

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

Data Management (5AF2027)

Filières concernées	Nombre d'heures	Validation	Crédits ECTS
Master en finance	Cours: 2 ph	cont. continu	3

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

Période d'enseignement:

- Semestre Automne

Equipe enseignante:

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Objectifs:

- Understanding the basic concepts of structured programming.
- Being able to use basic data structures.
- Developing basic programs to extracting, transforming and loading data.
- Being able to select the appropriate tools chain for a given problem.
- Developing simple solutions for managing data in the context of research applications.
- Developing robust and maintainable solutions of data maintenance in the business context.

Contenu:

- A basic introduction into programming using the Python language.
- Definition and use of the main data structures.
- Advanced data manipulation for further analysis.
- Interfacing with analysis tools such as R and Matlab.

Forme de l'évaluation:

2-hour written exam during the last lecture of the semester (100%).
Re-take exam (August-September): 2-hour written exam (100%).

Documentation:

- "Learning Python, 5th Edition", Mark Lutz, O'Reilly Media, June 2013.
- "Structured Query Language (SQL) - A Practical Introduction", 1994, NCC Blackwell. Aaron Skonnard and Martin Gudgin.

Forme de l'enseignement:

Lectures: 2 hours per week.