

Course Plan (DBAS20146)

(This is a **tentative** Plan, please watch for updates)

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Course Evaluation:

Assignments (3 @ 10% each) 30.0%

Midterm Test 35.0%

Final Exam 35.0%

Promotion Policy

To pass the course, you should score an average of 50% on the tests and must have an overall average of 50% on all the graded works.

Exams/Quizzes/In-Class Assignments

- All exams/quizzes/in-class assignments must be written on the date specified at the time specified. Any student who has previously self-identified as needing special accommodation for in-class quizzes/activities must make arrangements one class prior to the quiz/activity.
- If you are late for a quiz/assignment, you will not be given extra time or a make-up.
- Any student who has previously self-identified as needing extra accommodations for an exam must submit their envelope to the professor two week in advance of the exam date, otherwise it is assumed that you are writing your exam at the normal date/time/location within the standard allotted time.
- If an exam/quiz/in-class assignment is missed, the professor must be notified by email 24 hours after the activity was scheduled to occur.
- If missed for a valid reason, documented proof must be provided. Valid reasons for missing an exam:

- 1) Illness, medical emergency.

2) Death in the family.

- If a student is aware of a medical situation or other situation (e.g. court date) ahead of time, they must notify the professor one week before the scheduled date.
- In a course with two or more exams, you must receive an **overall average of 50% on all exams in order to pass the course**. This is calculated as a weighted average.

Classroom Policies

All students are expected to abide by Sheridan's Student Code of Conduct (you will need to log in when prompted in order to view this document). The Student Code of Conduct defines the expected behaviors of students and the sanctions for violating the Student Code of Conduct.

Sheridan Acceptable Use Policy

Sheridan's Acceptable Use Policy governs the use of computer networks, all computers and other devices connected to those networks, and the resources made available thereby at Sheridan. It applies to all employees, students, alumni and any other users of the information resources at Sheridan

You should become familiar with this policy: know what is considered acceptable use of your computer on campus and what sanctions and penalties will be applied to you for violating this policy.

Use of Laptops

Laptops will be needed for most classes; whether you're writing programs trying in-class activities, or checking notes and documents that are parts of the course material.

However, it is often tempting to use the laptop for things that have nothing to do with the course, such as social media, watching videos or playing games (I'll be honest: I've been known to check my Facebook or Twitter during boring meetings and once I played Pocket Trains on my tablet under the desk!)

Acceptable Use of Laptop in Class:

Typing up notes from the professor's lecture

Working on programming problems demonstrated or assigned by the professor during class.

Researching topics being discussed in the current class

Unacceptable Use of Laptop (or other devices) in Class: (except during breaks)

Social networking/media (e.g. Facebook, Twitter, Flickr, Pinterest)

Chatting with friends/family

Reading news/sports/entertainment/etc. that is not related to the current class.

Playing games

Watching videos, listening to music

Texting friends/family/classmates/etc.

Anything else not pertaining to the course

Schedule

Week 1: Introduction (6th sep)

- Basic information about the Databases & what is Database
- Some terms
- Development Life cycle

Week 2: Design (13th sep)

- Primary Key
- Foreign Key
- ERD (One to Many)
- M-1

Week 3: Normalization (20th sep)

- How to Model a database
- What is Database ERD
- Normalization basics

Week 4: Walk through Database (27th sep)

- Introduction to normalization
- 1NF, 2NF, 3NF
- Assignment 1

Week 5: Querying a Database (4th of Oct)

- Creating & Dropping database
- Creating tables
- Data types
- Assignment 2 (Starts)

Week 6: Aggregation (11th of Oct)

- Doing basic queries
- Conditions
- Joins , and different type of joins

Week 7: Complex Queries (18th of Oct)

- Doing Aggregation
- Difference between Having & Where
- Aggregation Functions

Reading Week

Week 8: Mid term (1st of Nov)

- Assignment 2 Delivery
- **Optional** : managing server

Week 9 :Programming with PL/SQL -1 (8th of Nov)

- Assignment 3 Starts
- SQL Functions
- Using Sub queries
- Complex queries
- Problem Solving

Week 10: Programming with PL/SQL -2 (15th of Nov)

- Stored Procedures
- User Defined function

Week 11: Programming with PL/SQL -3 (22nd of Nov)

- Triggers
- Cursors

Week 12: (29th of Nov)

- Database Constraints
- Row Level & Statement Level Triggers
- Database Triggers

Week 13: (6 of Dec)

- Assignment 3 Delivery
- Troubleshooting & Common Problems
- Course Review
- **Optional** : ways to avoid cursors & what is locks
- **Optional** : Future of Databases & Data warehousing

Week 14: Finals - Good Luck (18 of Dec)