

- Faculté des sciences
- www.unine.ch/sciences

Tracer methods in hydrogeology (3GH2210)

Filières concernées	Nombre d'heures	Validation	Crédits ECTS
Master en hydrogéologie et géothermie	Cours: 28 pg	Voir ci-dessous	3

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

Période d'enseignement:

- Semestre Printemps

Equipe enseignante

Daniel Hunkeler

Contenu

The course covers environmental and artificial tracer methodologies focusing on the following aspects:

- Environmental tracer (stable/radioactive isotopes, atmospheric trace gases) methodologies and groundwater dating
- Conservative and reactive artificial tracer methodologies
- Selection of tracers
- Laboratory and field methods for tracer analysis
- Planning of tracer tests
- Evaluation of tracer data

Forme de l'évaluation

Written exam, 1 hour in the exam session
Repetition: Written exam, 1 hour in one of the subsequent exam sessions

Documentation

Cours notes
Scientific articles

Pré-requis

Groundwater Chemistry and Microbiology Course

Forme de l'enseignement

Course and exercise
Case studies
Laboratory visit