# WBUOnline

# SCHOOL OF MATHEMATICS & SCIENCES

# Wayland Mission Statement:

Wayland Baptist University exists to educate students in an academically challenging, learning-focused and distinctively Christian environment for professional success and service to God and humankind.

**Name of Instructor:** Mark Munoz, Adjunct Faculty

**Office Phone Number and WBU Email Address:**

 Phone: 210-534-7777

 Email: mark.munoz@wayland.wbu.edu

**Office Hours, Building, and Location:**

N/A

# Class Meeting Time and Location: Online (Asynchronous)

# Catalog Description:

Overview of a database system and its components; physical organization of data; data models; relational databases; and query processing. Prerequisite(s): CSCI 2313

# Prerequisites:

CSCI 2313

# Required Textbook:

*Introduction to Databases with SQL (with zyLabs)*, Paul Winsberg, Zybooks, 2021.
***NOTE:****Zybooks etextbook accessible directly through your Blackboard*

**Supplies:**

Students will need access to a machine on which they can install an appropriate Database Server/Client software package.

# Course Outcome Competencies:

Upon completion of this course the student should be able to:

1. Understand basic database concepts, including the structure and operation of the relational data model.
2. Construct simple and moderately advanced queries using Structured Query Language (SQL).
3. Understand and be able to apply logical database design principles, including E-R diagrams and database normalization.
4. Design and implement a small database project.
5. Understand the concept of a database transaction and related database facilities.

# Attendance Requirements:

Students are expected to participate in all required instructional activities in their courses. In this course, your weekly assignments will be the measure of attendance. Any week in which a student does not complete any work, the student will be considered “absent.” Any student absent 25% or more (i.e., non-participatory during 3 or more weeks of the term) will receive an F for the course.

# Statement on Plagiarism and Academic Dishonesty:

Wayland Baptist University observes a zero tolerance policy regarding academic dishonesty. Per university policy as described in the academic catalog, all cases of academic dishonesty will be reported and second offenses will result in suspension from the university.

# Disability Statement:

In compliance with the Americans with Disabilities Act of 1990 (ADA), it is the policy of Wayland Baptist University that no otherwise qualified person with a disability be excluded from participation in, be denied the benefits of, or be subject to discrimination under any educational program or activity in the university. The Coordinator of Counseling Services serves as the coordinator of students with a disability and should be contacted concerning accommodation requests at (806) 291-3765. Documentation of a disability must accompany any request for accommodations.

# Course Requirements and Grading Criteria:

**Reading (Participation Activities)**: Each week, there will be a chapter of material to read and complete in your textbook (e.g., ZyBook). The participation activities in each chapter that must be completed in order to receive credit. Assignments will be completed on the ZyBooks website which will be accessible through Blackboard.

**Homework (Challenge Activities):** In this textbook, the homework assignments that must be completed are called the Challenge Activities. These are also complete on Zybooks website accessible through Blackboard

 **Labs (zyLabs):** There are a sequence of SQL labs, mostly in Week 4, that must be completed for this portion of your grade. These are also on the Zybooks website accessible through Blackboard. Additionally, some weeks of the course will have labs related to the content for that week. These additional labs will be available and submitted directly through Blackboard.

**Weekly Quizzes:** At the end of each week of the course, you will be required to complete an online quiz covering the assignments from that week. The quizzes will be completed in Blackboard. You will have two attempts on each quiz. They are time limited but open book and open note.

**Exams:** During the course, there will be two major exams: a Midterm and a Final. Each test will cover approximately half the course.

# Grade Calculation:

10% Reading (PA)

20% Homework (CA)

20% Labs (zyLabs and BB Labs)

20% Weekly Quizzes

30% Exams (2 at 15% each)

A: 90 – 100 B: 80 – 89 C: 70 – 79 D: 60 – 69 F: Below 60

Students shall have protection through orderly procedures against prejudices or capricious academic evaluation. A student who believes that he or she has not been held to realistic academic standards, just evaluation procedures, or appropriate grading, may appeal the final grade given in the course by using the student grade appeal process described in the Academic Catalog. Appeals may not be made for advanced placement examinations or course bypass examinations. Appeals are limited to the final course grade, which may be upheld, raised, or lowered at any stage of the appeal process. Any recommendation to lower a course grade must be submitted through the Executive Vice President/Provost to the Faculty Assembly Grade Appeals Committee for review and approval. The Faculty Assembly Grade Appeals Committee may instruct that the course grade be upheld, raised, or lowered to a more proper evaluation.

# Course Schedule: (Tentative and Incomplete)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Week** | **Dates** | **Material** | **Exam Due** | **Labs Due** |
| 1 | 05/30-06/05 | 1. Database Basics
 |  |  |
| 2 | 06/06-06/12 | 1. Relational Databases
 |  |  |
| 3 | 06/13-06/19 | 1. Structured Query Language
 |  | SQL Lab  |
| 4 | 06/20-06/26 | 1. Database Design
 |  | Design Lab |
| 5 | 06/27-07/03 | 1. Data Storage
 | Midterm (Weeks 1-4) |  |
| 6 | 07/04-07/10 | 1. Transaction management
 |  |  |
| 7 | 07/11-07/17 | 1. Database Programming
 |  |  |
| 8 | 07/18-07/23\*\* | 1. NoSQL Databases
 | Final (Weeks 5-7) |  |

\*\* The course ends on a Saturday so 7/23 is the last day of the term.

# Academic Honesty:

Disciplinary action for academic misconduct is the responsibility of the faculty member assigned to this course. The faculty member is charged with assessing the gravity of any case of academic dishonesty, and with giving sanctions to any student involved.

# Important Dates:

Last day to withdraw with “W” Jul 1

Last day to withdraw with a “WP/WF” Jul 15

Last Day of Class Jul 23

This syllabus is only a plan.  The teacher may modify the plan during the course.  The requirements and grading criteria may be changed during the course if necessary.