

## MATH43032/63032 Nonstandard Logics, 2013-14

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Tutorial: Thursday 11.00-12.00, ATB G.108, starting 30th Jan..

Office hour: Tuesday 1.30-2.30

**Coursework deadlines:** Tuesday 25th Feb. and Thursday 3rd Apr., to be handed in to the Undergraduate Office Reception by 4.00pm.

This is a **reading course** though I will give an optional weekly tutorial outlining the material I suggest that you cover before the next tutorial.

The course notes for MATH43032/63032 are in 4 documents, *MATH4/63032 Nonmonotonic Logic*, *MATH4/63032 Modal Logic*, *MATH4/63032 Real Valued Logics* and the *Solutions for Examples Sheet 3*, *MATH4/63032 Real Valued Logic* which you can find on my web page under 'Teaching Material'.

You should expect to cover the material in the order Nonmonotonic Logic (4 weeks), Modal Logic (3 weeks), Real Valued Logics (4 weeks). For the Nonmonotonic Logic section I suggest that you plan to have read:

p1-10 by 6th Feb.  
p11-17 (end of Section 2.3) by 13th Feb.  
p17-21 by 20th Feb.  
p22-31 by 27th Feb.

For the Modal Logics:

p1-8 by 6th Mar.  
p9-15 by 13th Mar.  
p16-20 by 20th Mar

For the Real Valued Logics:

p1-8 (up to but not including Theorem 3) by 27th Mar.  
p8-12 (up to but not including 'Łukasiewicz Logic') by 3rd Apr.  
p12-18 (up to 'We now turn . . .') by 1st May.  
p18-25 by 8th May.

Also available on my web page are the exams and solutions for the past 5 years. **CONTRARY TO MY EARLIER ANNOUNCEMENT THE 2013-14 EXAM WILL BE 2.5 HOURS** as it was in previous years it was 2.5 hours. The general format will be the same as for 2012-13 except that part B questions will carry 12 marks each and Part A will be worth 56 marks. If you

answer more than the prescribed 2 questions in Section B only the first 2 appearing in your answer book will be marked. So if you try all 3 make sure you cross out the one you don't want included (and then write STET beside it if you change your mind and decide that you now do want it included at the expense of some other question!).

The 2013-14 exam will have the rubric:

Answer ALL FIVE questions in Section A (56 marks in all). Answer TWO of the THREE questions in Section B (24 marks in all).

If more than TWO questions from Section B are attempted, then credit will be given for the FIRST TWO answers.

**A list of axioms and rules of proof is appended to this examination paper**

*The use of calculators is not permitted*