

- Faculté des sciences
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Urban hydrogeology (3GH2187)

Filières concernées	Nombre d'heures	Validation	Crédits ECTS
Master en hydrogéologie et géothermie (*)	Cours: 20 pg	Voir ci-dessous	6

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

Période d'enseignement:

- Semestre Automne

Equipe enseignante

Mario Schirmer

Contenu

- Introduction to urban hydrogeology: urban water fluxes, water balance, urban contamination and micropollutants, flux calculations, surface water ↔ groundwater interactions
- discussion of method to calculate groundwater travel times between rivers and monitoring wells
- case study of hydrocarbon accident with site investigation and remediation technologies
- exercises

Forme de l'évaluation

CA graded.

Course assignments.

In case of failure at the course assignments, the students will do an oral test of 15 minutes on a date defined by the teacher.

Documentation

- course notes as handouts
- solutions to all exercises available on request

Pré-requis

basic calculus and physics

basic understanding of hydrogeological investigation techniques

basic geology

Forme de l'enseignement

Theory and corresponding exercises are presented and solved during the course

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