

SEM1		XE100 Mathematics for Engineers	
No.	No. Tuesday	Material identified during lecture slot	Action plan, with <i>Bold italics</i> to indicate what was not done?
0	1	28-Sep	
1	2	05-Oct	Complex numbers; geometrical representation and arithmetic rules This is all a bit confusing... must buy the suggested text book and go through some examples
2	3	12-Oct	Complex numbers; $a+jb$ representation; polar; arithmetic Ah, it all seems to make more sense in $a+jb$ form... must practise polar representation
3	4	19-Oct	Vectors; free and fixed; arithmetical rules Done (3d) vectors before - easy
4	5	26-Oct	Dot & Cross products; applications Must revise dot product (learnt at a-level). Must learn Cross Product and methods
5	6	02-Nov	Elementary functions; Taylor series Missed the beginning of this lecture due to bad traffic - must read up on it later
6	7	09-Nov	Elementary differentiation; geometric interpretation; rate of change Done this at a-level - easy
7	8	16-Nov	Basic rules of differentiation As Above
8	9	23-Nov	Integration; definite and indefinite; connection As Above
9	10	30-Nov	Integration; rules; partial fractions Must revise these rules! Making more sense this time round than at a-level though
10	11	07-Dec	Numerical differentiation introduction; applications Pretty straight forward, formulae will be provided for the exam
		14-Dec	Numerical differentiation; Simpson's rule As Above
		21-Dec	Holidays
		28-Dec	Holidays
11	12	04-Jan	Revision Revision
12	13	11-Jan	Revision Revision
13	14	18-Jan	Revision No lessons scheduled this week
14	15	25-Jan	Examinations Examinations
15	16	01-Feb	Examinations Examinations
16	17	08-Feb	