

Department of Economics
22 February 2009
A. Strøm, room 1119, ES

ECON3120/4120 Mathematics 2, spring 2009

Revised lecture plan for the period 23 February—14 May

Lecture plan:

- Mon 23.2 Vectors. Scalar products. Summation notation. (EMEA 15.7—15.9, 3.1—3.3)
- Thur 26.2 Matrices. (EMEA 15.1—15.5)
- Mon 2.3 Gaussian elimination. Determinants. (EMEA 15.6, 16.1—16.3)
- Thur 5.3 No lecture
- Mon 9.3 Determinants. (EMEA 16.4—16.5)
- Thur 12.3 Inverse matrices. Cramer's rule. (EMEA 16.6—16.8)
- Week 12 "Reading week". No lectures or seminars in this course 16.3—20.3.
- Mon 23.3 The chain rule with several variables. (EMEA I 12.1—12.2)
- Thur 26.3 Homogeneous functions. (EMEA 12.6—12.7)
- Mon 30.3 Derivatives of implicit functions. Slope of level curves. Derivatives of inverse functions. (EMEA I 7.1—7.3, 12.3—12.4)
- Thur 2.4 Straight lines and planes. Tangent planes. Differentials. (EMEA 15.9, 12.8—12.9)
- Easter No lectures or seminars 6.4—14.4.
- Thur 16.4 Differentiation in equation systems. (EMEA 12.10—12.11)
- Mon 20.4 Maxima and minima. (EMEA 8.1—8.6 (brief review), 13.1—13.6)
- Thur 23.4 Constrained maxima and minima. (EMEA 14.1—14.5)
- Mon 27.4 Constrained maxima and minima. The envelope theorem. (EMEA 14.5—14.6, 13.7)
- Thur 30.4 Nonlinear programming. (EMEA 14.7—14.8, parts of FMEA 3.5—3.8)
- Thur 7.5 Elasticities. Finding elasticities of implicit functions. (EMEA 7.7, 11.8, 12.5)
- Thur 14.5 Final review and summing up.

The final **exam** is scheduled for 2 June, 14:30—17:30 (but watch out for possible changes).

Keep an eye on the **ECON4120** home page!