A.Y. 2016/2017

Internal Courses – Class of Natural Sciences

Courses of the 1st year

CALCULUS
Prof. Paolo Guiotto

COMPLEMENTS OF ANALYSIS
Prof. Davide Vittone

INTRODUCTION TO PROBABILITY MODELS
Prof. Alessandra Bianchi

INTRODUCTION TO THERMODYNAMICS
Prof. Fulvio Baldovin

Courses of the 2nd year

MEASURE THEORY
Prof. Paolo Ciatti

INTERACTION NETWORKS IN LIVING SYSTEMS
Prof. Amos Maritan

FLUID DYNAMICS
Prof. Roberto Turolla

DATA ANALYSIS AND STATISTICS
Prof. Giulio D’Agostini

Courses of the 3rd year

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

THERMODYNAMICS OF NON-EQUILIBRIUM STATES
Prof. Giorgio Moro

BIOLOGY, GENETICS AND BIOTECHNOLOGY OF PLANTS
Prof. Livio Trainotti

INTRODUCTION TO COGNITIVE NEUROSCIENCE
Proff. Mathew Diamond, Davide Zoccolan, Domenica Bueti e Davide Crepaldi

DIFFERENTIAL GEOMETRY
Proff. Carla Novelli, Franco Cardin

PROBABILITY AND INTRODUCTION TO STOCHASTIC PROCESSES
Prof. Paolo Dai Pra
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.

**QUANTUM INFORMATION**  
Proff. Paolo Villoresi, Giuseppe Vallone

**METHODS OF EXPERIMENTAL PHYSICS FOR LIFE SCIENCES**  
Proff. Riccardo Faccini, Giovanni Carugno

**INTRODUCTION TO NONLINEAR PARTIAL DIFFERENTIAL EQUATIONS**  
Prof. Nicola Garofalo