

- Faculté des lettres et sciences humaines
- www.unine.ch/lettres

Methods in cognitive science I (2LN2316)

Filières concernées	Nombre d'heures	Validation	Crédits ECTS
Master en sciences cognitives	Cours: 6 ph	Voir ci-dessous	6

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

Période d'enseignement:

- Semestre Automne

Equipe enseignante

Jennifer McClung
Radu Slobodeanu

Contenu

The first part of the course will cover both the principles of experimental design as well as a range of research methods used in the cognitive sciences, all with the aim that students learn how to conduct their own research. A variety of observational and experimental methods used in different areas of cognitive science will be discussed and practically employed. Methods analysed will include: storytelling, inter-personal synchrony, questionnaires, eye-tracking, ethograms, acoustic analysis, and the minimal group paradigm. We will analyse classic and current studies based on these methods in terms of their experimental design and statistical approach, and students will be required to use said methods to design their own experiments, which will be presented and discussed in class.

The second part of the course will cover data management and analysis using R. The course will provide an introduction to graphical presentation of data and statistical inference, including correlation, analysis of variance, non-parametric methods, (mixed effects, generalized) linear models and ordination methods.

Forme de l'évaluation

- Methods essay (graded, 50%)
- Assessment based on exercises in statistics and data management (graded, 50%)
- Final class presentation (pass/fail)

NB: work that is not submitted by the required deadline, without good cause, will not be accepted and will automatically result in a fail for that given assessment.

Modalités de rattrapage

Reexamination next session, same year, must be organized directly with the professor (not in Pidex, please contact the professor).

Pré-requis

It is strongly recommended to get familiar with R programming, using the following freely available online courses:

<https://www.datacamp.com/courses/free-introduction-to-r>

<https://www.codecademy.com/learn/learn-r>

<https://swirlstats.com/students.html>

Forme de l'enseignement

Lectures, methods and data practicals