

MthSc 814 — *Network Flow Programming* (Fall 2009)

Meeting Time: 2:30–3:20 MWF, M-204 Martin

Instructor: Dr. D. Shier, 656-1100, O-120 Martin, shierd@clemson.edu

Office Hours: Tu Th 12:30–1:45, W 12:20–1:10, and by appointment

Textbooks: R. K. Ahuja, T. L. Magnanti, J. B. Orlin, *Network Flows*, Prentice Hall, 1993 (required)
814 Course Notes, 200+ pages, available at Campus Copy, Rubin Square (required)

Web Page: <http://www.math.clemson.edu/~shierd/Shier/MthSc814/ms814.html>

Prerequisites: MthSc 810 (linear programming) is desirable but not essential

Grading Policy: 40% Two Hour Tests
25% Homework Assignments
35% Final Exam (Thursday, December 10, 3:00-5:30)

☞ The homework assignments are designed to be stimulating and educational experiences. General discussion among students is fine. However, be sure to turn in your *own* written work.

Grading Scale: A = 85+
B = 70–85
C = 55–70

Class Attendance: Students are expected to attend class regularly and punctually. If the instructor does not arrive within 15 minutes after the designated start of class, the class is considered dismissed.

Course Contents: Preliminary concepts (complexity, graph searching), shortest paths, maximum flows, minimum cost flows, combinatorial implications. The course will also stress formulations, applications, algorithms, and solution of network problems using computer software (*netsolve*, available on the PCs located in E-7).

Official Policies:

- It is University policy to provide, on a flexible and individualized basis, reasonable accommodations to students who have disabilities. Students are encouraged to contact Student Disability Services to discuss their individual needs for accommodation.
- Clemson's academic integrity policies will be followed; see the following web sites

http://www.clemson.edu/ugs/academic_integrity/index.html

<http://gradspace.editime.com/AcademicGrievancePolicyandProcedures-integritypolicy>