

# Curriculum B-AM for cohort 2022 and later

## First year

Course code	Name	EC	Coordinator
<i>202200140</i>	<i>Structures and Models</i>		dr. Mandal
202200141	Linear Structures 1	5	
202200142	Modelling and Programming 1	5	
202200143	Analysis 1	5	
<i>202200235</i>	<i>Structures and Systems</i>		dr. De Jong
202200236	Linear Structures 2	4	
202200237	Analysis 2	6	
202200238	Systems Theory	5	
<i>202001342</i>	<i>Signals and Uncertainty</i>		dr. Meinsma
202001343	Signals and Transforms	5	
202001344	Probability Theory for AM	5	
202200239	Modelling and Programming 2	5	
<i>202200240</i>	<i>Numerical Math &amp; 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
<i>202300015</i>	<i>Statistics and Analysis</i>		prof. Schmidt-Hieber
202300016	Mathematical Statistics 1	7	
202300017	Analysis 3	5	
202300018	Reflection 1	3	
<i>202300025</i>	<i>Statistics and Optimisation</i>		dr. Timmer
202300026	Mathematical Statistics 2	5	
202300027	Linear Optimisation	5	
202300028	Nonlinear Optimisation and Learning	5	
<i>202001359</i>	<i>Discr. Structures &amp; Efficient Algorithms</i>		prof. Uetz
202001360	Algorithmic Discrete Mathematics	5	
202001361	Languages & Machines	3.5	
202001361	Algebra	3.5	
202001362	Implementation Project on Graph Isomorphism	3	
<i>202200335</i>	<i>Mod. &amp; 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 <sup>a</sup>	30
<i>Module 11</i>	
Graph Theory	4
Introduction to PDE	4
Reflection 2 <sup>b</sup>	3
Master Orientation Elective	4
<i>Module 12</i>	
Complex Function Theory	3
Reflection 3 <sup>c</sup>	2
Bachelor's Assignment <sup>c</sup>	10

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<sup>a</sup>Sequence requirement 1: students may only start participating in (part of) these study units once they have gained at least 75 EC.

<sup>b</sup>Sequence requirement 2: students may only participate in this study unit once they have passed all the study units of the first two years except possibly at most 5 EC from Q3 in the second year [module 7] and at most 5 EC from Q4 in the second year [module 8].

<sup>c</sup>Sequence requirement 3: students may only participate in these study units once they have passed the study unit *Reflection 2*.