

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

Hydrogeological modelling (3GH2217)

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 Automne

Equipe enseignante

Prof. Philip Brunner and Dr. Landon Halloran

Contenu

This course provides a theoretical and practical introduction to hydrogeological modelling. Students will learn about numerical modelling techniques relevant for groundwater modelling and will gain practical experience in creating numerical models and using them to make hydrogeological investigations.

Forme de l'évaluation

Evaluation takes the form of a project. Students will create a finite element model based on real topographical, geological and hydrological data of their choosing. They will use this model to perform a scenario-based study. They will present a "walk-through" of the model and results and submit a report (~1000 words + figures) responding to pre-defined questions.

Modalités de rattrapage

Students who do not pass the project evaluation will have to submit and present an improved model and report within 3 weeks of receiving their evaluation.

Documentation

Slides from presentations and tutorials will be shared via Moodle. Necessary support files for tutorials will also be made available.

Forme de l'enseignement

A combination of lectures, guided computer-based activities, and independent computer-based activities (with support during class hours).