

## CCNM17-113: Computer Programming Course Description

### Aim of the course

**Aim of the course:** Students will be able to write and modify simple scripts, to run experiments, analyze data and simulate models.

### Learning outcome, competences

knowledge:

- write and modify simple scripts
- run experiments

attitude:

- comprehensive practical interest

skills:

- experimental designs

### Content of the course

#### Topics of the course

- - Bases of computer programming
- - Python and Matlab
- - Experimenting software use: OpenSesame and PsychoPy
- - Data analysis with Python: numpy, pandas, scipy, statsmodels, matplotlib
- - Simple simulations with Python

### Learning activities, learning methods

Lectures and practical

### Evaluation of outcomes

#### Learning requirements, mode of evaluation, criteria of evaluation:

requirements

- attendance
- designing Python scripts, analysis or simulation

mode of evaluation: examination and practical course mark

criteria of evaluation:

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### Reading list

#### Compulsory reading list

- Relevant documentation and tutorials of the programming languages and software
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#### Recommended reading list

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