



Exchange programme Vrije Universiteit

Vrije Universiteit Amsterdam - Exchange programme Vrije Universiteit - 2022-2023

Exchange

Vrije Universiteit Amsterdam offers many English-taught courses in a variety of subjects, ranging from arts & culture and social sciences, neurosciences and computer science, to economics and business administration.

The International Office is responsible for course approval and course registration for exchange students. For details about course registration, requirements, credits, semesters and so on, please [visit the exchange programmes webpages](#).

Project Big Data

Course Code	X_400645
Credits	6.00
Period	P6
Course Level	300
Language Of Tuition	English
Faculty	Faculty of Science
Course Coordinator	dr. A. Zocca
Examiner	dr. A. Zocca
Teaching Staff	dr. A. Zocca
Teaching method(s)	Study Group, Lecture

Course Objective

After completing this course:

1. the student can import, transform, filter, and explore data
2. the student can import and process static and streaming data in Python
3. the student can store and retrieve semi-structured data in and from a database
4. the student can parallelize tasks via MapReduce, threads and/or queues in Python
5. the student can create appropriate and well-formatted visualizations and tables
6. the student can address a research question and report on their findings

Course Content

This course aims to integrate various aspects involved with data science and to teach the fundamentals of working with big data. Topics include visualization of data; preparing data for processing (machine learning or data mining); storing unstructured data; and scaling techniques for working with big volumes of data. Python is used throughout this hands-on course.

Additional Information Teaching Methods

Lectures and Q&A sessions

Method of Assessment

Hand-in assignments, presentation, and a report. The weights will be specified on Canvas; the weighted average needs to be 5.5 or higher. There is no resit for this course.

Entry Requirements

Programming experience in any language

Additional Information Target Audience

2BA