

COURSE DETAIL

NUMERICAL METHODS

Country

Italy

Host Institution

University of Bologna

Program(s)

University of Bologna

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Mathematics

UCEAP Course Number

170

UCEAP Course Suffix**UCEAP Official Title**

NUMERICAL METHODS

UCEAP Transcript Title

NUMERICAL METHODS

UCEAP Quarter Units

6.00

UCEAP Semester Units

4.00

Course Description

This course is part of the Laurea Magistrale degree program and is intended for advanced level students. Enrolment is by permission of the instructor. At the end of the course, students know basic numerical methods for evolutive ordinary and partial differential problems, together with their main theoretical and computational properties. In particular, students are able to analyze the properties of numerical methods; constructively examine corresponding computational results; advance their scientific computing education in higher level courses; and employ the acquired numerical skills in a variety of application areas. The two main topics covered are: 1) numerical solution of Ordinary Differential Equations (ODEs): Initial Value Problems; and 2) numerical solution of ODEs: Boundary Value Problems.

Language(s) of Instruction

English

Host Institution Course Number

35433

Host Institution Course Title

NUMERICAL METHODS

Host Institution Course Details

<https://www.unibo.it/en/teaching/course-unit-catalogue/course-unit/2023/469921>

Host Institution Campus

BOLOGNA

Host Institution Faculty

Host Institution Degree

LM in MATHEMATICS

Host Institution Department

Mathematics

Course Last Reviewed

2023-2024

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