

Syllabus

Sul Ross State University, Spring 2017

CS3331 – Data Structures

Instructor: Dr. Kennard R. Lavers

Office Location: ACR 107

Office Telephone: (432) 837-8500

Electronic Mail: Kennard.lavers@sulross.edu

Office hours: Office hours:

MW 8:30am - 9:00am and 10:00am - 11:00am

TTH 8:30am - 9:30am and 11:00am - 12:00pm

F 10:00am - 11:00am

Meeting Times:

MWF 11:00 – 11:50 a.m. BAB 302

SQL Resource

http://www.headfirstlabs.com/sql_hands_on/

database

<https://p3nlmysqladm002.secureserver.net/grid55/93/index.php>

database :CS3331

pw:SulRossRules2!

Hostname

CS3331.db.9221010.hostedresource.com

Admin URL (phpMyAdmin)

<https://p3nlmysqladm002.secureserver.net/grid55/93>

Program Learning Objective

1. Understand the fundamental concepts of computer science including algorithms and data structures.
2. Understand modern computer systems, databases and networking.
3. Display an understanding and ability to implement current programming methodologies.

4. Become proficient with systems design based on object-oriented programming.
5. Work as a team in workgroup environments.

Course Objectives:

Study of the concepts of database management systems. Topics include file structures, access methods, database modeling and design, structured query language (SQL), and high level language interfaces to database systems. Offered spring even years. Prerequisite: CS 2315

Textbook:

Database Systems: Design, Implementation, & Management

By Carlos Coronel (Author), Steven Morris (Author)

Publisher: Cengage Learning; 11th edition

Teaching Methods

Assignments:

Exercises will be periodically assigned to help support and supplement material found in the textbook. No make ups are allowed, unless medical or extreme conditions are considered. No make ups are allowed, unless medical or extreme conditions are considered.

Grading

Letter grades will be determined using a standard percentage point evaluation as outlined below.

A 90 - 100 points

B 80 - 89 points

C 70 – 79 points

D 60 – 69 points

F Below 60 points

The final grade will be computed on the following weights:

Grade breakdown:

Homework ==> 25%

Participation ==> 25%

Midterm ==> 25%

Final ==> 25%

Attendance

Any student who accumulates 10 **unexcused** absences (MWF Classes) or 7 **unexcused** absences (MW classes) will be automatically dropped from this course.

Course Policies

Exams, quizzes and assignments: NO MAKE UPS ARE ALLOWED, unless medical or extreme conditions are present.

Academic dishonesty

You are expected to do your own work on all assignments, exams, quizzes, and projects. Any dishonest work will be penalized with a grade of zero.

Need for assistance

Qualified students with disabilities needing academic or other accommodations to ensure full participation in the programs, services and activities at Sul Ross State University should contact the Disabilities Services Coordinator, in Counseling and Prevention Services, Ferguson Hall 112, Box C-117, Alpine, Texas 79832.

Posting of Grades

As soon as assignments, tests and final exam are graded, the grades will be posted in Blackboard.

Additional resources

Stacks:

<https://www.youtube.com/watch?v=FNZ5o9S9prU>

<https://www.youtube.com/watch?v=2JpfHyGhIfs>

<https://www.youtube.com/watch?v=Z7f3IFqID0s>

Queues:

<https://www.youtube.com/watch?v=PjQdvpWfCmE>

<https://www.youtube.com/watch?v=GRzV2D5gsIM>

Heaps:

<https://www.youtube.com/watch?v=v1YUApMYXO4>

Priority Queues

https://www.youtube.com/watch?v=QJ_7S1p0Kj8

<https://www.youtube.com/watch?v=P4toxBX9M>

<https://www.youtube.com/watch?v=w647KdGJmpl>

Hash Tables

<https://www.youtube.com/watch?v=MfhjkfocRR0>

https://www.youtube.com/watch?v=Ke_tII6Y0GE