A.Y. 2023/2024

Internal Courses – Class of Natural Sciences

Courses of the 1st year

COMPLEMENTS OF ANALYSIS (6 CFU)
Prof. Roberto Monti

COMPLEMENTS OF MECHANICS (6 CFU)
Prof. Francesco D’Eramo

COMPLEMENTS OF MATHEMATICS (6 CFU)
Prof. Giulio Giuseppe Giusteri

Courses of the 2nd year

MEASURE THEORY
Prof. Paolo Ciatti

PHYSICS LABORATORY
Prof. Giampaolo Mistura

Courses of the 2nd/3rd year

Upon request, the courses of the 4th and 5th year can be accessed during the 3rd year too.

ADVANCED ELECTROMAGNETISM
Proff. Luca Vecchi, Marco Zanetti

ALGORITHM DESIGN
Prof. Francesco Silvestri

DATA ANALYSIS
Prof. Marco Grassi

FUNCTIONAL METHODS IN POLYMER STATISTICAL MECHANICS AND STOCHASTIC
Prof. Enzo Orlandini

INTRODUCTION TO GROUP REPRESENTATION THEORY
Proff. Andrea Lucchini, Giovanna Carnovale
Courses of the 4\textsuperscript{th} and 5\textsuperscript{th} year

One of the following courses can be replaced by an individual project, under the supervision of a teacher.

**BLACK HOLES**  
Prof. Davide Cassani

**FUNDAMENTALS OF EVOLUTIONARY BIOLOGY**  
Prof. Gil Guastoni Rosenthal

**INTRODUCTION TO ELLIPTIC CURVES AND MODULAR FORMS**  
Prof. Adrian Iovita

**MACHINE LEARNING APPROACHES TO INFEERENCE**  
Proff. Carlo Albert, Jeff Byers

**TOPOGRAPHIC AND DISSECTIVE ANATOMY**  
Prof. Andrea Porzionato