Minor Water System Analysis - AWSA Coordinator: LAC Credits: 15

Elements	ECTS	Name	Mode of Exam	Exam Period	Literature
AWSA01	6	Assessment	Assessment	T2	Holden, J. 2017. An introduction to physical geography and the environment. Harlow UK, Pearson Education Limited. ISBN 9781292083575
AWSA02	4	Water System Modelling and GIS Techniques	Portfolio	T2	
AWSA03	5	Water System Theory	Written Exam	T2	Practical guides and additional documents will be provided on Canvas

Entrance requirements:	Standard requirements for all international students (min. 180 EC background in relevant field of study, appropriate level of English)		
Professional task:	During this module the student will describe different scenarios for a water system based on geophysical features and possible future changes (e.g. due to climate change, hydro morphological changes, land-use changes) to be used as preparation study for area redevelopment.		
Role:	Eco hydrologist		
Methods:	Lectures, trainings, assignments, excursions, fieldwork, teamwork and self-study.		
Fields of expertise:	Learning objectives (the student):		
Water systems	 internalises water system thinking: the student is able to naturally analyse the relations in the system between different elements and on different temporal and spatial scales 		
	 is able to understand professional and scientific literature about water systems and select information relevant for his or her own use. 		
	 is able to produce comprehensive maps that serve water system analysis. is able to set up a water and substance balance and use them to evaluate changes 		

Aeres competencies

- 2. To cooperate
- 4. To research
- 6. To organise
- 9. To endorse sustainable behaviour
- 10. To appreciate the global perspective

Final qualifications

This minor meets the following final qualifications from the bachelor programme of Applied Biology:

- 3. Appreciate knowledge of biological specialisation, apply latest developments and obtain new knowledge.
- 4. Being able to work on a biological problem in a project-based approach.
- 5. Have insight in own functioning within the biological field, show sustainable behaviour and be able to justify one's actions within this field.