

# COURSE DETAIL

## 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**

E

**UCEAP Official Title**

DISCRETE MATHEMATICS

**UCEAP Transcript Title**

DISCRETE MATH

**UCEAP Quarter Units**

5.00

**UCEAP Semester Units**

3.30

### **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 Course Details**

### **Host Institution Campus**

Escuela Politécnica Superior. (Leganés)

### **Host Institution Faculty**

### **Host Institution Degree**

### **Host Institution Department**

Ciencia e Ingeniería de Materiales e Ingeniería Química

### **Course Last Reviewed**

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