

COURSE DETAIL

NUMERICAL METHODS

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

114

UCEAP Course Suffix

C

UCEAP Official Title

NUMERICAL METHODS

UCEAP Transcript Title

NUMERICAL METHODS

UCEAP Quarter Units

5.00

UCEAP Semester Units

3.30

Course Description

This course discusses different concepts of numerical analysis including algorithms, stability, accuracy, and efficiency. Topics include: errors, algorithms, and estimates; nonlinear equations and nonlinear systems; methods for linear systems of equations; polynomial interpolation--Lagrange, Hermite, piecewise, and splines; numerical quadrature and differentiation.

Prerequisites: Linear Algebra, Differential Calculus, Integral Calculus, and Programming.

Language(s) of Instruction

English

Host Institution Course Number

18262

Host Institution Course Title

NUMERICAL METHODS

Host Institution Campus

Leganés

Host Institution Faculty

Escuela Politécnica Superior

Host Institution Degree

Grado en Matemática Aplicada y Computación

Host Institution Department

Departamento de Matemáticas

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