ANNEX 2 - 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](https://www.unica.it/en/)

- **Management, curriculum 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.

  Students must have a B2 English language certification.

  [unica.it - Economia Manageriale](https://www.unica.it/en/)

- **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.

  [unica.it - Biologia Cellulare e Molecolare](https://www.unica.it/en/)
Master programmes partially taught in English and Italian

- **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.

- **Electronic Engineering**

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

<table>
<thead>
<tr>
<th>Discipline type</th>
<th>Disciplines</th>
<th>Minimum ECTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Foundational</td>
<td>Maths, Physics, Chemistry, Computer Science</td>
<td>30</td>
</tr>
<tr>
<td>Specific</td>
<td>Analog and Digital Electronics, Electronic Devices, Circuit Theory, Electromagnetism, Telecommunication, Computer Science, Computer Engineering, Signal Processing, Instrumentation</td>
<td>45</td>
</tr>
<tr>
<td>Sum</td>
<td></td>
<td>75</td>
</tr>
</tbody>
</table>

- **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:
Disciplines

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

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

<table>
<thead>
<tr>
<th>Disciplines</th>
<th>Minimum ECTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calculus or Numerical Analysis</td>
<td>7</td>
</tr>
<tr>
<td>Physics</td>
<td>7</td>
</tr>
<tr>
<td>General and inorganic chemistry or Applied Chemistry</td>
<td>6</td>
</tr>
<tr>
<td>Transport Phenomena or Industrial Bioengineering or Thermodynamics</td>
<td>6</td>
</tr>
<tr>
<td>Computer Science</td>
<td>4</td>
</tr>
</tbody>
</table>

- **Economics, Finance and Public Policy**

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.

unica.it - Economics, Finance And Public Policy
• **Sustainable Tourism Management and Monitoring**

*Admission requirements:*

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:

- 12 credits (ECTS) in Corporate Sciences area;
- 12 ECTS in Economic Sciences area;
- 9 ECTS in Mathematics and Statistical Sciences area.

[unica.it - Management e Monitoraggio del Turismo Sostenibile](https://www.unica.it/en/management-e-monitoraggio-del-turismo-sostenibile)

• **International Relations**

*Curricular Requirements*

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.

[unica.it - Relazioni Internazionali](https://www.unica.it/en/relationi-internazionali)

• **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.

[unica.it - Informatica](https://www.unica.it/en/informatica)

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