

Overview Mathematics 2 – block 3 2012/2013

Week	Webcasts	Corresponding parts in Sydsæter & Hammond	Exercise lecture	Try to make the homework below <i>before</i> the tutorial session (unless indicated otherwise, the problems are from Sydsæter & Hammond):		Interim test
				3th edition Sydsæter & Hammond	4th edition Sydsæter & Hammond	
1			Course introduction Tuesday 8 January 11:00-11:45 CB-5	Differentiation refresher problems (will be posted on BB)	Differentiation refresher problems (will be posted on BB)	
1/2	Basic Concepts of Integration	Sections 9.1, 9.2 (only Example 1), 9.3 (except "Continuous Functions are Integrable" and "The Riemann Integral") and 9.4 (only "Consumer and Producer Surplus")	Tuesday 15 January 11:00-12:45 CB-5	<i>16/17 January:</i> Sec 9.1: problems 1, 2, 4, 5 and 11 Sec 9.2: problems 1, 3, 4, 5 and 7 Sec 9.3: problems 1a,b,c,e,f, 3 and 4 Sec 9.4: problems 1, 5 and 7 Review Ch 9: problems 1, 3a t/m e, 10	<i>16/17 January:</i> Sec 9.1: problems 1, 2, 4, 5 and 11 Sec 9.2: problems 1, 3, 4, 5 and 7 Sec 9.3: problems 1a,b,c,e,f, 5 and 6 Sec 9.4: problems 1, 5 and 7 Review Ch 9: problems 1, 3a t/m e, 10	Digital test 1 about the material covered in week 1/2
2/3	Advanced Techniques of Integration Linear Programming	Sections 9.6 and 9.7 (except "A Comparison Test for Convergence") Section 7.1	Tuesday 22 January 11:00-12:45 CB-5	<i>23/24 January:</i> Sec 9.3: problem 1d Sec 9.6: problems 1, 2a,b,c and 3 Sec 9.7: problems 1, 4 and 7 Review Ch 9: problems 3f, 4a,b,e,f, 5c Sec 17.1: problems 2, 3 and 6	<i>23/24 January:</i> Sec 9.3: problem 1d Sec 9.6: problems 1, 2a,b,c and 3a,b,c Sec 9.7: problems 1, 4 and 7 Review Ch 9: problems 3f, 4a,b,e,f, 5c Sec 17.1: problems 2, 3 and 6	Digital test 2 about the material covered in week 2/3
3/4	Interest Rates and Present Values Matrices	Sections 10.1, 10.2, 10.3, 10.4 and 10.5 (except Example 2 in 10.3) Sections 15.1, 15.2, 15.3 and 15.4 (except Examples 6 and 7 in 15.4)	Tuesday 29 January 11:00-12:45 CB-5	<i>30/31 January:</i> Sec 10.1: problems 2, 3 and 8 Sec 10.2: problems 3 and 4 Sec 10.3: problem 1 Sec 10.4: problems 2, 3 and 6 Sec 10.5: problems 2, 5 and 6 Sec 15.1: problems 1 and 6 Sec 15.2: problem 4 Sec 15.3: problems 3 and 4 Sec 15.4: problems 2 and 4	<i>30/31 January:</i> Sec 10.1: problems 2, 3 and 8 Sec 10.2: problems 3 and 4 Sec 10.3: problem 1 Sec 10.4: problems 2, 3 and 6 Sec 10.5: problems 2, 5 and 6 Sec 15.1: problems 1 and 6 Sec 15.2: problem 4 Sec 15.3: problems 3 and 4 Sec 15.4: problems 2 and 4	Digital test 3 about the material covered in week 3/4

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4/5	Transpose matrix, Gaussian elimination and vectors	Sections 15.5, 15.6, 15.7 and 15.8 (except "3-space and n-space" and further)	Tuesday 5 February 11:00-12:45 CB-5	<i>6/7 February:</i> Sec 15.5: problems 1 and 4 Sec 15.6: problems 1 and 4 Sec 15.7: problems 2, 5 and 8 Sec 15.8: problem 1	<i>6/7 February:</i> Sec 15.5: problems 1 and 4 Sec 15.6: problems 1 and 4 Sec 15.7: problems 2, 5 and 8 Sec 15.8: problem 1	Digital test 4 about the material covered in week 4/5
5/6	Determinants and inverse matrices	Chapter 16 except the following: section 16.3 , "On the proof of Theorem 16.4.1" in 16.4, Expansion by Alien Cofactors in 16.5, Example 4 in 16.6, proof of Theorem 16.6.1 and the 4 notes following this proof in 16.6, Homogenous Systems of Equations in 16.8.	Tuesday 12 February 11:00-12:45 CB-5	<i>13/14 February:</i> Sec 16.1: problems 1a,b,d, 3 and 4 Sec 16.2: problems 1b,c,d, 2 and 3 Sec 16.4: problems 1, 3a,b and 6 Sec 16.5: problems 1 and 2 Sec 16.6: problems 2, 4 and 9 Sec 16.7: problems 1b,c, 2 and 5 Sec 16.8: problems 1b, 2 and 3 Sec 16.9: problems 2 and 4	<i>13/14 February:</i> Sec 16.1: problems 1a,b,d, 3 and 6 Sec 16.2: problems 1b,c,d, 2 and 3 Sec 16.4: problems 1, 3a,b and 6 Sec 16.5: problems 1 and 2 Sec 16.6: problems 1b, 3 and 8 Sec 16.7: problems 1b,c, 2 and 5 Sec 16.8: problems 1b, 2 and 3 Sec 16.9: problems 2 and 4	Digital test 5 about the material covered in week 5/6
6/7	Difference equations	Lectures notes (will be posted on BB)	Tuesday 19 February 11:00-12:45 CB-5	<i>20/21 February:</i> See file <i>Problems Difference Equations</i> (will be posted on BB)	<i>20/21 February:</i> See file <i>Problems Difference Equations</i> (will be posted on BB)	Digital test 6 about the material covered in week 6/7
8	Written exam on Friday 1 March 2013 from 9.30 to 12.30 hrs (Resit on Wednesday 10 July 2013 from 9.30 to 12.30 hrs)					