UNIVERSITÀ DI PISA

# ANNEX 2 – List of the Second Cycle Degrees held in English participating in the call for University of Pisa and entry requirements

## University Corridors for Refugees - UNICORE 2.0 (Ethiopia 2020-2022)

### MSc Aerospace Engineering

Applicants must have completed at least three years of undergraduate education in an engineering discipline or in an applied science. Extensive undergraduate preparation in physics, chemistry, thermodynamics, mechanics, engineering and mathematics is required. The Admissions Committee may also consider research papers, publications and other original work. Adequate knowledge of English is required.

Master degree programme info http://msse.ing.unipi.it/

### MSc Artificial Intelligence and Data Engineering

Applicants must either hold a Bachelor of Science, or equivalent first-cycle degree, obtained abroad after the completion of a three-year (minimum) course of study, providing a suitable background in both mathematics and computer engineering.

Knowledge of the English language, comparable to the level B2 of the Common European Framework of Reference for Languages, is required.

Master degree programme info https://computer.ing.unipi.it/aide-lm

### MSc in Bionics Engineering

Applicants must hold a Bachelor of Science in Biomedical Engineering, Bachelor of Science in Engineering or Bachelor of Science in other disciplines, only if the B.Sc. includes at least the minimal qualifications in terms of gained credits as detailed in the call. Good knowledge of English language, at least corresponding to an intermediate level (B2 Level in the European Framework for foreign languages).

Master degree programme info http://www.bionicsengineering.it/call_for_applications_2020

### MSc in Computer Engineering

Applicants must hold a Bachelor of Science, or equivalent first-cycle degree, obtained abroad after the completion of a three-year (minimum) course of study, in Computer Engineering, or any other degree providing a suitable background in both mathematics and computer engineering, as well as in further subjects related to the latter (e.g., electronics, telecommunications, automation or management).

Knowledge of the English language, comparable to the level B2 of the Common European Framework of Reference for Languages, is also required.

Master degree programme info https://computer.ing.unipi.it/ce-lm

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## MSc in Computer Science

Applicants must have a first-level Bachelor's degree with at least 60 ECTS in computer science courses and 12 ECTS in mathematics or physics courses – or an equivalent non-EU first-level University degree satisfying analogous requirements and a good knowledge of English (B2 Level in the European Framework for foreign languages).

Master degree programme info https://didattica.di.unipi.it/en/master-programme-in-computer-science/

## MSc in Computer Science and Networking

Applicants must have a first-level Bachelor's degree in Computer Science, or Computer Engineering, or Telecommunication Engineering, or equivalent qualification degrees subject to be verified by the admission jury. In addition to a first-level Bachelor's degree, applicants must have a good knowledge of English (B2 Level in the European Framework for foreign languages).

Master degree programme info https://didattica.di.unipi.it/en/master-programme-in-computer-science-and-networking/

## MSc in Data Science and Business Informatics

Applicants must have a first-level Bachelor's degree with basic knowledge on discrete mathematics, logics, computer programming, algorithmic, and data bases. Such topics are typically part of Bachelor programs in Computer Science or in Computer Engineering. Furthermore, a good knowledge of English (B2 Level in the European Framework for foreign languages) is required. A Selection Committee will evaluate the applicant's background, education and motivation to assess their potential skills and attitude to attend the programme.

Master degree programme info https://didattica.di.unipi.it/en/master-programme-in-data-science-and-business-informatics/

## MSc in Economics

Applicants should have already obtained a minimum number of credits in key disciplines during their Bachelor studies. In particular:

- 18 credits in Economics;
- 9 credits in Statistics;
- 9 credits in Mathematical Methods in Economics, Actuarial Science and Finance;
- 45 credits in a wider range of disciplines including Economics; Economic Policy; Public Finance; History of Economic Thought; Econometrics; Applied Economics; Accounting; Economics and Business Administration; Economics of Financial Intermediaries; Economic History; Private Law; Public Law; Political Sciences; Contemporary History; Geometry; Mathematics; Probability and Mathematical Statistics; Operations Research; Experimental Physics; Theoretical Physics, Mathematical Methods and Models.
- For prospective applicants who have not graduated from an Italian University, the fulfilment of minimal requirements is assessed by examining in detail the contents of the courses taken in their previous academic careers.
- Applicants must possess a good knowledge at the undergraduate level of the theoretical and quantitative tools (math and stats) needed to profitably attend the MSE program. The overall profile and the undergraduate performance must show a solid background and inclination toward the subjects and specializations offered in the programme. The assessment of the personal qualification

is made by the Admission Committee after a careful scrutiny of the curriculum vitae and the undergraduate career of the candidate.

- Applicants must be able to understand and express themselves both in spoken and written English: the minimum level required is a B2 in the framework of CEFR. In particular cases, documentary evidence of the command of the English language (TOEFL, IELTS, CBT, etc.) can be substituted by a personal declaration.

  Master degree programme info http://mse.ec.unipi.it/admission/requirements-for-admission/

## MSc in Exploration and Applied Geophysics

Applicants must have a pertinent scientific bachelor's degree, or other equivalent or superior foreign academic qualification. Our records show that past students have come from a wide range of disciplines including Geology, Physics, Telecommunications, and/or Electronics Engineering, Civil and/or Environmental Engineering, Environmental Sciences, Mathematics. A knowledge of the English language equivalent or superior to B2 level is desirable.

Master degree programme info https://www.dst.unipi.it/exploration-and-applied-geophysics-msc-wgf-lm.html

## MSc in Neuroscience

Applicants must have a qualification obtained abroad and recognised as eligible and a good knowledge of English (B2 Level in the European Framework for foreign languages). The admission committee requires applicants to have acquired a sufficient number of credits in biological fields such as physiology, genetics, biochemistry, pharmacology, cell and molecular biology and equivalent fields. The committee also requires applicants to have a minimum of credits in fields such as mathematics, chemistry, physics and equivalent sectors.

Master degree programme info https://www.biologia.unipi.it/en/admission-to-the-course-wnc-lm.html

## MSc in Nuclear Engineering

Applicants must be in possession of a first level university degree obtained after three years of study in Italy or of another equivalent first level title obtained in other countries that can be recognized as adequate. Admission to the Master's Degree course is subject to satisfying the following minimum requirements:

- A total of 42 ECTS in the following scientific-disciplinary sectors: Mathematics, Physics and Chemistry;
- A total of 18 ECTS in scientific disciplinary sectors related to the Industrial Engineering field.

A knowledge of the English language comparable or superior to B2 level (Common European Framework of Reference for Languages) is mandatory.

Master degree programme info http://nucleare.ing.unipi.it/it/foreign-students