Course: Introduction Programming in Python — credits: 5

Course code	LSVX23PYTHON
Name	Introduction Programming in Python
Study year	2025-2026
ECTS credits	5
Language	Dutch, with parts in English
Coordinator	-
Modes of delivery	Assignment Tutorial
Assessments	Introductie Programmeren in Python - Other assessment

Learning outcomes

You can translate a simple case study into a programme design and a set of functions to be implemented.

You write code using appropriate data types, flow control elements and functions. You make good use of documentation and help functionality. You use comprehensions and regular expressions where necessary.

You can debug and analyse your own code, using debugger and other techniques.

You can use the Python module system and create and deploy your own modules.

You understand the object-oriented nature of Python and can create and deploy a simple object-oriented design yourself.

Content

In this module, you will be introduced to programming. We use the Python programming language because it is an easy and very versatile programming language.

All aspects of programming are covered: working with data from files, creating functions, performing explorations and writing stand-alone terminal programmes.

In the first 2 weeks, you learn all the theory and techniques. In the last week, you use these to develop your own programme for a final assignment. You think up this final assignment yourself, or choose one given by the teacher.

Included in programme(s)

Major Biology and Medical Research
Bio-Informatics
Chemistry
Major Medical Diagnostics
Chemical Engineering

School(s)

Institute for Life Science & Technology

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