



Direzione per la Didattica e l'Orientamento

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ANNEX 1 - ENTRY REQUIREMENTS FOR THE SECOND CYCLE DEGREE PROGRAMMES TAUGHT IN ENGLISH (FULLY OR PARTIALLY) AT THE UNIVERSITY OF CAGLIARI

(ECTS= credits)

Master programmes taught in English

- **Computer Engineering, Cybersecurity and Artificial Intelligence**

Minimum admission requirements

- The SUM of credits in MATHS and PHYSICS must be equal to, or greater than, 12
- The number of credits in COMPUTER SCIENCE OR COMPUTER ENGINEERING must be equal to, or greater than, 18
- The SUM of credits in COMPUTER SCIENCE OR COMPUTER ENGINEERING and INFORMATION AND COMMUNICATION TECHNOLOGY must be equal to, or greater than, 36.

Students must have a B2 English language certification.

unica.it - [MSc in Computer Engineering, Cybersecurity and Artificial Intelligence](#)

- **International Management**

Applicants must have earned the qualification in Business Administration, Economics, or Management. Alternatively, applicants must have acquired at least:

27 ECTS in Business administration, Finance, Financial Markets and Institutions, Management or Organization Studies scientific sectors;

15 ECTS in Economic Statistics or Statistics, Mathematical methods of Economy, Finance and actuarial sciences or Operational Research (Mathematics) scientific sectors.

18 ECTS in Business Law, Economics Law, European Union Law, Private Law, Navigation and Air Law, Public law or Tax law scientific sectors.

12 CFU in Political Economy, Economic Policy, Financial Science, Applied Economics.

Students must have a B2 English language certification.

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- **Economics, Finance and Data Analysis, curriculum *Economics and Data Analysis***

Applicants must have earned the qualification in either Economics, Business Administration, or Management. Alternatively, applicants must have acquired at least:

- 15 ECTS in Economics and Econometrics scientific sectors;
- 9 ECTS in Business administration, Finance, Financial Markets and Institutions, Management or Organization Studies scientific sectors; Business Law, Economics Law, European Union Law, Private Law, Navigation and Air Law, Public law or Tax law scientific sectors;
- 12 ECTS or Statistics, Mathematical methods of Economy, Finance and actuarial sciences or Operational Research (Mathematics) scientific sectors;
- English language certification level B1.

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- **Cellular and Molecular Biology, curriculum *Advanced Cellular Studies***

In addition to knowledge of the English language (at least B2), it is also necessary to have the following minimum curricular requirements:

- a) have acquired at least 12 ECTS in courses in the scientific sectors of Mathematics, Physics, Informatics, Informatic Engineering;
- b) have acquired at least 12 ECTS in courses of Chemistry;
- c) have acquired at least 48 ECTS in courses of the area of Biology.

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- **Advanced biotechnology**

Applicants must hold a Bachelor's degree in one of the following fields: Biotechnology, Biological Sciences, or Pharmaceutical Sciences and Technologies.

Other Bachelor's degrees can be accepted, provided that, at the time of enrolment, the applicant has obtained a minimum number of ECTS credits in specific subject areas, as follows:

- a) A minimum of 18 ECTS credits in basic disciplines Mathematics, Chemistry, and Physics.
- b) A minimum of 18 ECTS credits in Biological Disciplines (Biochemistry, Molecular Biology, Genetics, Microbiology, Pharmacology).

Additionally, all applicants must provide a language certification demonstrating English proficiency at a minimum B2 level according to the Common European Framework of Reference for Languages (CEFR).

unica.it - Advanced Biotechnology

Master programmes partially taught in English and Italian (an Italian language test is foreseen after the selection)

- **Environmental Engineering for Sustainable Development, curriculum *Environmental remediation technologies***

Applicants must have acquired at least:

- 15 credits in MATHS;
- 10 credits in PHYSICS;
- 5 credits in Chemistry and Material Science;
- 10 credits in Hydraulics, Hydrology and Hydraulic engineering;
- 5 credits in Geology, Applied Geology, Georesources;
- 5 credits in Sanitary-Environmental Engineering;
- 5 credits in Geotechnics and Geophysics;
- 5 credits in Construction Theory.



unica.it - Environmental Engineering for Sustainable Development

• **Electronic Engineering**

In the previous career (B. Sc.) the prospective student must have acquired 30 ECTS in foundational disciplines (Maths, Physics, Chemistry, Computer Science) and 45 ECTS in specific disciplines (Electronics, Circuit Theory, Computer Science, Electromagnetism, Telecommunications, etc.), according to the numbers provided in the following table:

Discipline type	Disciplines	Minimum ECTS
Foundational	Maths, Physics, Chemistry, Computer Science	30
Specific	Analog and Digital Electronics, Electronic Devices, Circuit Theory, Electromagnetism, Telecommunication, Computer Science, Computer Engineering, Signal Processing, Instrumentation	45
Sum		75

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• **Chemical and Biotechnological Process Engineering**

In the previous career (Bachelor Degree) the applicant student should have acquired **at least 30 ECTS** in the formation disciplines and **at least 45 ECTS** in specific disciplines, according to the numbers provided in the table:

Discipline type	Disciplines	Minimum ECTS
Formation	Algebra, Calculus, Computer Science, Probability and Statistics, Physics, General and Inorganic Chemistry	30
Specific	Metallurgy, Organic Chemistry, Applied Physical Chemistry, Transport Phenomena, Chemical Plants, Unit Operations, Industrial Chemistry, Fluid Dynamics, Fluid Hydraulics, Fluid Mechanics, Computer-Aided Design, Applied Mechanics, Automation, Industrial Bioengineering, Electronic Bioengineering, Electrical Engineering, Electrical and Electronic Measurements, Nuclear Plants, Fluid Machines, Applied Physics, Mechanical Design, Mechanical Industrial Plants, Structural Mechanics, Materials Science, Materials Technology, Electromagnetism, Mechanical Industrial Plants, Ecology, Geology, Geophysics, Economic-Management Engineering, Biochemistry	45
Sum		75

As a further requirement, a minimum number of ECTS is needed **for each** of the following disciplines:

Disciplines	Minimum ECTS
Calculus or Numerical Analysis	7



Physics	7
General and inorganic chemistry <i>or</i> Applied Chemistry	6
Transport Phenomena <i>or</i> Industrial Bioengineering <i>or</i> Thermodynamics	6
Computer Science	4

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- **Tourism Management and Sustainability**

Bachelor (undergraduate) degree in one of the following: Economy and Management Sciences; Economic Sciences. Bachelor (undergraduate) degree in classes different from the former, provided that an adequate number of credits is earned in the following areas:

6 credits (ECTS) in Corporate Sciences area;

6 ECTS in Economic Sciences area;

6 ECTS in Mathematics and Statistical Sciences area.

unica.it - Tourism Management and Sustainability

- **International Relations**

Enrollment without verification of curricular requirements is possible for students with a degree in Political Sciences; Political Sciences and International Relations. For students holding different degrees, enrollment is conditioned to these curricular requirements:

- 12 ECTS in Politics and History Studies scientific sectors;
- 6 ECTS in Sociologic Studies scientific sectors;
- 6 ECTS in Law Studies scientific sectors;
- 6 ECTS in Economic Studies scientific sectors;
- English Language Proficiency of level B1.

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- **Informatics**

Admission requirements to the Master of Science in Informatics, expressed in terms of the minimum number of credits:

- at least 18 ECTS in total in Mathematics and Physics;
- at least 96 ECTS in Informatics.

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An evaluation on the compliance with of the curricular requirements for each specific Master Programme will be done by the selecting Committee.