A.Y. 2015/2016

Internal Courses – Class of Natural Sciences

Courses of the 1\textsuperscript{st} year

CALCULUS
Prof. Paolo Guiotto

COMPLEMENTS OF ANALYSIS
Prof. Carlo Mariconda

INTRODUCTION TO PROBABILITY MODELS
Prof. Alessandra Bianchi

INTRODUCTION TO THERMODYNAMICS
Prof. Fulvio Baldovin, Prof. Enzo Orlandini

Courses of the 2\textsuperscript{nd} year

MEASURE THEORY
Prof. Paolo Ciatti

INTERACTION NETWORKS IN LIVING SYSTEMS
Prof. Amos Maritan

FLUID DYNAMICS
Prof. Roberto Turolla

CHEMICAL EQUILIBRIUM AND IRREVERSIBLE PROCESSES
Prof. Giorgio Moro

Courses of the 3\textsuperscript{rd} year

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

ALGEBRAIC STRUCTURE
Prof. Matteo Longo

QUANTUM MECHANICS
Prof. Pieralberto Marchetti

SHORT COURSE IN ROBOTICS AND LEARNING
Prof. Jochen Steil, Prof. Livia Conti

CHEMICAL KINETICS
Prof. Mauro Sambi
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.

**SPECTRAL THEORY**  
Prof. Pier Domenico Lamberti

**GEOMETRIC METHODS IN THEORETICAL PHYSICS**  
Prof. Gianguido Dall'Agata

**COMPARATIVE PHYSIOLOGY OF ORGANISMS ADAPTATION TO ENVIRONMENT**  
Prof. Mariano Beltramini

**BIO-OPTOGENETICS**  
Prof. Giorgio Carmignoto, Prof. Gian Michele Ratto, Prof. Tommaso Fellin

**SCIENCE MECCANO (THEORY)**  
Prof. Paolo Ciatti, Prof. Fulvio Baldovin