- 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 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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Email eric.simon@unine.ch

Contenu

Basics of MATLAB programming:

* Introduction
* Variables, Constants, Keywords
* Data Types
* Vectors and Matrices
* Operators and functions
* Logical vectors/matrices
* Scripts and Functions
* Conditional Statements
* Loop statements
* String manipulation
* Plotting Functions
* Advanced user-defined functions
* Performance considerations

Forme de l'évaluation

2-hour exam on the computer during session.
During the evaluation:
- The solution shall be produced exclusively on the computers provided by the university in the computer lab. No personal device will be allowed.
- The solution shall be submitted in Moodle in time in the form required: MATLAB scripts
- All documentation deemed necessary is accepted, including online resources.
- All personal connected objects (smartphones, watches, tablets, etc.) are forbidden. All communication by any mean is also forbidden.
In case of violation of these rules, the students are in a situation of fraud. The unauthorized items will be removed and the student denounced. The exam could be deemed as failed.

Modalités de rattrapage

Identical to the above

Documentation

In-house course material and exercises

Pré-requis

None

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Forme de l'enseignement

Mixed lectures and practical exercises 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 algorthm 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