

- Faculté des sciences économiques
- [www.unine.ch/seco](http://www.unine.ch/seco)

## Programming (5AF2029)

Filières concernées	Nombre d'heures	Validation	Crédits ECTS
<b>Master en finance</b>	<b>Cours: 2 ph</b>	<b>oral: 15 min</b>	<b>3</b>
<b>Master en méthodologie d'enquête et d'opinion publique (avant 2015)</b>	<b>Cours: 2 ph</b>	<b>oral: 15 min</b>	<b>3</b>
<b>Master en sciences économiques, orientation politique économique</b>	<b>Cours: 2 ph</b>	<b>oral: 15 min</b>	<b>3</b>
<b>Master en statistique (avant 2015)</b>	<b>Cours: 2 ph</b>	<b>oral: 15 min</b>	<b>3</b>

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

### Période d'enseignement:

- Semestre Printemps

### 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 an up to date IDE.
- Definition and use of the main data structures.
- Advanced data manipulation for further analysis.

### Forme de l'évaluation:

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

### Documentation:

To be announced

### Forme de l'enseignement:

Lectures: 2 hours per week.