

- Faculté des sciences
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Scientific method and communication (3GH2204)

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

Dr. L. Halloran
Prof. S. Miller

Contenu

Goals:

- Acquire proficiency in dissecting, structuring, and reporting scientific information in various formats.
- Understand how to report scientific content with:
 - o Proper document structure (IMRAD and variants)
 - o Sound logic and effective sentence/paragraph structure
 - o Critiquing and being critiqued

Topics:

- In the course, we discuss, analyse, and differentiate between several types of written scientific output:
 - o Poster
 - o Journal Articles (various types)
 - o Review Essay
 - o Opinion Paper
 - o Grant/Scholarship Applications
 - o MSc., Ph.D. theses
 - o Response to Reviewers
 - o Cover Letters
 - o Technical Reports

We also discuss effective techniques for visual and oral communication of results.

Forme de l'évaluation

Students submit a review paper and presentation on a topic related to hydrogeology or geothermics. The project is completed in small groups and the length is decided based on group size. The submitted document should be prepared in the style and formatting of a review article that one can find in the scientific literature.

Modalités de rattrapage

An additional writing assignment, decided in consultation with the professors.

Documentation

Presentations + example documents of various formats.

Forme de l'enseignement

- Formal teaching
- writing sessions,
- presentations,
- peer assessment and feedback,
- o in groups and individually

Reading published scientific material and, by means of various writing and peer assessment exercises, gain expertise in producing your own scientific output. Work performed individually and in groups to read, write, and assess own and others' work.

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