

## Transport Engineering and Management

### PROFILES

Transport Planning and Modeling					Transport and Logistics				
Profile Courses (minimum 30 EC)			EC	Quartile	Profile Courses (minimum 30 EC)			EC	Quartile
Transport Research Project (mandatory) 201100009			7,5	any	Transport Research Project (mandatory) 201100009			7,5	any
<b>at least 3 of the following 4 courses:</b>					<b>at least 22,5 EC of the following courses:</b>				
Planning and Process Management 201500097			7,5	1	Simulation (IEM; follow-up of Module 8 CiT/TBK) 191820210			5	1
Transport Modeling 201100008			7,5	2	Operations Research Techniques 1 (IEM) (2018-2019)			5	1 or 3
Land Use and Transport Interactions 201000025			7,5	3	Traffic Operations 201100005			7,5	2
Sustainable Transport 195420800			7,5	4	Mathematical Optimization in Transport 201100012			7,5	3
					Traffic Management 201100006			7,5	4
<b>Profile Electives</b>					<b>Profile Electives</b>				
- Free to choose any of the 35 CEM-courses					- Free to choose any of the 35 CEM-courses				
(pay attention to the required prior knowledge)					(pay attention to the required prior knowledge)				
- Below: list of CEM-courses that fit best in this profile (in addition to profile courses)					- Below: list of CEM-courses that fit best in this profile (in addition to profile courses)				
- Below: courses from other programmes that fit in this profile					- Below: courses from other programmes that fit in this profile				
(If you include courses from other programmes, we recommend you to make a selection, such that the majority of the programme is still formed by CEM-courses)					(If you include courses from other programmes, we recommend you to make a selection, such that the majority of the programme is still formed by CEM-courses)				
Legal & Governance Aspects 195800100			7,5	1	Supply Chain Management and ICT 191820190			7,5	1
Public Transport in urban areas 201600131			7,5	2	Statistics and Probability (IEM) 191506103			5	1
Data Science (CSC) + assignment 201400174			7,5	2 or 3	Supply Chain Finance (IEM) (2018-2019)			5	3
Mathematical Optimization in Transport 201100012			7,5	3	Public Transport in urban areas 201600131			7,5	2
Infrastructure Management 195820500			7,5	4	Data Science (CSC) + assignment 201400174			7,5	2 or 3
					Transportation and Logistics (IEM) (2018-2019)			5	3
					Sustainable Transport 195420800			7,5	4
					Operations Research Techniques 2 (IEM) (2018-2019)			5	4
					Planning and Scheduling (IEM)			5	4
					Warehousing (IEM)			5	4
Policy Instr and Evaluation in Environ+Sust. (PA) 194106100			5	3	Discrete Optimization (AM) 191581100			6	1
Policy Analysis in Public & Technol.Domains (PA) 201100077			5	1	Cognition and Technical Systems (PSY)			5	1 or 3
Methods of Sustainability Assessment (PA) 201100073			5	1	Optimization Modelling (AM) 191581420			6	3
Statistics and probability (IEM) 191506103			5	1	Scientific Computing (AM) 191551200			6	3
Simulation (IEM; follow-up of Module 8 CiT/TBK) 191820210			5	1	Human Computer Interaction (PSY)			5	3
Cognition and Technical Systems (PSY)			5	1 or 3	Stochastic Models (part of module 8, BSc-TW) 201400434			± 6	4
Electric Vehicle System Design (IDE) 201500009			5	2	Markov Chains & Stoch.Sim. (part mod 8, BSc-TW) 201400434			± 6	4
Public Governance & Policy Networks (PA) 194111240			5	3					
Energy, Sustainability and Society (SET)			5	3					
Human Computer Interaction (PSY)			5	3					

### GENERAL COURSES

Free Electives (max 15 EC)			EC	Quartile	Free Electives (max 15 EC)			EC	Quartile
Any course from UT or approved other university*					Any course from UT or approved other university*				
<b>Thesis **</b>			<b>EC</b>	<b>Quartile</b>	<b>Thesis **</b>			<b>EC</b>	<b>Quartile</b>
Preparation Master Thesis			7,5	-	Preparation Master Thesis			7,5	-
Master Thesis Traffic			30	-	Master Thesis Traffic			30	-

### PLANNING AND CONSULTATION FOR THE MASTER PROFILES

Track-coordinator: prof. dr. ir. Eric van Berkum  
Coordinator Master Theses: prof. dr. ir. Eric van Berkum

\* an "approved university" is any university in The Netherlands (not HBO-schools), or any international university that is partner of the UT or of the faculty of ET.

[Click here for a list of partner universities](#)

For courses from other universities: contact your track-coordinator.

The Free Electives should be at MSc-level and should have no overlap with other courses in your programme.

\*\* [Click here for the procedure of how to start the course Preparation Master Thesis and your MSc-thesis project](#)