Course Literature, Autumn Term 2020

MATA21 Analysis in One Variable

- Jan-Fredrik Olsen, Lecture Notes in One Variable Analysis for Scientists, 2016. Provided by the department.

MATA22 Linear Algebra 1

- Lecture Notes provided by the department.
- Karl Gustav Andersson, Lineär algebra, 2000. (Swedish)

MATA23 Foundations of Algebra


MATB21 Analysis in Several Variables 1


MATB22 Linear Algebra 2

- Kjell Elfström, Linear algebra, 2017. Provided by the department.

MATB23 Analysis in Several Variables 2

MATB24 Linear Analysis

MATB25 Discrete Mathematics

• Karl-Gustav Andersson, *Finite Fields and Error-Correcting Codes*, Lund University, 2015. Provided by the department.

MATC12 Ordinary Differential Equations 1

MATC20 Image Analysis


MATC51 Optimization

MATC70 Matrix Theory

MATM12 Analytic Functions

MATM30 Mathematical Foundations of Probability

MATM33 Differential Geometry
• Sigmundur Gudmundsson, *An Introduction to Gaussian Geometry*, Lund University, 2018. (main book)


• Andrew Pressley, *Elementary Differential Geometry*, 2010. (recommended complementary reading)

MATM35 Number Theory

MATP35 Linear Functional Analysis

**MATP45 Specialised Course on Linear Functional Analysis**


**NUMA01 Computational Programming with Python**


**NUMB11 Numerical Linear Algebra**


**NUMN20 Numerical Methods for Differential Equations**


**NUMN21 Advanced Course in Numerical Algorithms with Python/SciPy**


**MASA02 Mathematical Statistics, Basic Course**
