



“CORSO DI LAUREA MAGISTRALE INTERCLASSE” – MASTER DEGREE

MATERIALS AND CHEMICAL ENGINEERING FOR NANO, BIO, AND SUSTAINABLE TECHNOLOGIES

CLASS LM-22 (CHEMICAL ENGINEERING) AND LM-53 (MATERIALS ENGINEERING)

ATTACHMENT B

CURRICULAR REQUIREMENTS

for students enrolling in the first year of the degree program in 2024/25

Curricular requirements

In order to be admitted to the Master's Degree program, candidates must hold a three-year bachelor's degree (e.g. “laurea”) or a master's degree (e.g. “laurea specialistica” or “laurea magistrale”), a five-year degree (e.g. “laurea a ciclo unico”), or another qualification obtained abroad that is recognized as equivalent and suitable, which ensures that the student has adequate preparation to undertake the degree program. Knowledge equivalent to that expected from the general educational objectives of the Industrial Engineering Degrees (e.g., for applicants with an Italian degree: Class 10 of DM509/1999 and Class L-9 of DM270/2004) is considered sufficient.

In general, to be considered sufficient as an admission requirement for the program, the student's previous studies must have provided:

- A solid foundation in mathematics, physics, and chemistry. Specifically, for degrees or diplomas obtained in Italy, the student must have acquired a minimum of 30 ECTS (European Credit Transfer and Accumulation System) in the scientific-disciplinary sectors (SSD) of the basic subjects MAT/03, MAT/05, MAT/06, MAT/07, MAT/08, FIS/01, FIS/02, FIS/03, CHIM/03, CHIM/07. For qualifications obtained abroad, the Course Council will evaluate the equivalence of the student's preparation in mathematics, physics, and chemistry based on the study curriculum.

- A basic preparation in the fundamental areas of materials science and technology, and of chemical engineering. Specifically, for degrees or diplomas obtained in Italy, the student must have acquired at least 24 ECTS in the scientific-disciplinary sectors (SSD) ING-IND/16, ING-IND/21, ING-IND/22, ING-IND/23, ING-IND/24, ING-IND/25, ING-IND/26, ING-IND/27, ICAR/08. For qualifications obtained abroad, the Course Council will evaluate the



equivalence of the student's preparation in materials science and technology and chemical engineering based on the study curriculum.

In particular cases, the Course Council will assess the equivalence, with respect to the minimum requirements, of the knowledge acquired by the candidate even if they do not belong to the indicated scientific-disciplinary sectors.

Adequacy of previous knowledge

The Course Council verifies the adequacy of the personal preparation of students who have applied for admission to the program and meet the aforementioned curricular requirements. This verification is conducted, in accordance with the academic regulations, based on the applicant's curriculum vitae and, if necessary, through an oral examination, which consists of an interview with a Committee appointed by the Course Council and composed of faculty members affiliated with the program.

For admission to the program, a level of English proficiency of at least B2 according to the Common European Framework of Reference for Languages, or an equivalent level, is required. The adequacy of the linguistic preparation can be verified through the presence of any certifications or through an oral interview.

The verification can result in one of the following outcomes:

- Unconditional admission;
- Conditional admission subject to the acceptance of specific requirements;
- Rejection of the admission application with a justification and recommendations on how to acquire the missing requirements.