Lecturer: Prof. S. Barry Cooper
Office: EC Stoner 7.59  e-mail: s.b.cooper@leeds.ac.uk
Homepage: http://www.amsta.leeds.ac.uk/~pmt6sbc

Taught sessions with lecturer:
Mondays 12–1pm, in Chemistry West Block LT F;
Wednesdays 9–10am, in Chemistry LT A;
and Wednesdays 11am–12 noon, in Roger Stevens LT 20.

Tutorials with post-graduate instructors: See your timetable.

Free Maths drop-in sessions at Skills@Library, 15 Blenheim Terrace:
Mondays to Thursdays 1–4pm.
For details see: http://library.leeds.ac.uk/skills-1-to-1-support


Outline syllabus:

§1. BASIC ALGEBRA:
Bostock and Chandler, pages 1–19, and pages 33–38.

§2. SURDS, INDICES AND LOGARITHMS:

§3. COORDINATE GEOMETRY:

§4. TRIGONOMETRIC FUNCTIONS:
§5. FUNCTIONS AND DIFFERENTIATION:

§6. FURTHER DIFFERENTIATION, CHAIN RULE:

§7. MAXIMA AND MINIMA, TANGENTS:

§8. DIFFERENTIATING TRIG FUNCTIONS:

§9. IMPLICIT DIFFERENTIATION, INVERSE TRIG FUNCTIONS, LOGS:

§10. LOGS, EXPONENTIAL FUNCTION, TANGENTS:
Bostock and Chandler, pages 206–212.

§11. REVISION:
Exam papers.

NOTE: There will be ten sets of problems, and these will be an essential part of the course. The marks for the first NINE sets of problems will contribute 15% to the final grade (each set of problems will be marked out of 5).