

Curriculum B-AM for cohort 2025

First year

Course code	Name	EC	Coordinator
202200140	<i>Structures and Models</i>		dr. Meinsma
202200141	Linear Structures 1	5	
202200142	Modelling and Programming 1	5	
202500460	Analysis 1	5	
202200235	<i>Structures and Systems</i>		dr. De Jong
202200236	Linear Structures 2	4	
202400660	Analysis 2	6	
202200238	Systems Theory	5	
202001342	<i>Signals and Uncertainty</i>		dr. Meinsma
202001343	Signals and Transforms	5	
202001344	Probability Theory for AM	5	
202200239	Modelling and Programming 2	5	
202200240	<i>Numerical Math & Differential Equations</i>		dr. Schlottbom
202200241	Numerical Mathematics	5	
202200242	Differential Equations	5	
202200243	Modelling and Programming 3	5	

Second year

Course code	Name	EC	Coordinator
202300015	<i>Statistics and Analysis</i>		dr. Iglesias Martínez
202500380	Mathematical Statistics 1	7	
202300017	Analysis 3	5	
202300018	Reflection 1	3	
202300025	<i>Statistics and Optimisation</i>		dr. Timmer & dr. Rattan
202300026	Mathematical Statistics 2	5	
202300027	Linear Optimisation	5	
202300028	Nonlinear Optimisation and Learning	5	
202500365	<i>Discr. Structures & Efficient Algorithms</i>		prof. Uetz
202500366	Algorithmic Discrete Mathematics	3	
202500367	Algorithms and Data Structures	3	
202500368	Languages & Machines	3	
202500369	Algebra	3	
202001362	Implementation Project on Graph Isomorphism	3	
202200335	<i>Mod. & Analysis of Stochastic Processes</i>		dr. Scheinhardt
202200336	Markov Chains	4	
202200337	Stochastic Models	4	
202200338	Stochastic Simulation	4	
202200339	Project	3	

Third year

Name	EC	
<i>Modules 9 and 10</i>		
minor profile ^a	30	
202400630 <i>Preparation BSc Thesis and Electives</i>		dr. Pérez Arancibia
202400631 Graph Theory	4	
202400632 Introduction to PDE	4	
202400633 Reflection 2 ^b	3	
<i>Master Orientation Elective (1 of 3):</i>		
202400634 Mathematics behind Data-Driven Methods	4	
202400635 Topics in Sequential Decision-Making	4	
202400636 Model Reduction	4	
202001378 <i>Finalising Bachelor's Thesis</i>		dr. Timmer
201500405 Complex Function Theory	3	
202400348 Reflection 3 ^c	2	
202001379 Bachelor's Assignment ^c	10	

^aSequence requirement 1: students may only start participating in (part of) these study units once they have gained at least 75 EC.

^bSequence requirement 2: students may only participate in this study unit once they have passed all the study units of the first two years.

^cSequence requirement 3: students may only participate in these study units once they have passed the study unit *Reflection 2*.