

Bachelor Applied Mathematics

First Year

Module 1	Structures and Models	15 EC
201700156		
	<i>Mathematics A and B1</i>	4 EC
	<i>Linear Structures I</i>	6 EC
	<i>Programming and Modelling</i>	5 EC
	Coordinator: B.M.Geveling	

Module 2	Mathematical Proof Techniques	15 EC
201700140		
	<i>Mathematics B2</i>	3 EC
	<i>Linear Structures II</i>	3 EC
	<i>Analysis</i>	3 EC
	<i>Linear Optimization</i>	2 EC
	<i>Project: Prooflab</i>	4 EC
	Coordinator: J. de Jong	

Module 3	Signals and Uncertainty	15 EC
201300182		
	<i>Signals and Transformations</i>	5 EC
	<i>Probability</i>	5 EC
	<i>Project: Incl. Intercultural Team Workshop</i>	5 EC
	Coordinator: A.A.Stoorvogel	

Module 4	Magnetic Fields and Electromagnetism	15 EC
201400535		
	<i>Vector Calculus</i>	5 EC
	<i>Electromagnetism</i>	5 EC
	<i>Project and Philosophy of Science</i>	5 EC
	Coordinator: J.J.W.van der Vegt	

Second Year

Module 5	Mathematical Statistics and Analysis	15 EC
201400218		
	<i>Statistics</i>	5 EC
	<i>Analysis II</i>	5 EC
	<i>Project</i>	3 EC
	<i>Presentation Skills</i>	2 EC
	Coordinator: P.K.Mandal	

Module 6	Dynamic Models	15 EC
201500103		
	<i>Differential Equations and Numerical Methods</i>	4 EC
	<i>Systems Theory and Numerical Methods</i>	4 EC
	<i>Numerical Methods Practical</i>	4 EC
	<i>Project</i>	3 EC
	Coordinator: H.G.E.Meijer	

Module 7 201600270	Discrete Structures and Efficient Algorithms	15 EC
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<i>Discrete Structures and Algorithms</i>	5 EC
<i>Algebra & Finite Automata</i>	6,5 EC
<i>Research Project: Similarity</i>	3,5 EC
Coordinator: M.J.Uetz	

Module 8 201400434	Modelling and Analysis of Stochastic Processes for Math	15 EC
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<i>Stochastic Models</i>	5 EC
<i>Stochastic Models Project</i>	1,5 EC
<i>Markov Chains</i>	2,5 EC
<i>Stochastic Simulation Project</i>	4 EC
<i>Multidisciplinary Project</i>	2 EC
Coordinator: W.R.W.Scheinhardt	

Third Year

First Semester	Minor Profile	30 EC
http://www.utwente.nl/onderwijs/keuzeruimte/minor/		

Module 11 201500379	Bachelor's Assignment	15 EC
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<p>Two of the following 4 components must be included in the student's curriculum:</p> <ul style="list-style-type: none"> <i>Graph Theory (5 EC)</i> <i>Introduction to PDE (5 EC)</i> <i>Random Signals and Filtering (5 EC)</i> <i>Mathematical Optimization (5 EC)</i> <p><i>Reflection on Mathematical research I (5 EC)</i> (this includes the beginning of Bachelor assignment)</p> <p style="text-align: right;">Coordinator: J. Timmer</p>
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Module 12 201500380	Finalising Thesis	15 EC
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<i>Complex Function Theory (3 EC)</i>
<i>Reflection on Mathematical research II (2 EC)</i>
<i>Bachelor Thesis (10 EC)</i>
Coordinator: J. Timmer