CSC 222
Data Structures & Algorithms II, Fall 2015

Section A: T Th 9:30 - 10:45pm  Man 241

Instructor
Dr. V. Paúl Pauca
office: 235 Manchester Hall
tele: 336.758.5454
eemail: paucavp@wfu.edu
course web: http://csweb.cs.wfu.edu/~pauca/CSC222.html

Course
Textbook:
Algorithms, Dasgupta, Papadimitriou, Vazirani

Grading:
2 Tests midterm + final .......... 35%
4 Quizzes ......................... 10%
3 Programming Assignments ...... 24%
Homework sets .................... 26%
Attendance ....................... 5%

Topics Covered

• Big-O notation
• Algorithms with numbers
• Divide-and-conquer
• Decomposition of graphs
• Paths in graphs
• Greedy algorithms
• Dynamic programming
• NP-complete problems
• Coping with NP-completeness

Attendance: Regular attendance of class is expected.

Midterm and the Final Exam: A midterm test and a final exam will be admin-
istered. Both tests will cover the material from the assigned readings and lectures
and are closed book. Make-up tests will be administered only if properly excused
in advance.
Quizzes: Four 10-minute quizzes will be administered during the semester. The lowest quiz score will be dropped. Quizzes will be announced about a week before. You will not be able to makeup a quiz if you miss class on the day a quiz is schedule.

Programming assignments: Three (or maybe four) programming assignments will be given during the semester. You will have two weeks to complete each assignment. You can program in Java or C++ in the IDE of your choice.

Homework: Homework will be assigned throughout the semester to reinforce the material covered in the lectures. Homework assignments will be periodically reviewed in class. Late homework will be accepted with 15% of the grade deducted per day, no exceptions.

Academic Integrity: All tests, programs, and homework are to be done independently by each student, except for pre-specified group projects. Copying of partial or complete work will not be tolerated and will be referred to the University Judicial System. Do not throw away or recycle any notes until the end of the semester. Should a question of authorship arise you will be expected to produce hand-written and printed documents that trace the development of your work.

Special Needs: If you have a disability that may require an accommodation for taking this course, then please contact the Learning Assistance Center (758-5929) within the first two weeks of the semester.

Course Plan in the Event of Closure of the University: In the event that the University closes due to pandemic or other disaster, the course will be continued through the internet or by postal mail, if the former is not available. Professor Pauca will distribute class notes, weekly lab material, and homework through the course webpage (csweb.cs.wfu.edu/~pauca/CSC222.html) or by postal mail in the case of internet service failure. Class notes will contain extensive lecture material as well as short exercises designed to test the students comprehension of the material. Office hours will be held through the internet using either Skype (wspauquitas) or iChat (paulpauca). Students will be required to turn in assignments electronically using Sakai or by postal mail to: Paul Pauca, 200 Harmon Ct, Winston-Salem, NC 27106. Examinations will be distributed by internet, email, or postal mail, as needed. Return date and time for examinations will be clearly specified. In addition Professor Pauca will be accessible by email: paucavp@wfu.edu, paulpauca@gmail.com.

Important Dates

Please refer to the online course schedule:

csweb.cs.wfu.edu/~pauca/CSC222ScheduleSpring2015.html

for information about examinations, project assignments, quizzes, and homework dates.