

# 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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