

Tarleton State University
Department of Mathematics and Physics
Course Syllabus

**CS 241 – Data Structures
Fall - 2009**

Instructor: Dr. Richard Reese

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Dept. web: <http://www.math.tarleton.edu>

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Office Hours: See Attached

Textbook & Materials: *The Design and Analysis of Algorithms*, by Anany Levitin, ISBN 0-321-35828-7

Homework: Homework will be assigned as appropriate. The due dates for these assignments will be listed with the assignment. Some of the assignments will involve programming utilizing the computer resources at Tarleton State University. Homework is due at the beginning of the class. A late penalty of 10% per day will be assessed after that. *No homework will be accepted after one week past the due date. No homework assigned prior to a test will be accepted after the test has been given.*

Quizzes: Quizzes will not be announced and will normally be given at the beginning of the period.

Exams: This course will have 3 regular exams and one Final Exam. Exam dates will be announced in class. The Final Exam will be from 11:30-2:00 on Wednesday, December 9 in the regularly scheduled classroom.

Grading: Grading will be conducted a 1000 point scale. The number of homework assignments and quizzes has not been determined. The total points assigned will be adjusted at the end of the semester to 200 points.

Homework/Quiz	200 pts	900-1000 pts	A
Test 1	200 pts	800-899 pts	B
Test 2	200 pts	700-799 pts	C
Test 3	200 pts	600-699 pts	D
Final Exam	200 pts	0-599 pts	F

Student Expectations:

Each student is expected to conduct themselves in a professional manner in class and labs. Each student is expected to participate in class discussions. Learning is an active process.

Course Outline:

Week	Date	Comments	Chapter
1	8/24		1 - Introduction
2	8/31	Holiday Monday (9/7)	2 - Fundamentals of the Analysis of Algorithm Efficiency
3	9/7		3 - Brute Force
4	9/14	Test 1	4 - Divide and Conquer
5	9/21		
6	9/28		5 - Decrease and Conquer
7	10/5	Midterm Exam	
8	10/12		6 - Transform and Conquer
9	10/19		
10	10/26		7 - Space and Time Tradeoffs
11	11/2	Test 3	8 - Dynamic Programming
12	11/9		9 - Greedy Algorithms
13	11/16		10 - Iterative Improvement
14	11/23	Thanksgiving (26-27)	11 - Limitations of Algorithm Power
15	11/30	Restricted Activities start Wednesday 12/2 Last Class day Thursday 12/3	12 - Coping with the Limitations of Algorithm Power
16	12/7	12/9 Final Wednesday 11:30-2:00	

University Policy: Students are responsible for knowing and abiding by the policies and information contained in the Tarleton Student Handbook. [TSUSH]

Student Responsibilities: The student is *solely* responsible for:

- Completing each assignment by the specified due date.
- Obtaining assignments and other materials for classes from which they are absent.
- Giving as much of an effort as it takes to pass this course.

Academic Conduct: Students guilty of academic dishonesty, cheating, or plagiarism in academic work shall be subject to disciplinary action. [TSUSH] The instructor may initiate disciplinary action in any case of academic misconduct.

Services for Students with Disabilities: Students with documented disabilities may request reasonable accommodations which will enable them to participate in and benefit from all educational programs and activities. Successful accommodation often requires advance planning. Therefore, all students are strongly encouraged to make early contact with the Associate Vice President for Academic Affairs, (254) 968-9103, in order to identify their needs and to ensure that services will be available in an effective and timely manner. [TSUSH]

Absence Policy: Class absence policies will be established and enforced by each individual course instructor. The course instructor may recommend to the Dean of Students that a student be dropped from a course if excessive absences prevent satisfactory progress. [TSUSH] Attendance will not be recorded for this course. The student is responsible for any material covered.

Makeup Policy: Each course instructor has the responsibility and authority to determine if work can be made-up because of absences. [TSUSH] Students may request make-up considerations for valid and verifiable reasons such as the following:

- Illness
- Death in the immediate family
- Legal proceedings
- Participation in sponsored University activities (It is the responsibility of students who participate in University-sponsored activities to obtain a written explanation for their absence from the faculty/staff member who is responsible for the activity.)

Drop Policy: A student who withdraws from a course before the thirteenth class day of a regular semester or before the fifth class day in a summer term receives no grade, and the course will not be listed on that student's permanent record. A student who withdraws from a course before the end of the tenth week of a regular semester or the fourteenth class day of a summer term receives a grade of W. [TSUCAT]

Notes:

- In the event that the university is closed for a scheduled class time, whatever was scheduled for that day and/or whatever was due that day will be scheduled and/or due on the next scheduled class time.
- You are expected to present a TSU ID upon request.
- **All items contained in this syllabus are subject to change as the semester progresses. Students will be notified in advance of any changes.**

Dr. Reese Schedule – Fall 2009

Science Building - Room 213F

	Monday	Tuesday	Wednesday	Thursday	Friday
8:00	CS 344 <i>Room 206</i>		CS 344 <i>Room 206</i>		CS 344 <i>Room 206</i>
9:00	Office Hours		Office Hours		Office Hours
10:00	CS 230 <i>Room 206</i>	CS 241 <i>Room 206</i>	CS 230 <i>Room 206</i>	CS 241 <i>Room 206</i>	CS 230 <i>Room 206</i>
11:00	Office Hours	Office Hours	Office Hours	Office Hours	Office Hours
12:00					
1:00	Office Hours	Office Hours	Office Hours		Office Hours
2:00		CS 241 Lab <i>Room 206</i>	CS 230 Lab <i>Room 206</i>		CS 344 Lab <i>Room 206</i>
3:00		CS 241 Lab <i>Room 206</i>	CS 230 Lab <i>Room 206</i>		CS 344 Lab <i>Room 206</i>
4:00					