

SEM2		XE101 - Mathematics for Engineers B	
No.	Tuesday	Material identified during lecture slot	Action plan, with <i>Bold italics</i> to indicate what was not done?
1	08-Feb	2004/2005	
2	15-Feb	Intro to module-Sections: [Differential Equations, Probability & Statistics, Matrices] This week's lectures: Differential Equations: (Lecture A) solving such like $d^2x/dx^2=f(x)$; (Lecture B) Solving by separation of variables & Integrating factor	Simple equations such as in the 1st lecture shouldn't be too hard! Separation of variables I have also covered at A-Level, so that shouldn't be a problem either. Must do some work on the 'integrating factor' though! Must do the Exercises set.
3	22-Feb	(Lecture A) 2nd order constant coeff. Diff Eqns (Lecture B) Non-Homogenous 2nd order D.E.	(A) Quite confusing! This will need quite a bit of revision before the module exam (before easter hols) (B) Similar to (a) but now with the added confusion of non-homogenous equations!
4	01-Mar	(Lecture A) Worked example of non-hom DE; Numerical methods. (Lecture B) Numerical methods- Runge-Kutta 4th order method	As previous lectures - need to try and learn formulae and get practice of these Diff Eqns
5	08-Mar	Quick review of DEs, then onto matrices	Matrices seem to make sense. Need to revise the D.E.s for next week's exam!
6	15-Mar	(Lecture A): Using matrices to solve simultaneous equations. (Lecture B) Revision for exam and exam	Need to get some past exam papers and practise all these topics!
7	22-Mar	Easter Vacation	
8	29-Mar	Easter Vacation	
9	05-Apr	[Probability and Stats Module starts] (Lecture A) Probability - Definition	(Lecture A) All seems to make sense so far... I'm expecting stats will be harder
10	12-Apr	Events' - inc complements, 'Or', 'AND'; $P(A B)$ - probability of A given B has happened ($P(A B) = P(A \text{ AND } B)/P(B)$)	All makes sense... need to remember / become familiar with some of the equations / expressions / terms
11	19-Apr	(lecture A cancelled); Random Variables	Need practise & revision on all of the terms used here (E, A, p, n, X...)
12	26-Apr	Conditional Probability, Binomial Distribution	Need to practice a few examples
13	03-May	Normal Distribution	This is all quite easy - the formula and tables are given in bird and may (the formula book available in the exam room)
14	10-May	Examination (10 may), revision	Only one question I couldn't do - didn't know the binomial distribution formulae (expected to be given, will be given in exam) - 8 marks / 50 lost
15	17-May	revision	
16	24-May	revision	
17	31-May	Examination week	
18	07-Jun	Examination week	