

**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:** Dr. Scott R. Franklin, Professor of Mathematics and Computer Science

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

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

TBD

**Moody Science Building (MSB) Room 121**

**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:**

*Database Systems: Design, Implementation, & Management*, 13th ed, Carlos Coronel, Steven Morris. Cengage, 2019

***NOTE:*** *VitalSource 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:**

**Assignments:** There will be homework assignments for each section covered. The assignments will be completed in Cengage MindLinks which will be accessible through Blackboard. No late homework will be accepted. If there are extreme circumstances, contact your instructor. The two lowest homework assignments will be dropped.

**Database Project:** As part of this course, you will be required to complete portions of a database project. Phases of the project will be assigned throughout the course, including Relational Model and EER Model diagrams, Database setup, and advanced SQL queries.

**Weekly Quizzes:** At the end of each week of the course, you will be required to complete an online quiz covering the modules/assignments from that week. The quizzes will be completed in Blackboard.

**Exams:** During the course, there will be two major exams: a Midterm and a Final. Each test will cover approximately half the course. Both of the tests are to be taken in person at one of the external campuses, a testing center, or through an online proctoring system. They must be proctored by an approved representative of the University.

**Grade Calculation:**

40% Assignments/Database Project  
20% Weekly Quizzes  
40% Exams (2 at 20% 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	Assignment	Quiz Due
1	8/17 - 8/24	Ch1 Database Systems	8/24: Ch 1	8/26: Ch 1
2	8/24 - 8/31	Ch2 Data Models; Ch3 Relational Model	8/31: Ch 2; Ch 3	9/3: Ch 2; Ch 3
3	8/31 - 9/7	Ch4 Entity Rel. Model; Ch5 EER	9/7: Ch 4; Ch 5	9/9: Ch 4; Ch 5
4	9/7 - 9/14	Midterm and Ch 6 Normalization	9/14: Ch 6; Ch 4 Case 1	9/14: Ch 6
5	9/14 - 9/21	Ch7 SQL	9/21: Ch 7	9/21: Ch 7
6	9/21 - 9/28	Ch8 Advanced SQL	9/28: Ch 8	9/28: Ch 8
7	9/28 - 10/5	Ch9 DB Design	10/5: Ch 9	10/5: Ch 9
8	10/5 - 10/10	Final and Project Due	10/10: Ch 8 Case 1	

**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 drop without record	Aug 24
Last day to withdraw with "W"	Sep 25
Last day to withdraw with a "WP/WF"	Oct 2
Last Day of Class	Oct 10

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.