

Bachelor Applied Mathematics

First Year

Module 1	Structures and Models	15 EC
201800135		
	<i>Calculus I</i>	3 EC
	<i>Prooflab I</i>	1 EC
	<i>Linear Structures I</i>	6 EC
	<i>Project & Programming and Modelling & Intercultural workshop</i>	5EC
	<i>Coordinator: B.M.Geveling</i>	

Module 2	Mathematical Proof Techniques	15 EC
201800136		
	<i>Calculus II</i>	4 EC
	<i>Linear Structures II</i>	3 EC
	<i>Analysis</i>	3 EC
	<i>Linear Optimization</i>	2 EC
	<i>Project: Prooflab II</i>	3 EC
	<i>Coordinator: J. de Jong</i>	

Module 3	Fields and Electromagnetism	15 EC
201800137		
	<i>Vector Calculus</i>	2 EC
	<i>Prooflab III</i>	1 EC
	<i>Electromagnetism</i>	5 EC
	<i>Mathematica</i>	1 EC
	<i>Presentation Skills</i>	3 EC
	<i>Project</i>	3 EC
	<i>Coordinator: J.J.W.van der Vegt</i>	

Module 4	Signals and Uncertainty	15 EC
201800138		
	<i>Signals and Systems</i>	5 EC
	<i>Probability Theory</i>	5 EC
	<i>Project</i>	5 EC
	<i>Coordinator: A.A.Stoorvogel</i>	

Second Year

Module 5	Mathematical Statistics and Analysis	15 EC
201800139		
	<i>Statistics</i>	6 EC
	<i>Analysis II</i>	5 EC
	<i>Project</i>	2 EC
	<i>Reflection</i>	2 EC
	<i>Coordinator: P.K.Mandal</i>	

Module 6 201500103	Dynamical Systems	15 EC
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Differential Equations & Numerical Methods	4,5EC
Systems Theory & Numerical Methods	4,5EC
Numerical Methods Practical	2,25EC
Project	3,75 EC
Coordinator: H.G.E.Meijer	

Module 7 201800141	Discrete Structures and Efficient Algorithms	15 EC
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Discrete Structures and Algorithms	5 EC
Algebra & Finite Automata	6,5 EC
Research Project: Similarity	3,5 EC
Coordinator: M.J.Uetz	

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

Third Year

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

Module 11 201500379	Bachelor's Assignment & Electives	15 EC
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<i>Student's preference - two out of four Elective courses:</i>	
Graph Theory	5 EC
Introduction to PDE	5 EC
Random Signals and Filtering	5 EC
Mathematical Optimization	5 EC
Reflection on Mathematical research I	5 EC
(this includes the beginning of Bachelor assignment)	
Coordinator: J. Timmer	

Module 12 201500380	Finalising Thesis	15 EC
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Complex Function Theory	3 EC
Reflection on Mathematical research II	2 EC
Bachelor Thesis	10 EC
Coordinator: J. Timmer	