

Course Syllabus

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School of STEM

Computer Information Technology

CIT 3054 Database Design

Summer 2026 - Hybrid (4 Credit Hours)

Time and Place	Thursday Evenings 6:00 pm – 10:00 pm Grossmont College, Room 36-123
Final Exam	August 27, 2025 - 8:30 pm 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. Sam Ovando
Office	On-line

Email	sovando@pointloma.edu https://canvas.pointloma.edu/http://%3Ca%20href=%22mailto:sovando@pointloma.edu%22%3Esovando
Availability	EMAIL: The best way to reach me is to email me at my PLNU email address. I will be monitoring it re soon as possible. CLASS: You can alternatively talk with me at breaks during class. HELP SESSION: You can sign up for 15-minute HELP sessions at the following link: • 15 Minute Help Session Sign-Up ➞ _ (https://calendar.app.google/kc6G9Jro9W8kjfQK8)

Text: (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).

Database Systems – Design, Implementation and Management 13e

Carlos Coronel and Steven Morris

ISBN: 978-1-337-62790-0

Needed Supplies:

Consistent and regular access to a computer running either Windows or MacOS (preferably running Windows) with at least 8 GB of RAM and 25 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 start in class assignments. You should have your textbook available during each class session. We will be using information from the textbook each week as part of in-class assignments. Students must also have MS Word and the required course software installed. Installation of MS Access is recommended.

Student must have the required database software installed and working on their computer to complete weekly assignments.

Catalog Description:

This course is designed to provide an in-depth, hands-on introduction to designing and implementing databases that use relational technologies with a significant market presence. Hands-on assignments using an industry-standard DBMS, such as MS SQL, MySQL, or Oracle Server, will receive significant coverage in the course. SQL and various vendor extensions to the language will be covered. In addition, some advanced topics such as stored procedures and triggers will be covered.

Course Learning Outcomes:

1. Students will be able to explain the importance of database design.
2. Students will be able to explain the main components of database systems.

3. Students will be able to explain data modeling and why data models are important.
4. Students will be able to explain relational model components and how tables relate within the database.
5. Students will be able to create ER Diagrams and define the components within ER Diagrams.
6. Students will be able to define the characteristics of good primary keys and foreign keys within a relational table.
7. Students will be able to write basic and advanced SQL statements to create tables, insert table records, select database information, and delete table records and tables.
8. Students will be able to create database triggers and stored procedures.
9. Students will be able to create a sound database design using the SDLC.
10. Students will be able to explain database locking rules and concurrency control systems.
11. Students will be able to explain data warehousing and OLAP concepts.
12. Students will be able to explain concepts about big data analytics and NoSQL.

Program Learning Outcomes:

Graduates will have a coherent and broad-based knowledge of the discipline of Computer Information Technology.

1. Students will be able to identify and evaluate information technology infrastructure necessary to meet an organization's business needs.
2. Students will be able to develop, plan, and evaluate appropriate processes for managing information systems and information technology projects.
3. Students will be able to design, develop, and evaluate software solutions to meet an organization's business needs.
4. Students will be able to apply their technical knowledge to solve problems.
5. Students will be able to speak about their work with precision, clarity, and organization (Oral Communication).
6. Students will be able to write about their work with precision, clarity, and organization (Written Communication).
7. Students will collaborate effectively in teams.
8. Students will be able to identify, locate, evaluate, and effectively and responsibly use and cite information for the task at hand (Information Literacy).
9. Students will be able to gather relevant information, examine information, and form a conclusion based on that information (Critical Thinking).
10. Students will be able to understand and create arguments supported by quantitative evidence, and they can clearly communicate those arguments in a variety of formats (Quantitative Reasoning).
11. Students will understand the professional, ethical, legal, security, and social issues and responsibilities with the implementation and use of information technology.
12. Computer Information Technology graduates will be adequately prepared for entry into graduate school or jobs in the computing profession.

Program Learning Outcomes Assessed in this Course:

Outcome: Students will be able to understand and create arguments supported by quantitative evidence, and they can clearly communicate those arguments in a variety of formats (Quantitative Reasoning).

Assessment Tool: Selected Questions From Final Exam

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 Practice 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 will be available a week before they are due. Each quiz will have 10 questions, and students will have 8 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 prior to 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 are able to take the quiz as many times as they would like before the quiz's due date and time. Quizzes may be taken as often as desired, and the highest score will be used.

Weekly Assignments: Each week, students will be assigned a series in class activities and problems to begin during class time and then be completed before the next class sessions. Activities and assignments will be based on in-class discussions and various problem-solving tasks to reinforce the learnings covered in the weekly readings.

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 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.

E-mail and Messages:

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

Activity Point Distribution:

Activity	Points	Percent
Weekly Questions	35	4%
Reading Quizzes	230	25%
Weekly Assignments	440	47%
Final Exam	225	24%
Total	930	100%

Grading Scale:

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%

Credit Hour Information: Distribution of Student Learning Hours

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 7 weeks. 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:

Activity	Hours
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Reading and Online Quizzes	49
In-Class Discussion and Activities	28
Weekly Assignments	68
Exams Preparation	5
TOTAL	150

Late Homework/Classwork:

Reading Quizzes are not accepted late. If you fail to take the reading quiz before the due date/time, you will receive a zero 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.

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.

University 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 becomes an expression of faith. Being of Wesleyan heritage, we aspire 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.

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 This 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	 Week 01: Overview - Online Week	to do: 11:59pm
Fri Jul 10, 2026	 Database Design Course Online Discussion - Not accepted late (https://canvas.pointloma.edu/courses/86087/assignments/1324959) 	due by 11:59pm
Sun Jul 12, 2026	 Academic Honesty Verification Statement (https://canvas.pointloma.edu/courses/86087/assignments/1324946) 	due by 11:59pm
	 Software Installation Verification - Assignment not accepted late (https://canvas.pointloma.edu/courses/86087/assignments/1324977) 	due by 11:59pm
	 Syllabus Quiz - Not accepted late (https://canvas.pointloma.edu/courses/86087/assignments/1324956) 	due by 11:59pm

Date	Details	Due
	 Install and Test Course Software	to do: 11:59pm
	 Response Post Reminder	to do: 11:59pm
	 Week 02: Overview	to do: 11:59pm
Wed Jul 15, 2026	 Ch01-Ch02 Questions - Due 24 hours before class (https://canvas.pointloma.edu/courses/86087/assignments/1324960) 	due by 6pm
Thu Jul 16, 2026	 CIT3054-22 SU25 - Database Design (https://canvas.pointloma.edu/calendar?event_id=186437&include_contexts=course_86087) 	6pm to 10pm
	 Chapter 01 Quiz (https://canvas.pointloma.edu/courses/86087/assignments/1324948) 	due by 6pm
	 Chapter 02 Quiz (https://canvas.pointloma.edu/courses/86087/assignments/1324954) 	due by 6pm
Sun Jul 19, 2026	 Week 03: Overview	to do: 11:59pm
Wed Jul 22, 2026	 Ch03-Ch04 Questions - Due 24 hours before class (https://canvas.pointloma.edu/courses/86087/assignments/1324961) 	due by 6pm
Thu Jul 23, 2026	 Ch01-Ch02 Activities and Homework (https://canvas.pointloma.edu/courses/86087/assignments/1324967) 	due by 6pm
	 Chapter 03 Quiz (https://canvas.pointloma.edu/courses/86087/assignments/1324944) 	due by 6pm
	 Chapter 04 Quiz (https://canvas.pointloma.edu/courses/86087/assignments/1324952) 	due by 6pm

Date	Details	Due
Sun Jul 26, 2026	 Week 04: Overview	to do: 11:59pm
Wed Jul 29, 2026	 Ch05-Ch06 Questions - Due 24 hours before class (https://canvas.pointloma.edu/courses/86087/assignments/1324962) 	due by 6pm
Thu Jul 30, 2026	 Ch03-Ch04 Activities and Homework (https://canvas.pointloma.edu/courses/86087/assignments/1324968) 	due by 6pm
	 Chapter 05-06 Quiz (https://canvas.pointloma.edu/courses/86087/assignments/1324951) 	due by 6pm
Sun Aug 9, 2026	 Week 05: Overview	to do: 11:59pm
Mon Aug 10, 2026	 CIT3054-22 SU25 - Database Design (https://canvas.pointloma.edu/calendar?event_id=186436&include_contexts=course_86087)	5:30pm to 6pm
Wed Aug 12, 2026	 Ch07 Questions - Due 24 hours before class (https://canvas.pointloma.edu/courses/86087/assignments/1324963) 	due by 6pm
	 Ch05-Ch06 Activities and Homework (https://canvas.pointloma.edu/courses/86087/assignments/1324969) 	due by 6pm
Thu Aug 13, 2026	 Chapter 07 Quiz (https://canvas.pointloma.edu/courses/86087/assignments/1324949) 	due by 6pm
	 Mid-Course Survey (https://canvas.pointloma.edu/courses/86087/assignments/1324947) 	due by 11:59pm
Sun Aug 16, 2026	 Week 06: Overview	to do: 11:59pm
	 Week 07: Overview	to do: 11:59pm

Date	Details	Due
Wed Aug 19, 2026	 Ch08 Questions - Due 24 hours before class https://canvas.pointloma.edu/courses/86087/assignments/1324964 	due by 6pm
	 Ch10-Ch13 Questions - Due 24 hours before class https://canvas.pointloma.edu/courses/86087/assignments/1324965 	due by 6pm
Thu Aug 20, 2026	 Ch07 Activities and Homework https://canvas.pointloma.edu/courses/86087/assignments/1324970 	due by 6pm
	 Chapter 08 Quiz https://canvas.pointloma.edu/courses/86087/assignments/1324955 	due by 6pm
	 Chapter 10 Quiz https://canvas.pointloma.edu/courses/86087/assignments/1324945 	due by 6pm
Sun Aug 23, 2026	 Chapter 13 Quiz https://canvas.pointloma.edu/courses/86087/assignments/1324943 	due by 6pm
	 Week 08: Overview	to do: 11:59pm
Wed Aug 26, 2026	 Ch14 Questions - Due 24 hours before class https://canvas.pointloma.edu/courses/86087/assignments/1324966 	due by 6pm
Thu Aug 27, 2026	 Ch08 Activities and Homework https://canvas.pointloma.edu/courses/86087/assignments/1324971 	due by 6pm
	 Ch10-Ch13 Activities and Homework https://canvas.pointloma.edu/courses/86087/assignments/1324972 	due by 6pm

Date	Details	Due
	 Chapter 10 - Locking Lab https://canvas.pointloma.edu/courses/86087/assignments/1324974 	due by 6pm
	 Chapter 14 Quiz https://canvas.pointloma.edu/courses/86087/assignments/1324957 	due by 6pm
	 Final Exam Part 2 Practice https://canvas.pointloma.edu/courses/86087/assignments/1324953 	due by 6pm
	 Official Course Evaluation https://canvas.pointloma.edu/courses/86087/assignments/1324976 	due by 6pm
	 Text Book Return https://canvas.pointloma.edu/courses/86087/assignments/1324978 	due by 6pm
	 Ch14 Activities https://canvas.pointloma.edu/courses/86087/assignments/1324973 	due by 9pm
	 Final Exam Part 1.2 - Closed Book https://canvas.pointloma.edu/courses/86087/assignments/1324950 	due by 10pm
	 Final Exam Part 2.2 - Open Book https://canvas.pointloma.edu/courses/86087/assignments/1324958 	due by 10pm
	 Final Exam Curve https://canvas.pointloma.edu/courses/86087/assignments/1324975 	
	 SQL Quiz 1 - Checking our Understanding https://canvas.pointloma.edu/courses/86087/assignments/1328367 	
	 SQL Quiz 2 - Checking our Understanding	

Date	Details	Due
	https://canvas.pointloma.edu/courses/86087/assignments/1328369 	
	 SQL Quiz 3 - Checking our Understanding https://canvas.pointloma.edu/courses/86087/assignments/1328371 	
	 SQL Quiz 4 - Checking our Understanding https://canvas.pointloma.edu/courses/86087/assignments/1328373 	
	 SQL Quiz 4 - Checking our Understanding https://canvas.pointloma.edu/courses/86087/assignments/1353396 	