



## COURSE DATASHEET

<b>Semester:</b>	2013/14/1
<b>Course:</b>	Ecology
<b>Code:</b>	VEMKKVB1120
<b>Responsible department:</b>	Department of Limnology
<b>Department code:</b>	MKLI
<b>Responsible instructor:</b>	András Ács

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### Course objectives:

Overview on the principles of ecosystem functioning. Students should be able to apply theoretical knowledge in engineering work such as constructed wetlands or bioremediation. Should also be able to prepare an ecological impact assessment, to design and operate biomonitoring systems.

### Course content:

? Bioindication and its application in environmental impact assessments ? Biomonitoring: design and operation of systems ? Algorithm of the ecological impact assessment ? Structure and functioning of ecosystems. Resistance, resilience. ? Ecological engineering: constructed wetlands. ? Assessment of large-scale ecological changes. ? Case studies

### Requirements, evaluation and grading:

Examination

### Required and recommended readings:

Begon-Harper-Townsend: Ecology Blackwell Scientific Publications, Oxford, 1986  
Hayward: Applied Ecology Nelson, London, 1992