

# CS 367 Database & Web Programming Syllabus, Spring 2022

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**Course website:** <http://cs.plu.edu/367>  
**Student Hours:** <https://www.cs.plu.edu/~blahakd/schedule.pdf>  
**Covid-19 Info:** <https://www.plu.edu/coronavirus/>

## **Textbook**

*Fundamentals of Database Systems*, 7th Edition, Elmasri / Navathe  
Pearson, ©2016. ISBN: 0133970779 and 9780133970777

## **Prerequisites**

The official prerequisite for this course is successful completion (C or better) of, or concurrent enrollment in, CS 270. The programming in this course will be mainly in a language called SQL (Structured Query Language) which we will learn throughout the term, and there will be programming in Java, HTML, and JSP.

## **Tools**

To use the classroom and lab computers you will need a CSCI account. If you do not have an account from last term, you can request one online at <https://www.cs.plu.edu/hub>. (Note, even if you have an account, you may need to renew it! Check your email.) We will also be working with, MariaDB (MySQL), Dia, Eclipse for Enterprise Java (Java EE), and Squirrel SQL. You may wish to install Dia, Eclipse Enterprise Java, and Squirrel SQL on your personal computer (see the course home page for links).

## **Health Directives and Mask Policy**

All students and campus employees must follow university health directives. If those directives change during the term, I will be sure to share them with the class so we can discuss what the changes mean for our course. As we begin the term, university health directives are straightforward: all campus community members are required to wear face masks in all indoor spaces, regardless of their vaccination status. The requirement applies indoors when other people are present and in all public and common areas, including classrooms, dining areas (except when you are actively eating or drinking), meeting rooms, elevators, and shared vehicles. In crowded outdoor locations where physical distancing is not possible, masks are recommended for fully vaccinated people and required for those not currently vaccinated.

## Course Content

This course is an introduction to the fundamental concepts, techniques, and skills needed to design, create, manage, and maintain a database using a modern DBMS (Database Management System). We focus on the technical details of data modeling and implementation. Specific topics include:

- The entity-relationship model
- The relational model
- SQL
- Database connectivity (JDBC)
- Database-web interaction using JSP and HTML

## CS Outcomes

- An ability to apply mathematics to solving computing problems.
- An ability to critically analyze a problem and to design, implement, and evaluate a computing solution that meets requirements.
- An ability to work effectively in small groups on medium scale computing projects.
- An ability to effectively communicate technical concepts in oral and written form.
- An ability to understand the social and ethical implications of working as a professional in the field of computer science.
- An ability to use current tools and methodologies in computing practice.

The class will include a major group project to be completed throughout the term. You will design and implement a medium scale database along with a web "front-end" for end user access to the database.

## Grading

Your grade will be determined by the following weighted average.	
<b>Quizzes 4-5</b>	25%
<b>Midterm</b>	15%
<b>Team Project</b>	20%
<b>Homework</b>	15%
<b>In-class exercises</b>	5%
<b>Final exam</b>	20%

This grading scale is a general guideline only. I may adjust your grade depending on various factors.	
A / A-	100 - 90%
B+ / B / B-	89 - 80%
C+ / C / C-	79 - 70%
D+ / D / D-	69 - 60%
E	below 60%

## Late Policy

Missed in-class exercises and test, without an excused absence, will not be accepted. If you know you cannot make it to lecture, **please contact me in advance**. All work should be turned in by the due date and time. However, sometimes circumstances (e.g., technical issues, deadline in another class) may prevent you from turning in work on time. With that in mind, you are granted 3 "late days". A day in this context is a 24-hour period after the due date/time. Your "late days" can be used for any reason on homework or project (everyone in the group must agree) assignment. To use a late day, just email me **before the assignment is due**. I will track your late

days on Sakai. In the event of more serious circumstances (e.g., illness, family emergency) contact me to arrange to complete missed coursework.

### **Academic Honesty**

Academic integrity as stated in the student handbook will be strictly adhered to. Cheating, plagiarism, and unauthorized collaboration are considered academic dishonesty. **Academic dishonesty can result in the earning of a zero on an assignment/exam, the failure of the course, or expulsion from the university.** Please refer to the PLU Student Handbook <https://www.plu.edu/student-code-of-conduct/student-code-of-conduct-policies/academic-integrity/> for specific information regarding PLU Academic Integrity Policy. Any violation of the university's academic integrity policy will be reported to the Campus Life Committee and an Academic Dishonesty Report Form will be submitted.

I encourage students to help each other as discussing material with others is a great way to learn. **However, you are expected to turn in your own original work, and clearly cite all resources including other students. Unless stated otherwise all assignments are individual assignments** and must be done by the individual turning in the assignment.

**Protect your own work.** If you store your files on a public server, make sure the permissions are set so that only you can read them. Ask your professor if you don't know how to do this. **Never give printed or electronic copies of your source files or homework solutions to other students.**

### **Getting Help**

Our mission is to challenge you to learn while providing resources to help you succeed. If you are struggling with your coursework, there are a wide variety of ways for you to seek help.

- **Student Hours** (a.k.a., Office Hours): This time is set aside for you. You are not “bugging” or interrupting me when you pop in or set up a time to meet with me. Rather, you are making good use of a resource! Feel free to use this time as you need — ask me a question, review notes, brainstorm ideas, consider future plans, etc. I’m also happy to meet in small groups.
- **The academic assistance center (AAC):** The AAC is a valuable resource, and you can get individual help from peer tutors who have taken the class in the past. They also have a variety of other resources available. For details go to <http://www.plu.edu/aac/>, or call (x7518).
- **Peer tutors:** A tutor will hold regular hours in the computer lab when you can drop by for assistance. The hours will be announced in class and will be posted on the class web site.
- **Center for Student Success (CSS):** The CSS is a campus-wide network of units dedicated to helping you succeed at PLU. They provide individualized academic and personal support and resources through a collaborative, student-centered approach. By visiting the CSS, you can access Academic Advising, Tutoring & Assignments, Career & Vocational Planning, Financial Services, Personal Health & Wellness, and the Office of Accessibility and Accommodations as well as learn about resources for affinity groups such as students of color, LGBTQ students, international students, veteran & military students, and transfer students, among other groups. The main hub of the CSS is located

on the first floor of the Mortvedt Library building; additional partner offices can be located using the CSS services map. Advisors are available in person or via gchat or Zoom. If you are unsure or would like help navigating the resources, you can contact the CSS directly at [success@plu.edu](mailto:success@plu.edu) and 253-535-7459 or visit their website <https://www.plu.edu/student-success/>.

## **Conduct**

As members of the PLU community, it is all of our responsibility to provide a safe, inclusive classroom environment that is considerate of others, encourages exploration of ideas and allows opportunities for everyone to fully engage in classroom discussions, activities, lectures, etc.

Examples of unacceptable classroom conduct includes:

- Coming to class late (on a regular basis)
- Failure to turn off electronic devices including cell phones, ipods/mp3 players and similar devices.
- Printing files or documents during class (unless specifically requested to do so).
- Private conversations during lectures, presentations etc. (via voice or electronic means)
- Playing Internet games, surfing the web, reading email/blogs, working on homework, or other activities inappropriate with what is happening in the class.
- Aggressive, threatening, or demeaning behavior towards other students or the instructor.

## **Weather Related Closures**

Make sure to call ahead to confirm whether class is meeting if you have any concerns about snow accumulations or icy roads that would make travel to campus unsafe. You can call the University's hotline after 6 a.m. (535-7100) or access the PLU website (<https://www.plu.edu>) to see if classes have been cancelled.

## **Special Needs and Circumstances**

If you need academic accommodations because of a documented disability, have emergency medical information to share with me, or need special arrangements in case the building must be evacuated, please make an appointment with me as soon as possible. If you have questions concerning the services available for students who need reasonable accommodations, contact the Office of Accessibility and Accommodation at 253-535-7073 or [oa@plu.edu](mailto:oa@plu.edu).

## **Important Dates and Deadlines**

- The last day to add a class (w/o fee) – **February 11<sup>th</sup>**
- The last day to drop a class – **February 18<sup>th</sup>**
- The last day to file for Pass/Fail – **March 25<sup>th</sup>**
- The last day to withdraw from a class with a W grade – **May 6<sup>th</sup>**