

# Communications Network Design

## Matthew Roughan

### School of Mathematics, University of Adelaide

- Lecturer: Dr Matthew Roughan
  - Room 4.46, 10 Pultney St (near corner of North Terrace and Pultney)
  - [matthew.roughan@adelaide.edu.au](mailto:matthew.roughan@adelaide.edu.au)
  - <http://www.maths.adelaide.edu.au/matthew.roughan>
- Lecture Times:
  - Wednesday 1.10-2.00, Engineering South 112
  - Thursday 2.10-3.00, Napier LG23
- **fill in the signup sheet**
- Assessment: class exercises 10%, mini-project 15%, exam 75%  
It is a requirement for passing this course that students have a satisfactory grade in all components.
- Consulting times: 2.10-3.00pm Wednesday (or by appointment)
- Supplementary Examinations Please visit <http://www.adelaide.edu.au/student/exams/supps.html> for details of the Supplementary Exam policies. Note: students whose grade falls between 40-44% will only be offered an academic supplementary exam provided they have achieved a satisfactory level of performance in all components of this course.
- **Policy on plagiarism:** Students **must** understand the University Plagiarism policy  
<http://www.adelaide.edu.au/policies/230/>  
The School encourage students to work together and to seek help from staff, but all assignments and reports submitted for assessment must be the student's own work unless otherwise specified by the lecturer. A cover sheet must be submitted for class exercises (and project) to state that you have read and understood this policy. Assignments without a cover sheet will get **zero**.
- Lecture Notes
  - based on notes of Dr Liz Cousins (and Dr Franz Salzborn)
  - will be provided on a CD (next week)
  - hardcopy of the notes will be provided for \$20 (to recover printing costs). Those wishing printed notes should fill in the appropriate bit of the signup sheet.
  - all updated on web page  
[http://www.maths.adelaide.edu.au/matthew.roughan/Lecture\\_notes/Comm\\_Net\\_Design/](http://www.maths.adelaide.edu.au/matthew.roughan/Lecture_notes/Comm_Net_Design/)
- Assumed knowledge:
  - basic concepts of optimization (e.g. linear programming)
  - helpful to know something about computer networks
  - Matlab programming
- References: based on research papers from, e.g.
  - IEEE/ACM Transactions on Networking (Barr Smith Library 621.3806 I5t NET)
  - Networks (Barr Smith Library 519.105 N476)
- Supplementary Exams: see relevant policies on your course web page. For those lucky enough to receive a supplementary exam, it will be an oral exam.