COURSE DETAIL

INTRODUCTION TO COMPLEX SYSTEMS
Country Netherlands
Host Institution Utrecht University
Program(s) Utrecht University
UCEAP Course Level Lower Division
UCEAP Subject Area(s) Computer Science
UCEAP Course Number 11
UCEAP Course Suffix
UCEAP Official Title INTRODUCTION TO COMPLEX SYSTEMS
UCEAP Transcript Title INTRO:COMPLEXSYSTEM
UCEAP Quarter Units 6.00
UCEAP Semester Units 4.00

Course Description

Complex Systems consist of many interacting constituents and their collective behavior, such as the brain, cities, climate, ecosystems, economy, and traffic. While these systems seem vastly different on first sight they share many features. To familiarize students with all properties of complex systems , this course consists of three pillars: network theory, evolution in spatially extended ecosystems, and collaboration. The course uses computer models to study conflict of interest. This course uses computer programs coded in Python, although working knowledge in Python is not a prerequisite. Each of the three parts concludes with an exam and hand-in exercises. The course concludes with a report written over a small project carried out in a group.

Language(s) of Instruction
English

Host Institution Course Number
BETA-B1CS

Host Institution Course Title
INTRODUCTION TO COMPLEX SYSTEMS

Host Institution Course Details
https://osiris-student.uu.nl/#/onderwijscatalogus/extern/cursus?taal=en

Host Institution Campus
Undergraduate School Bètawetenschappen

Host Institution Faculty
Faculty of Science

Host Institution Degree

Host Institution Department

Course Last Reviewed
2021-2022

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