

# COURSE DETAIL

## NUMERICAL ANALYSIS: COMPUTATIONAL PROGRAMMING WITH PYTHON

**Country**

Sweden

**Host Institution**

Lund University

**Program(s)**

Lund University

**UCEAP Course Level**

Upper Division

**UCEAP Subject Area(s)**

Mathematics Computer Science

**UCEAP Course Number**

153

**UCEAP Course Suffix****UCEAP Official Title**

NUMERICAL ANALYSIS: COMPUTATIONAL PROGRAMMING WITH PYTHON

**UCEAP Transcript Title**

COMP PROGRAM PYTHON

**UCEAP Quarter Units**

6.00

**UCEAP Semester Units**

4.00

### **Course Description**

The course covers elementary programming concepts (arithmetic expressions, for-loops, logical expressions, if-statements, functions and classes) that are closely connected to mathematical/technical problems and examples, as well as mathematical manipulations (setting up matrices, solving linear problems, solving differential equations, finding roots).

### **Language(s) of Instruction**

English

### **Host Institution Course Number**

NUMA01

### **Host Institution Course Title**

NUMERICAL ANALYSIS: COMPUTATIONAL PROGRAMMING WITH PYTHON

### **Host Institution Course Details**

<https://www.lunduniversity.lu.se/lubas/i-uoh-lu-numa01>

### **Host Institution Campus**

Lund

### **Host Institution Faculty**

Science

### **Host Institution Degree**

### **Host Institution Department**

### **Course Last Reviewed**

2025-2026

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