COURSE DETAIL

UCEAP Semester Units

DISCRETE MATHEMATICS Country Spain **Host Institution** Carlos III University of Madrid Program(s) Carlos III University of Madrid **UCEAP Course Level Upper Division UCEAP Subject Area(s)** Mathematics **UCEAP Course Number** 102 **UCEAP Course Suffix** Е **UCEAP Official Title DISCRETE MATHEMATICS UCEAP Transcript Title DISCRETE MATH UCEAP Quarter Units** 5.00

Course Description

This course offers an introduction to discrete mathematics and its applications to computer science. Topics include set theory, binary relations, lattices, elementary counting techniques, recurrence, linear recurrence equations, the generating function and its relevance in combinatorics and recurrence problems, graph theory, modeling, algorithms, ordering and enumerations problems, equivalence relations. Previous coursework in calculus and algebra is required.

Language(s) of Instruction

English

Host Institution Course Number

15971

Host Institution Course Title

MATEMÁTICA DISCRETA

Host Institution Campus

Escuela Politécnica Superior. (Leganés)

Host Institution Faculty

Host Institution Degree

Host Institution Department

Ciencia e Ingeniería de Materiales e Ingenieria Química

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