

- Faculté des sciences
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Water resource management in the European context (3GH2183)

Filières concernées	Nombre d'heures	Validation	Crédits ECTS
Master en hydrogéologie et géothermie (*)	Cours: 20 pg	Voir ci-dessous	4

ph=période hebdomadaire, pg=période globale, j=jour, dj=demi-jour, h=heure, min=minute

Période d'enseignement:

- Semestre Automne

Equipe enseignante:

Daniel Hunkeler, Philip Brunner, external experts

Objectifs:

The course has the following objectives:

- become familiar with the conceptual framework of water resources management
- get to know common strategies and most important measures to protect water resources.
- understand the principles of the Swiss and European legislation regarding water resources management

Contenu:

- Introduction to water resources management and strategies for protecting water resources
- Overview of the European Water Framework Directive (WFD) and the Groundwater Directive (GD)
- Overview of Swiss legislation regarding water resources and especially groundwater
- Strategies for managing and protecting water resources (Vulnerability mapping, capture zones, protection zones)
- Transboundary aquifers

Forme de l'évaluation:

CC continue: Marked exercises. If the minimal requirements are not met an oral exam (15 min) will be organized within 4 week after the written exam.

Documentation:

Handouts of presentations, documentation

Pré-requis:

Introduction to hydrogeology

Forme de l'enseignement:

Theory and corresponding exercises are presented and solved during the course
Case study in small groups on how to define a well-head protection zone

(*) Cette matière est combinée avec d'autres matières pour l'évaluation