Bachelor Applied Mathematics

First Year

Module 1	***Structures and Models***	*15 EC*
201700156		
	Mathematics B1	*3 EC*
	Prooflab I	*1 EC*
	Linear Structures I	*6 EC*
	Project & Programming and	
	Modelling & Intercultural workshop	*5EC*
	Coordinator: B.M.Geveling	

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

Module 3	***Fields and Electromagnetism***	*15 EC*
201400535		
	Vector Calculus	*2 EC*
	Prooflab III	*1 EC*
	Electromagnetism	*5 EC*
	Mathematica	*1 EC*
	Presentation Skills	*3 EC*
	Project	*3 EC*
	Coordinator: J.J.W.van der Vegt	

Module 4	***Signals and Uncertainty***	*15 EC*
201300182		
	Signals and Systems	*5 EC*
	Probability Theory	*5 EC*
	Project	*5 EC*
	Coordinator: A.A.Stoorvogel	

Second Year

Module 5	***Mathematical Statistics and Analysis***	*15 EC*
201400218		
	Statistics	*6 EC*
	Analysis II	*5 EC*
	Project	*2 EC*
	Reflection	*2 EC*
	Coordinator: P.K.Mandal	

Module 6 *201500103*	***Dynamic Models***	*15 EC*

Differential Equations and Numerical Methods	*4 EC*
Systems Theory and Numerical Methods	*4 EC*
Numerical Methods Practical	*4 EC*
Project	*3 EC*
Coordinator:	*H.G.E.Meijer*

Module 7 *201700304*	***Discrete Structures and Efficient Algorithms***	*15 EC*

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*

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** http://www.utwente.nl/onderwijs/keuzeruimte/minor/	30 EC

Module 11 *201500379*	***Bachelor's Assignment & Electives***	*15 EC*

Student's preference - two out of four Elective courses:	
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*

Complex Function Theory	*3 EC*
Reflection on Mathematical research II	*2 EC*
Bachelor Thesis	*10 EC*
Coordinator:	*J. Timmer*