



ALMA MATER STUDIORUM
UNIVERSITÀ DI BOLOGNA

DIPARTIMENTO DI SCIENZE STATISTICHE

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2022/2023 Academic Year

Notice for admission to the Master's Degree in Statistics, Economics and Business (Order D.M. 270, LM-82, code 8876)

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Information regarding the processing of personal data is available at
<https://www.unibo.it/en/university/privacy-policy-and-legal-notes/privacy-policy/personal-data-processing> .

The university has for some time been working to raise awareness of and to address gender stereotypes. In this context, it has been decided to give greater linguistic visibility to gender differences. Where, solely for the sake of simplicity, the masculine form is used in this document, it is understood as referring to all persons who work within the community.

Brief overview of the degree programme

The Master's Degree in Statistics, Economics and Business aims to provide a wide and sophisticated statistical and methodological instrumentation that is declared as an element of decision support in contexts of accurate and specific analysis and study, with particular reference to:

- a) marketing and market research, with privileged attention to the world of the business world;
- b) statistical-economic analysis, with privileged attention to the economic study centers of national and international companies and research agencies;
- c) Business Analytics, with special attention to the world of business and consulting companies.

(curriculum delivered in English).

SECTION 1 – PROGRAMME ADMISSION REQUIREMENTS

Admission to the second-cycle degree programme in Statistics, Economics and Business is subject to

- a) possession of a **DEGREE QUALIFICATION**, i.e., a three-year university degree or diploma or another suitable qualification obtained abroad.

Candidates who have not yet graduated may also apply. The application procedures are outlined in section 3.

- b) satisfaction of the **CURRICULAR REQUIREMENTS** outlined in section 2.
- c) satisfaction of the **LANGUAGE REQUIREMENTS** and, specifically, knowledge of English to at least B2 level, to be demonstrated according to the procedures set out in section 2.
- d) in case of lack of the curricular requirements set out in Section 2, assessment of the candidate's **PERSONAL KNOWLEDGE AND SKILLS** in accordance with the procedures set out in section 3.

A committee will check the candidates' academic backgrounds and that they meet the requirements for admission.

The committee is composed of: Professor Silvia Pacei, Professor Saverio Ranciati, Professor Martin Forster, Professor Gabriele Soffritti.

Professors on the first year of the degree programme may also sit on the committee as alternate members.

SECTION 2 – CURRICULAR AND LANGUAGE REQUIREMENTS

CURRICULAR REQUIREMENTS

To attend the Master's Degree in Statistics, Economics and Business ("Statistica, Economia e Impresa") it is strictly necessary to have adequate knowledge of:

- Mathematics (Calculus and Linear Algebra);
- Probability (fundamental theorem and axioms for the computation of probabilities);

- Statistics (descriptive statistics, statistical inference, linear model, matrices of data and matrices of derivatives, familiarity with sampling strategies, multivariate statistics)
- Economics (principles of microeconomics);
- Economics and Business Administration (principles of business administrations, principles of marketing)

For those interested in enrolling in the international **Business Analytics curriculum**, it is required to know the English language at a **B2 level** by the time of the application.

To be admitted to the Master's in Statistics, Economics and Business it is necessary to hold an Italian First Cycle Degree in one of the following classes:

- Ex. D.M. 270/04: L-41 – Statistics
- Ex D.M. 509/99: class 37 - Statistical Sciences

or have other qualifications obtained abroad, recognised as suitable. **Alternatively**, the following three curricular requirements are required for access to the Master's degree programme:

- 1) have obtained an Italian First Cycle degree in one of the following classes or hold other evidence of formal qualifications obtained abroad, recognised as suitable:

- **ex D.M. 270:**

- L-7 Ingegneria civile e ambientale
- L-8 Ingegneria dell'informazione
- L-9 Ingegneria industriale
- L-16 Scienze dell'amministrazione e dell'organizzazione
- L-18 Scienze dell'economia e della gestione aziendale
- L-30 Scienze e tecnologie fisiche
- L-31 Scienze e tecnologie informatiche
- L-33 Scienze economiche
- L-35 Scienze matematiche
- L-36 Scienze politiche e delle relazioni internazionali
- L-37 Scienze sociali per la cooperazione, lo sviluppo e la pace
- L-40 Sociologia

- **ex. D.M. 509/99:**

- 8 Ingegneria civile e ambientale
- 9 Ingegneria dell'informazione
- 10 Ingegneria industriale
- 19 Scienze dell'amministrazione
- 17 Scienze dell'economia e della gestione aziendale

25 Scienze e tecnologie fisiche
26 Scienze e tecnologie informatiche
28 Scienze economiche
32 Scienze matematiche
15 Scienze politiche e delle relazioni internazionali
35 Scienze sociali per la cooperazione, lo sviluppo e la pace
36 Scienze sociologiche

2) have acquired at least 24 total CFU (the Italian credits system corresponding to the ECTS) in one or more of the following scientific-disciplinary fields in the subject area of Mathematics and Statistics:

MAT/02 – Algebra

MAT/03 – Geometria

MAT/05 - Analisi matematica

MAT/06 - Probabilità e statistica matematica

MAT/07 - Fisica matematica

MAT/08 - Analisi numerica

MAT/09 - Ricerca operativa

SECS-S/01 – Statistica

SECS-S/02 - Statistica per la ricerca sperimentale e tecnologica

SECS-S/03 - Statistica economica

SECS-S/05 - Statistica sociale

SECS-S/06 - Metodi matematici dell'economia e delle scienze attuariali e finanziarie

of which at least 16 total CFU in one or more of the following scientific-disciplinary fields (Statistics area):

SECS-S/01 – Statistica

SECS-S/02 - Statistica per la ricerca sperimentale e tecnologica

SECS-S/03 - Statistica economica

SECS-S/05 - Statistica sociale

3) have acquired at least 16 total CFU in one or more of the following scientific-disciplinary fields (Economics area):

SECS-P/01 - Economia politica

SECS-P/02 - Politica economica

SECS-P/03 - Scienza delle finanze

SECS-P/05 – Econometria

SECS-P/06 - Economia applicata

SECS-P/07 - Economia aziendale

SECS-P/08 - Economia e gestione delle imprese

SECS-P/09 - Finanza aziendale

Of which at least 8 total CFU in in one or more of the following scientific-disciplinary fields
(Economics area):

- SECS-P/01 - Economia politica
- SECS-P/02 - Politica economica
- SECS-P/03 - Scienza delle finanze
- SECS-P/05 – Econometria
- SECS-P/06 - Economia applicate

With reference to the requirements described in points 2) and 3), the Degree Programme Board reserves the right to approve, in the case of CFU (ECTS) obtained in scientific-disciplinary fields different from those reported but of similar content, the equivalence of CFU (ECTS) thus achieved.

In case of absence of the curricular requirements indicated above, or in all cases where the conditions for automatic authorization cannot be ascertained, the admission to the Master's degree programme is subject to a preliminary evaluation by a committee appointed by the Degree Programme Board, which verifies the possession of the required knowledge and skills through an interview (section 3).

LANGUAGE REQUIREMENTS

- To access to the Italian tracks **Marketing e ricerche di mercato** and **Metodi quantitativi per le decisioni economiche** it is necessary at least the B1 level of English Common European Framework of Reference for Languages (CEFR). The language requirement is not mandatory at the time of application. It can be satisfied also thereafter, by submission of appropriate certification.
- To access to the international track **Business Analytics**, admission to the programme is subject to possession of English language skills to at least Common European Framework (CEFR) **level B2**. It is compulsory to upload the language certification at the time of the application. It is in automatic index of application for the BA track.

The proof of B2 English level proficiency can be considered fulfilled with one of the following cases:

- Language certification by the Centro Linguistico di Ateneo (CLA), issued from January 1st, 2019.
- English Language certification among the following: TOEFL, ISE, IELTS, CAMBRIDGE EXAM SUITE, issued from January 1st, 2019. A table of correspondence is available at the [Admission](#) page of the Business Analytics curriculum.
- B2 level of the OOPT (Oxford Online Placement Test) by the Centro Linguistico di Ateneo (CLA), more information on the [Admission](#) page of the curriculum.
- Other international recognized English Language certification, issued from January 1st, 2019, that the Admission Board might deem appropriate
- First cycle degree (bachelor's) taught in English
- B2 level English exam in their bachelor's study plan (the level must be made explicit in the name of the course or in the syllabus of the course to be attached)
- The applicant is an English native speaker (necessary to upload a self-declaration)
- The applicant has passed an OLS Test in English obtaining the B2 level, no earlier than January 1st 2019.

The applicant is asked to attach any useful document that can certify their declaration or be of any help in evaluating their English proficiency. A declaration without any document attesting its value may be judged incomplete.

SECTION 3 – ASSESSMENT OF THE CANDIDATE'S PERSONAL KNOWLEDGE AND SKILLS

Admission to the Master's Degree Programme is subject to the verification of the adequacy of the personal preparation and can be passed:

- for graduates who have the above-mentioned curricular requirements, the verification of the adequacy of personal preparation will be carried out by analyzing the academic background and will be deemed to have been passed in the event of graduation with a grade of not less than 95/110;
- in all other cases, the adequacy of the personal preparation will be verified by an analysis of the academic background and an interview;
- for graduates who do not meet the above curricular requirements, and for candidates with a foreign qualification, the verification of the fulfilment of these requirements and the verification of the adequacy of personal preparation will take place simultaneously through a single interview.

The interview involves performing one or more statistical exercises and/or answering one or more theoretical statistical questions. The exercises will cover topics related to the computation of probabilities, random variables, point estimation, confidence intervals on mean and variance, hypothesis testing on mean and variance, and the linear regression model. For those interested in applying to the Business Analytics Curriculum, the interview will be carried out in English.

The Admission Committee provides a final judgment based on the result of the written test and on the evaluation of the academic background, and then it issues the eventual authorization (*nulla osta*) to matriculate.

The topics to be verified, practical and/or theoretical, will be the topics contained in the following textbook:

Statistical Methods for the Social Sciences, Global Edition, 5th Edition - Alan Agresti, University of Florida, 2018 Pearson

The application process is also open to students who are about to graduate. **Candidates will be admitted to the degree programme on the condition that they obtain their undergraduate degree by and no later than December 30th, 2022.** Candidates who do not meet this requirement will be excluded.

SECTION 4 – ADMISSION AND DEADLINES

The applications will be assessed by the committee in accordance with the procedure outlined below.

	APPLICATIONS PROCEDURE OPEN	APPLICATIONS PROCEDURE CLOSED*	INTERVIEWS	RESULTS AND FEEDBACK	Open to non-EU resident abroad	Open to EU and EU assimilated
Intake 1	May 31 st 2022	June 23 rd 2022	July 7 th 2022	July 14 th 2022	YES	YES
Intake 2	August 1 st 2022	August 31 st 2022	September 15 th 2022	September 22 nd 2022	YES	YES
Intake 3	September 29 th 2022	October 29 th 2022	November 3 rd 2022	November 10 th 2022	YES	YES

* The application deadline is at 13.00 (CET) of the selected day.

Candidates that are not admitted at one intake, cannot participate in the subsequent sessions.

Instead, candidates who are called but after do not take the interview for various reasons, may apply again for subsequent sessions.

SECTION 5 – HOW TO APPLY

Applications must be submitted in accordance with the following procedure:

Log on to www.studenti.unibo.it, using your SPID, username and password. International students who do not have an identity document issued in Italy may log on with their University username and password, which can be obtained by going to www.studenti.unibo.it and clicking on *Register* and then *International students registration*.

1. International non-EU students who do not have an ID document issued in Italy and, therefore, cannot obtain SPID credentials, may log on with their University username and password.
2. **Click on** "APPLY FOR ADMISSION", select "SECOND-CYCLE DEGREE" and select the programme named "Statistics, Economics and Business". Note: at this stage it is not possible to indicate your chosen curriculum; to apply to Business Analytics, it is sufficient uploading the language requirement.
3. **UPLOAD the required documents in PDF format:**

MANDATORY DOCUMENTS

- A copy of the front and back of a valid identity document. If the identity document does not have an English translation, a copy of your passport must be attached.
- Self-certification regarding your first-level academic qualification with a list of the exams taken completed with scientific disciplinary sectors - SSD and grades, if obtained in Italy, or a copy of the qualification obtained abroad which enables access to second-level degree programmes in

the country in which it was obtained, accompanied by a Transcript of Records and a Diploma Supplement, where available, translated into Italian or English. Students who have graduated and/or are about to graduate from the University of Bologna will see their certificate of studies complete with exams passed, which they must select in order to declare possession of the qualification.

- Syllabus of the teaching of “Statistics”, if you come from a degree different from Italian Degree Class L-41 or if you have a foreign qualification.
- If you have not yet obtained the aforementioned qualification, you must submit a self-certification of the Cumulative Grade Point Average and the presumed degree grade (according to the form downloadable among the attachments on the [Admission](#) page) (only for candidates enrolled in an Italian University).
- For those interested in the Business Analytics curriculum, it is mandatory to upload at the time of application a document certifying the **B2 level of English** language. Note: uploading this document certifies that you want to apply for the Business Analytics track, but it does not preclude any interest in the Italian tracks.

OPTIONAL DOCUMENTS

- A copy of a valid residence permit, if already held.
- Adaptation request form for students with disabilities (*only for programmes that entail meetings or exams*). Further information is available at <http://www.studentidisabili.unibo.it/servizi-agli-studenti/richiesta-di-adattamenti-per-le-prove-di-ammissione>

Remember

- that the committee will only assess documents uploaded through the online application. Any mandatory documents that are missing or only partially uploaded by the application deadline shall result in the candidate not being considered (or selected).
- that documents must not be sent by post or e-mail.

SECTION 6 – ADMISSION AND MATRICULATION

If you are admitted to the degree programme you will be notified via the website www.studenti.unibo.it as of the date indicated in the general calendar and the outcome will also be communicated to the institutional mail (@studio.unibo.it).

Remember that if you are not admitted to the Programme, you cannot participate in subsequent rounds.

If you are admitted to the master’s degree programme, you must matriculate from July 21st 2022 to October 27th 2022 without late payment (*mora*) or from October 28th 2022 to November 24th 2022 with late payment (*mora*).

You must:

1. **Login to [Studenti Online](http://www.studenti.unibo.it) (www.studenti.unibo.it)** entering the username and password obtained when registering for the selection procedure.
2. **Select "matriculation"**, then select "Second-cycle Degree", and then the degree programme "Statistics, Economics and Business".
3. **Submit on-line** the required data and attach a JPG file containing a passport-size photo of your face. Remember that in case of false statements, in addition to incurring the penalties established by art. 496 of the Penal Code, you will automatically lose the right of registration and any benefits obtained, without being entitled to any refund of the sums paid.
4. **Pay the first instalment** following the instructions on the website www.studenti.unibo.it.

Methods of payment different from those listed on the [Studenti Online](http://www.studenti.unibo.it) site are not allowed.

After you have paid your matriculation fee, check on [Studenti Online](http://www.studenti.unibo.it) to see how to activate the programme.

By logging in with your SPID credentials and using them during matriculation, after making the payment, your university career will be activated directly without any further fulfillment.

With the activation of the career it will be possible to use services such as the presentation of the study plan, the booking of exams, the access to the Wi-Fi network and to the online library resources and to carry out career actions (course transfer, transfer to another university, drop out of studies); it will also be sent an email that allows you to print the badge, in the manner that will be indicated.

If you fall into the cases listed below, you are required to verify the following in order to matriculate:

- a) If you are a **student with disability** with recognised invalidity of at least 66%, and those whose disability is recognised by law 104/92, in order to activate your career, you must send to the relative [student administration office](mailto:segecosta@unibo.it) the certification attesting to your disability (mail address segecosta@unibo.it) <https://www.unibo.it/en/services-and-opportunities/study-grants-and-subsidies/exemptions-and-incentives/exemptions-for-disabled-students>.
- b) If you are a **student requesting recognition of previous careers**, after matriculation and **by November 24th 2022**, you must send to the Student administration office at segecosta@unibo.it the form downloadable from the University portal at the site: <https://www.unibo.it/en/teaching/enrolment-transfer-and-final-examination/shortening-of-the-degree-programme> in the manner published on the same page.
- c) if you are a **non-EU citizen with an equivalent qualification obtained in Italy**: you must send to the Student administration office at segecosta@unibo.it a copy of the valid residence permit allowing the equivalence.

d) STUDENTS WITH FOREIGN QUALIFICATIONS

Having completed the above steps, check [the documentation necessary](#) for matriculation (Extended link <https://www.unibo.it/en/teaching/enrolment-transfer-and-final-examination/enrolling-in-a-second-cycle-degree-programme-foreign-qualification>).

Remember that the documentation submitted in your application for admission (e.g., degree, transcript, etc.) must be [translated and their authenticity and value must be verified, where required](#)

Extended link (<https://www.unibo.it/en/teaching/enrolment-transfer-and-final-examination/declaration-of-value-translation-and-legalization>)

You must upload the documents related to foreign qualifications on the [Studenti Online](#) application by clicking on "CALL FOR APPLICATIONS" and then "Matriculation for the 22_23 academic year - document upload for international students with foreign qualifications", **by and no later than February 28th 2023**.

When you arrive at the University of Bologna, you must make an appointment with the International Student Administration Office in Bologna or the Student Administration Office for your campus in order to show the original copies of your documentation.

e) **NON-EU STUDENTS AND RESIDENTS ABROAD**

In addition to the above, you must pre-enrol on University and request an entrance visa for study purposes.

[Click here to learn how](#). – (extended link <https://www.unibo.it/en/teaching/enrolment-transfer-and-final-examination/visa-and-rules-for-residence-in-italy/before-leaving-home-entry-visa>)

You will have to follow the procedures defined by the Ministry of University and Research (MUR) with special circular (Circular MUR) which will be published on this website: <https://www.unibo.it/en/teaching/enrolment-transfer-and-final-examination/non-eu-students-with-residency-abroad-reserved-quotas-pre-enrolment-visas-and-italian-language-tests>

The activation of the career must take place no later than February 28th 2023, otherwise the matriculation will be cancelled.

NOTE: If you have a conditional offer, remember that you must obtain your undergraduate degree in order to activate you career. If you graduate from the University of Bologna, your degree will be directly recognized by the systems; if you graduate from another University, you must enter in [Students Online \(www.studenti.unibo.it\)](#) in the details of the matriculation practice and enter the degree grade by typing the appropriate button "insert degree grade".

Candidates enrolled under condition (*sub condizione*) who do not meet this requirement **by December 30th 2022**, will be immediately excluded from the enrolment procedure, even if usefully placed in the ranking of merit and already matriculated.

FEES AND BENEFITS

The enrolment fees, net of the first instalment, for the 2022/2023 academic year and information on benefits and exemptions will be published on the University website on the page www.unibo.it/Tasse.

Remember that your contribution will be calculated on a progressive scale based on a valid ISEE certificate only if submitted in accordance with the terms and procedures set out on the web page www.unibo.it/Tasse. If you do not submit an ISEE, you will have to pay the full tuition fees relevant to your degree programme.

Information on other benefits can be found on the University website on the page <https://www.unibo.it/en/services-and-opportunities/services-and-opportunities>.

If you are interested in **benefits related to the right to higher education**, you can consult the relative call published by the Regional Authority for the Right to Higher Education on the website www.er-go.it.

If you are already enrolled in other courses of study, before transferring, carefully consult the merit requirements for access to benefits, indicated in the notice published on www.er-go.it because your career, following the transfer to the course of destination, is evaluated starting from the year of first enrolment at the university, regardless of the awards obtained or the year of the course to which you will be admitted by the Board of Studies. This may result in loss of benefits.

If you are a **student with disability** with recognised invalidity of **at least 66%**, and those whose disability is recognised by **law 104/92**, you can obtain an exemption by sending to the mail address segecosta@unibo.it the relative [student administration office](#) the certification attesting to your disability (for more information: <https://www.unibo.it/en/services-and-opportunities/study-grants-and-subsidies/exemptions-and-incentives/exemptions-for-disabled-students>).

SECTION 7 – CONTACTS

Student Administration Office

Email segecosta@unibo.it

[click on the link www.unibo.it/SegreteriaStudenti](http://www.unibo.it/SegreteriaStudenti) to find out how to get access

For information on the admission procedure

Tutor Business Analytics: didatticasociale.clamsei-ba@unibo.it

For information on immigration regulations in Italy:

internationaldesk@unibo.it

For technical problems related to the online application process:

(StudentiOnLine): help.studentionline@unibo.it