

Date	Details	Due
	(https://canvas.pointloma.edu/courses/75469/assignments/1040860)	
Wed Jun 19, 2024	 Week 7: Warm Up Exercises (https://canvas.pointloma.edu/courses/75469/assignments/1040891)	due by 11:59pm
	 Week 6: Discussion Response Reminder	to do: 11:59pm
Sun Jun 23, 2024	 Week 7: Assignment Based on Reading (https://canvas.pointloma.edu/courses/75469/assignments/1040890)	due by 11:59pm
Mon Jun 24, 2024	 Week 7: Discussion (https://canvas.pointloma.edu/courses/75469/assignments/1040861)	due by 11:59pm
Wed Jun 26, 2024	 Week 8: Warm Up Exercises (https://canvas.pointloma.edu/courses/75469/assignments/1040893)	due by 11:59pm
	 Week 7: Discussion Response Reminder	to do: 11:59pm
Sun Jun 30, 2024	 Mid-Course Survey (https://canvas.pointloma.edu/courses/75469/assignments/1040852)	due by 11:59pm
	 Week 8: PAPER - Assignment for Research Preparation (https://canvas.pointloma.edu/courses/75469/assignments/1040892)	due by 11:59pm
Wed Jul 10, 2024	 Week 9: Warm Up Exercises (https://canvas.pointloma.edu/courses/75469/assignments/1040895)	due by 11:59pm
Sun Jul 14, 2024	 Week 9: Assignment Based on Reading (https://canvas.pointloma.edu/courses/75469/assignments/1040894)	due by 11:59pm
Mon Jul 15, 2024	 Week 9: Discussion (https://canvas.pointloma.edu/courses/75469/assignments/1040862)	due by 11:59pm
Wed Jul 17, 2024	 Week 10: Warm Up Exercises (https://canvas.pointloma.edu/courses/75469/assignments/1040869)	due by 11:59pm



Date	Details	Due
	 <u>Week 9: Discussion Response Reminder</u>	to do: 11:59pm
Sun Jul 21, 2024	 <u>Week 10: Assignment Based on Reading</u> https://canvas.pointloma.edu/courses/75469/assignments/1040868	due by 11:59pm
Mon Jul 22, 2024	 <u>Week 10: Discussion</u> https://canvas.pointloma.edu/courses/75469/assignments/1040863	due by 11:59pm
Wed Jul 24, 2024	 <u>Week 11: Warm Up Exercises</u> https://canvas.pointloma.edu/courses/75469/assignments/1040871	due by 11:59pm
	 <u>Week 10: Discussion Response Reminder</u>	to do: 11:59pm
Sun Jul 28, 2024	 <u>Week 11: Assignment Based on Reading</u> https://canvas.pointloma.edu/courses/75469/assignments/1040870	due by 11:59pm
Mon Jul 29, 2024	 <u>Week 11: Discussion</u> https://canvas.pointloma.edu/courses/75469/assignments/1040864	due by 11:59pm
Wed Jul 31, 2024	 <u>Week 12: Warm Up Exercises</u> https://canvas.pointloma.edu/courses/75469/assignments/1040873	due by 11:59pm
	 <u>Week 11: Discussion Response Reminder</u>	to do: 11:59pm
Sun Aug 4, 2024	 <u>Week 12: Assignment Based on Reading</u> https://canvas.pointloma.edu/courses/75469/assignments/1040872	due by 11:59pm
Mon Aug 5, 2024	 <u>Week 12: Discussion</u> https://canvas.pointloma.edu/courses/75469/assignments/1040865	due by 11:59pm
Wed Aug 7, 2024	 <u>Week 13: Warm Up Exercises</u> https://canvas.pointloma.edu/courses/75469/assignments/1040875	due by 11:59pm
	 <u>Week 12: Discussion Response Reminder</u>	to do: 11:59pm



Date	Details	Due
Sun Aug 11, 2024	 <u>Week 13: Assignment Based on Reading</u> (https://canvas.pointloma.edu/courses/75469/assignments/1040874)	due by 11:59pm
Mon Aug 12, 2024	 <u>Week 13: Discussion</u> (https://canvas.pointloma.edu/courses/75469/assignments/1040866)	due by 11:59pm
Wed Aug 14, 2024	 <u>Week 13: Discussion Response Reminder</u>	to do: 11:59pm
Sat Aug 24, 2024	 <u>Week 14: PAPER Outline Assignment</u> (https://canvas.pointloma.edu/courses/75469/assignments/1040876)	due by 11:59pm
Sun Aug 25, 2024	 <u>End-of-Course Evaluation</u> (https://canvas.pointloma.edu/courses/75469/assignments/1040867)	due by 11:59pm

