

- 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
Master en finance, orientation analyse financière (avant 2013)	Cours: 2 ph	cont. continu	3
Master en méthodologie d'enquête et d'opinion publique	Cours: 2 ph	cont. continu	3
Master en sciences économiques, orientation politique économique	Cours: 2 ph	cont. continu	3
Master en statistique	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 different sources and formats of data.
- Knowing the basic concept of extracting, transforming and loading data.
- Being able to select the appropriate tools for a given set of data.
- 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:

- Text files for data management: CSV, XML and JSON files.
- Script languages for reading, manipulating and exporting data.
- Advanced data manipulation: data models and SQL.

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:

Jerry Lee Ford, Jr.: "Microsoft Windows PowerShell Programming for the Absolute Beginner", 2007, Thomson.
AKEEL DIN, "Structured Query Language (SQL) - A Practical Introduction", 1994, NCC Blackwell.
Aaron Skonnard and Martin Gudgin, "Essential XML Quick Reference", 2003, Addison-Wesley, Boston.

Forme de l'enseignement:

Lectures: 2 hours per week.