

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

Programming (5AF2029)

Filières concernées	Nombre d'heures	Validation	Crédits ECTS
Master en développement international des affaires	Cours: 2 ph	Voir ci-dessous	3
Master en économie appliquée	Cours: 2 ph	Voir ci-dessous	3
Master en finance	Cours: 2 ph	Voir ci-dessous	3
Master of Science en innovation	Cours: 2 ph	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

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Contenu

Basics of programming with Python

- Fundamentals of programming and specifics of Python
- Variables and fundamental data types
- Control structures
- Advanced data types
- Basic structured programming
- Basic object-oriented programming
- Basic input/output

Forme de l'évaluation

Written exam on a computer during session.

- The exam takes place on a computer provided by the university
- Duration: 120 minutes.
- Open book: all documentation of the course available, including personal notes
- No personal electronic device
- No access to the Internet, i.e. no online documentation, forums etc.
- No interaction with any AI assistant
- No communication with any third party"

Failure to conform to these rules will result in a failed exam.

Modalités de rattrapage

Same modalities as the exam, during the retake session of the faculty.

Documentation

In-house course material and exercises
Online ressources

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Pré-requis

Experience in any programming language is a plus, but is not necessary.

Forme de l'enseignement

Mixed lectures and coached sessions in class.

Objectifs d'apprentissage

Au terme de la formation l'étudiant-e doit être capable de :

- Identify the basic concepts of structured programming
- Use basic data structures
- Select appropriate algorithmic approaches to solve problems
- Develop simple solutions for managing data in the context of research applications
- Develop basic programs to manipulate and analyse data
- Justify the steps necessary for solving a problem
- Explain the algorithm solving strategy
- Analyse simple algorithms
- Explore additional documentation for solving a specific problem in an independent manner

Compétences transférables

- Apply knowledge to new situations
- Design projects
- Discuss complex issues