

- Faculté des sciences
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Introduction to hydrogeology and hydrology (3GH2159)

Filières concernées	Nombre d'heures	Validation	Crédits ECTS
Master en hydrogéologie et géothermie (*)	Cours: 30 pg	Voir ci-dessous	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