

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

Introduction to hydrogeology and hydrology (3GH2159)

Filières concernées	Nombre d'heures	Validation	Crédits ECTS
Master en hydrogéologie et géothermie (*)	Cours: 30 pg	écrit: 3 h	8

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

Période d'enseignement:

- Semestre Automne

Equipe enseignante:

Philip Brunner

Objectifs:

The course will provide an overview of basic hydrological and hydrogeological processes and methods and discusses the importance of groundwater in the hydrologic cycle

Contenu:

- Introduction to hydrology : Water balance approaches, rainfall runoff relations, measurement approaches for the key components of the hydrologic cycle
- Introduction to hydrogeology: Groundwater systems, hydraulic heads, porosity, groundwater flow equation

Forme de l'évaluation:

3 hours written exam (together with "Mathématiques et statistique" and "Introduction to geothermics") . If the exam is not passed, a new written exam will be organised for the next exam session.

Documentation:

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

Pré-requis:

basic calculus and physics
basic understanding of earth systems sciences
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