



<b>Title</b>	<b>WUUEM Urban Environmental Management</b>
<b>Introduction</b>	<p>More than half of the world population now lives in urban centres around the world. Securing a safe and healthy urban environment is becoming increasingly important, but at the same time, cities are major nodes in the global networks of consumption and production responsible for utilising the biggest shares of the world's fossils and natural resources. The BSc Minor Urban Environmental Management introduces the core disciplines (Technology, Policy, Land Use Planning) and issues of Urban Environmental Management to BSc students of various disciplines from within and outside Wageningen University. The scope of the minor is limited to the 'grey' area of environmental management: the management of environmental flow streams like water, waste and energy in and between cities and industries; the technologies and infrastructures accommodating these flows; the stakeholders using, regulating and managing the flows; and urban spatial planning. The minor introduces urban technological principles and its social implications, policy options and planning approaches for managing the urban environment.</p> <p>Successful completion of the minor would offer BSc students other than Environmental Sciences / Milieuwetenschappen access to the MSc Urban Environmental Management study programme.</p>
<b>BSc Minor coordinator</b>	<p>Bas van Vliet          Phone: +31 (0)317 48 24 73          E-mail: <a href="mailto:bas.vanvliet@wur.nl">bas.vanvliet@wur.nl</a></p>
<b>Learning outcomes</b>	<p>After successful completion of this minor students are expected to be able to:</p> <ul style="list-style-type: none"> <li>- analyse the dynamics of industrialised societies, particularly concerning the transitions in urban environmental infrastructures (e.g. energy, water, waste);</li> <li>- explain the basic principles of urban environmental technology and tools of environmental management;</li> <li>- develop feasible policy and management options with regard to urban environmental management on the basis of selected theories, concepts and tools;</li> <li>- describe and motivate the possible contribution of environmental technology to a sustainable industrial development and society;</li> <li>- make plans and socio-technical scenarios towards sustainability in urban contexts;</li> <li>- evaluate and reflect upon existing as well as their own long-term strategies and planning practices towards 'sustainability' in urban environmental systems;</li> <li>- understand the central concepts of spatial planning and their applications;</li> <li>- reflect on personal action and thinking;</li> <li>- work in (multi or interdisciplinary) teams;</li> <li>- present results of experimental research and desk study.</li> </ul>



<b>Courses</b>	<b>Code and name of the courses</b>	<b>Period, MO/AF</b>	<b>CS or RO</b>
1.	ENP-20806 Environmental Management and Industry	1 MO	CS
2.	ETE-22806 Principles of Urban Environmental Management	1 AF	CS
3.	ETE-25306 Basics of Urban Environmental Technology	2 MO	RO
4.	ENP-23806 Sustainability Transitions; concepts, indicators and issues	2 MO	RO
5.	LUP-23806 Planning for Liveable Cities	2 AF	CS
<b>RO information</b>	Students with a social sciences background choose ETE-25306. Students with a natural sciences background choose ENP-23806.		
<b>Target group</b>	Wageningen University students: BIN, BIL, BAT, BBC, BGM, BLP, BBW, BEB. Non-WU BSc Environmental Sciences, Geography, Planning.		
<b>Not for</b>	BMW		