Syllabus for Admission to the PhD School in Statistics, University of Padova

Candidates for the PhD School in Statistics (Doctorate in Statistical Sciences) are required to be sufficiently well trained to be able to benefit from the research and study activities planned for the programme. At the start of the programme, it will be assumed that students have a level of preparation equivalent to at least 5 university courses of: mathematics (including linear algebra), probability and statistics. Furthermore, a working knowledge of English will be required.

The necessary prerequisites required at the start of the programme are fundamental mathematical skills and basic knowledge in probability and statistics as described below.

Mathematics
For instance at the level of
In particular:
Set theory. Sequences of real numbers: limit of a sequence, Cauchy sequences, subsequences. Series of real numbers: convergence and convergence criteria. Differential and Integral Calculus in R and in Rn.

Basic Probability
For instance at the level of
In particular:

Basic Statistics
For instance at the level of
In particular: