

Bachelor Applied Mathematics

First Year

Module 1 201700156	Structures and Models	15 EC
	<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 201700140	Mathematical Proof Techniques	15 EC
	<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 201300182	Signals and Uncertainty	15 EC
	<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 201400535	Magnetic Fields and Electromagnetism	15 EC
	<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 201400218	Mathematical Statistics and Analysis	15 EC
	<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 201500103	Dynamic Models	15 EC
	<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 201700304	Discrete Structures and Efficient Algorithms	15 EC
	<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
	<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
	Two of the following 4 components must be included in the student's curriculum:	
	<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>	
	<i>Reflection on Mathematical research I (5 EC)</i> (this includes the beginning of Bachelor assignment)	
	Coordinator: J. Timmer	

Module 12 201500380	Finalising Thesis	15 EC
	<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	