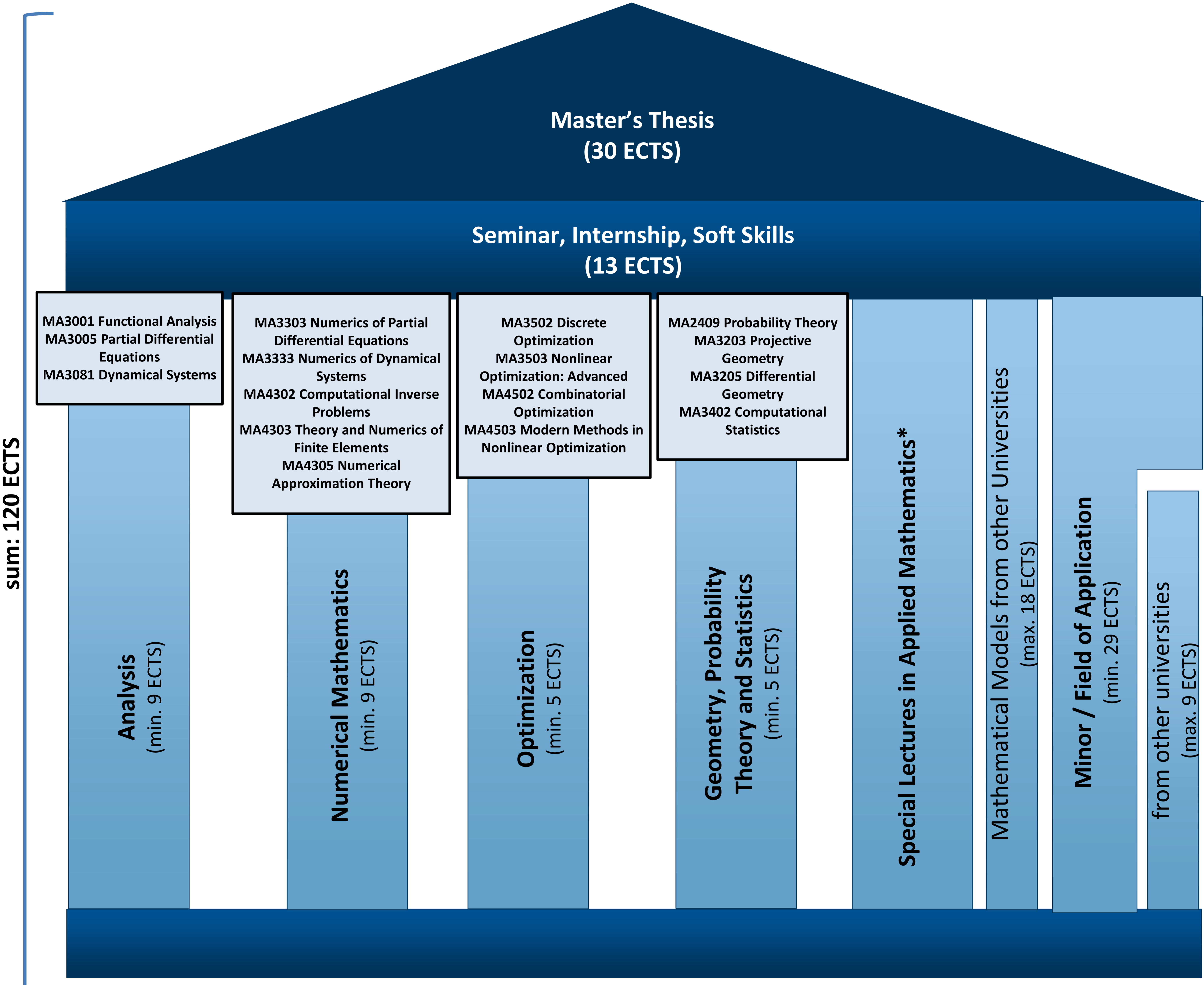


Course Overview

Mathematics in Science and Engineering



MA3001 Functional Analysis
MA3005 Partial Differential Equations
MA3081 Dynamical Systems

MA3303 Numerics of Partial Differential Equations
MA3333 Numerics of Dynamical Systems
MA4302 Computational Inverse Problems
MA4303 Theory and Numerics of Finite Elements
MA4305 Numerical Approximation Theory

MA3502 Discrete Optimization
MA3503 Nonlinear Optimization: Advanced
MA4502 Combinatorial Optimization
MA4503 Modern Methods in Nonlinear Optimization

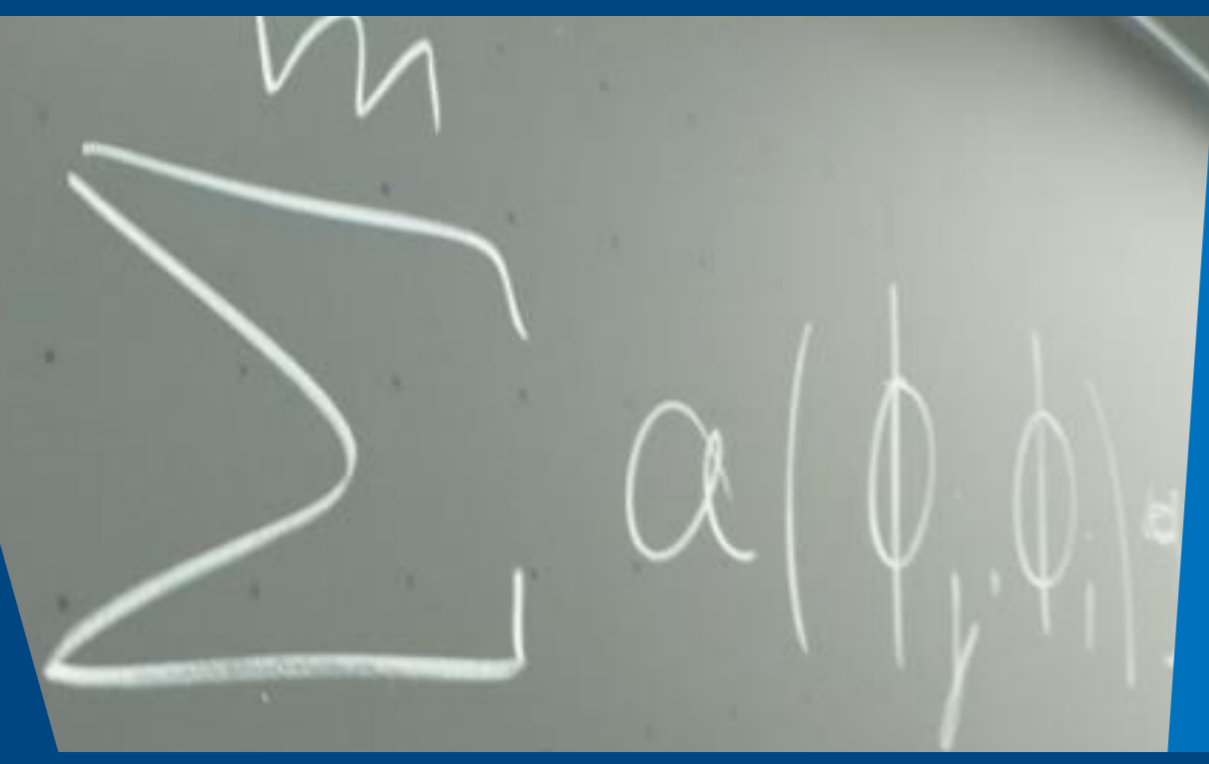
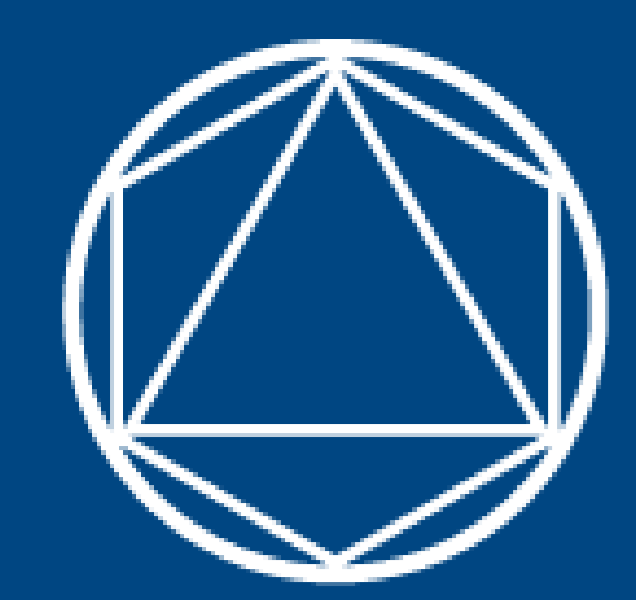
MA2409 Probability Theory
MA3203 Projective Geometry
MA3205 Differential Geometry
MA3402 Computational Statistics

Bachelor Mathematics

<p>Mandatory: MA1001 Analysis 1 MA1002 Analysis 2 MA1101 Linear Algebra 1 MA1102 Linear Algebra 2</p> <p>36 ECTS</p>	<p>MA2003 Measure and Integral MA2004 Vector Analysis MA2005 Ordinary Differential Equations MA2203 Algebraic Structures in Geometry MA2302 Numerical Analysis MA2402 Basics Series of Statistics MA2404 Markov Chains MA2501 Algorithmic Discrete Mathematics MA2503 Introduction to Nonlinear Optimization MA2204 Elementary Differential Geometry</p> <p>min. 38 ECTS</p>
<p>MA1401 Introduction to Probability MA1302 Introduction to Numerical Analysis MA1501 Introduction to Discrete Mathematics MA1902 Introduction to Mathematical Modeling</p> <p>min. 8 ECTS</p>	

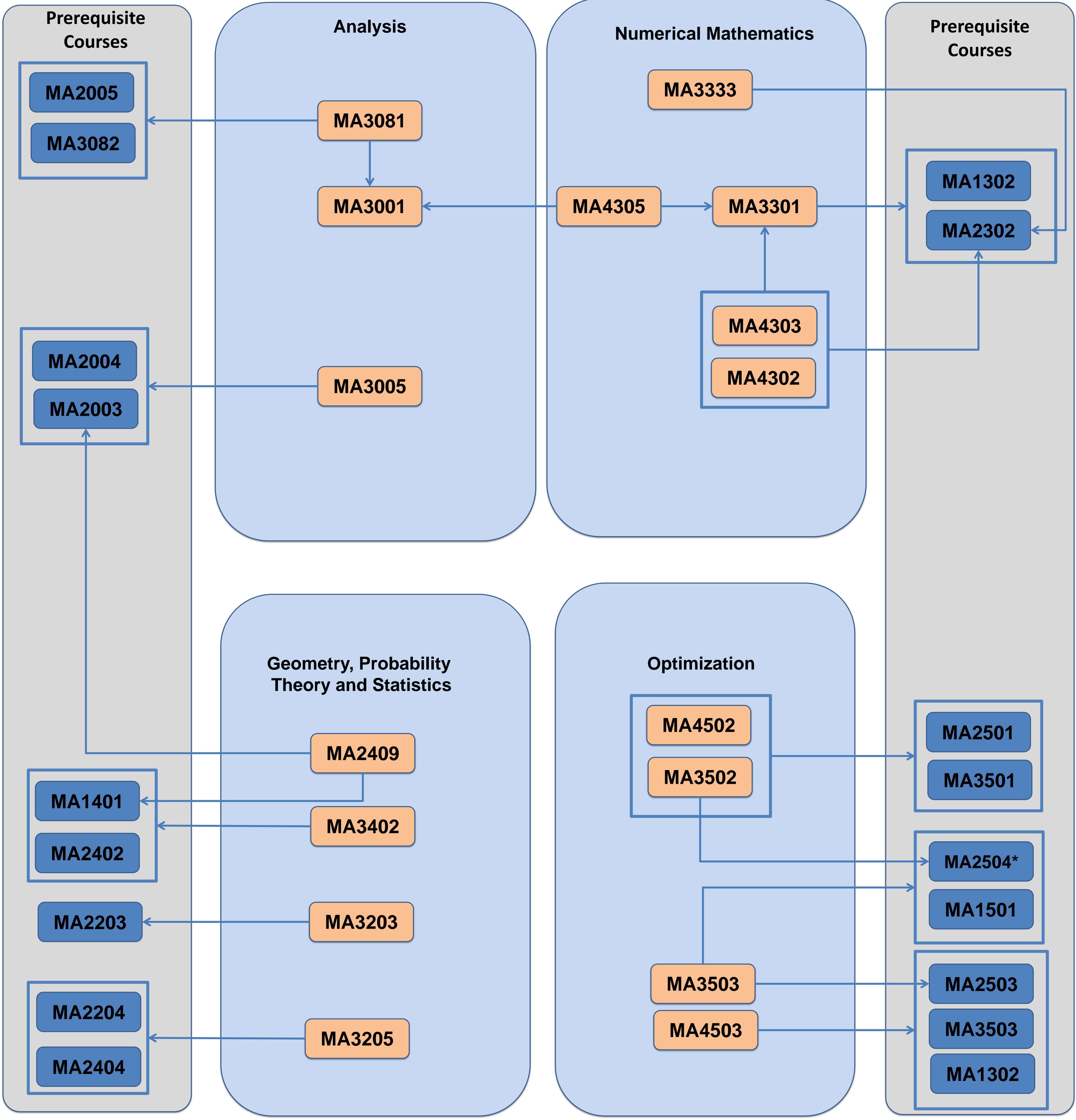
For additional information, please refer to the examination regulations and module guidelines.

* Modules, which have not been already listed in sections A1.1-A.1.4.



Course Overview

Mathematics in Science and Engineering



* In the summer term 2012 started MA2504 (previous modules are MA3501 and MA3504)