

<b>Module code</b>	<b>MBI 2940</b>
<b>Module title</b>	Waste management
<b>Degree program</b>	Master Civil Engineering
<b>Faculty</b>	Civil Engineering and Conservation/Restoration

<b>Module supervisor</b>	Prof. Dr.-Ing. C. Springer
<b>Type of module</b>	Elective module
<b>Frequency</b>	1 x annually in the summer semester
<b>Standard/recommended semester</b>	1 <sup>st</sup> semester of study
<b>Credits (ECTS)</b>	2
<b>Assessment</b>	<ul style="list-style-type: none"> <li>• Colloquium with an individual specialist presentation</li> <li>• Assessed on a pass/fail basis</li> </ul>
<b>Language of instruction</b>	English
<b>Admission requirements</b>	None
<b>Module is a requirement for</b>	-
<b>Module duration</b>	1 semester
<b>Mandatory registration</b>	Maximum number of participants restricted; register on Moodle

Course	Lecturer	Type	No. of students (max.)	No. of courses	Contact hours	Workload (in h)		
						Face-to-face	Self-study	
Waste management	Prof. Springer	Seminar	15	1	2	30	30	
					total	2	30	30
<b>Workload for the module</b>						<b>60</b>		

<b>Learning objectives</b>	An understanding of cultural and economic framework conditions is conveyed. Against this background, the basics of waste management and corresponding technical planning are taught. The aim is to master adapted technical solutions for the collection and transport, recycling and treatment of waste under various economically, culturally and climatically induced conditions. The students should acquire the ability to weigh up what is economically feasible against what is ecologically necessary.
<b>Course contents</b>	Insight is given into environmental conditions and the cultural, social and economic environments in different countries. For this purpose, technical solutions are shown that meet these specific requirements. In detail: Socio-economic environment, waste quantities and compositions, organization of waste management, technical solutions for collection, transport and treatment, planning processes, structural models, refinancing models and waste management concepts.
<b>Literature</b>	Vorlesungen und Vorlesungsskripte sowie W. Bidlingmaier et al: Waste management in economically developing countries.