UCL Faculté des sciences

SC

SC1251	Compléments de programmation

[15h] 1 credits

This course is taught in the 2nd semester

Teacher(s):	Marcel Lebrun
Language:	french
Level:	1st cycle course

Aims

The main objective is problem-solving by using computer tools. The course is to be considered as a workshop where students deepen their knowledges about computing languages (mainly Pascal), programs libraries and scientific softwares tools.

Main themes

- Complements about procedures and functions
- Files and transfer
- Programs libraries
- Integrating softwares and approaches

Project-based learning is the main method used in this course. As examples, we mention : simulating diffraction patterns, friction modelisation, Monte-carlo simulation in particles diffusion, elaborating statistical tables and probabilistic events, programming numerical methods, etc.

Content and teaching methods

The course objective is the development by students of their programming skills using computing languages, softwares like spreadsheets and scientific simulations tools. The course is organised as a workshop where students develop their own projects mainly based on others lectures (mathamatics, physics #).

Other credits in programs

MATH12	Deuxième candidature en sciences mathématiques	(1 credits)
PHYS12	Deuxième candidature en sciences physiques	(1 credits)