

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

Numerical modelling of transport and geomechanical processes I (3GH2224)

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

S. Miller

Contenu

Programming in MATLAB the numerical solutions of elliptical, parabolic, and hyperbolic equations. Students write their own code, solve the problems, and visualise the results. Numerous physical problems are discussed in the context of the governing partial differential equations.

Forme de l'évaluation

In class exam. CA.

Modalités de rattrapage

Students are required to understand all of the lectures, whether they were physically present or not.

Documentation

Powerpoint lectures.

Pré-requis

Geodynamics, Earthquake Physics, and Geothermics

Forme de l'enseignement

lectures and in-class exercises