

COURSE DETAIL

DISCRETE MATHEMATICS

Country

Netherlands

Host Institution

Maastricht University - University College Maastricht

Program(s)

University College Maastricht

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Mathematics

UCEAP Course Number

103

UCEAP Course Suffix**UCEAP Official Title**

DISCRETE MATHEMATICS

UCEAP Transcript Title

DISCRETE MATH

UCEAP Quarter Units

6.00

UCEAP Semester Units

4.00

Course Description

In this course students learn the what the following fundamental concepts involve: numbers, a.o. integers, natural numbers, real numbers and prime numbers and properties that these classes of numbers have; logic, drawing conclusions and how to use logic to prove mathematical statements; sets, properties of sets and concepts related to sets, like intersections, and unions; mathematical relations, a comparing mechanism for elements in a set, several relations and their properties; functions, mapping from one set to another, properties of functions, like invertibility; combinatorics, the science of smart counting, permutations and combinations. Almost every time mathematics is used, it concerns some of the above concepts. Students who are interested in (applied) mathematics, computer science and/or econometrics might find this course particularly useful.

Language(s) of Instruction

English

Host Institution Course Number

SCI2002

Host Institution Course Title

DISCRETE MATHEMATICS

Host Institution Campus

University College Maastricht

Host Institution Faculty

Host Institution Degree

Host Institution Department

Science

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