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
CÁLCULO NUMÉRICO

Host Institution Course Details
https://aplicaciones.uc3m.es/cpa/generaFicha?est=362&anio=2022&plan=433&asig=18...

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

Course Last Reviewed
2022-2023

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