

Rectress' Decree no. 1962/2024

Faculty of:

Pharmacy and Medicine Medicine and Dentistry Medicine and Psychology

2024-2025 ACADEMIC YEAR

Call for applications with admission procedures for the Bachelor's English Degree Programme in

Nursing

Class: L/SNT1

Restricted access degree programme

Code to be inserted for admission test registration: 28614

Please note: terms relating to persons are given in the masculine form for the sole purpose of ensuring better readability of the text but refer indiscriminately to all genders.

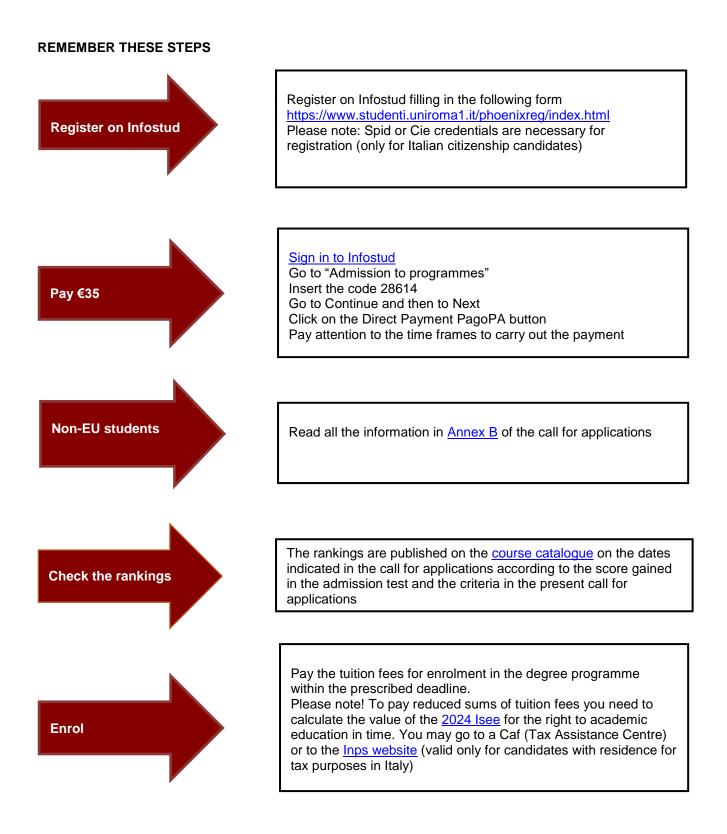


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HAVING REGARD TO	the Law August 2, 1999, no. 264, including regulations on admission to academic programmes;
HAVING REGARD TO	the Ministerial Decree October 22, 2004, no. 270;
HAVING REGARD TO	the resolution of the Pharmacy and Medicine Faculty Committee of February 20, 2024;
HAVING REGARD TO	the resolution of the Medicine and Dentistry Faculty Committee of February 21, 2024;
HAVING REGARD TO	the resolution of the Medicine and Psychology Faculty Committee of February 20, 2024;
HAVING REGARD TO	the resolution of the Board of Governors of June 25, 2024;
HAVING REGARD TO	the resolution of the Academic Senate of June 24, 2024;
HAVING REGARD TO	the Ministerial Decree July 31, 2024, no. 1116

DECREES

For the 2024-2025 academic year, enrolment in the interfaculty restricted access bachelor's degree programme in Nursing is subject to successfully passing an **admission test**.

Degree Programme	Provisional places for EU candidates (see Note 1)	Places for non-EU candidates residing abroad (see Note 2)
Nursing L-SNT/1 Class	17	1

Note 1 - Italian citizens, EU citizens wherever resident, and non-EU citizens legally residing in Italy according to art. 26 of Law no. 189/2002

Note 2 - Candidates from non-EU countries permanently resident abroad who must apply for a visa and Chinese citizenship candidates taking part in the "Marco Polo" project selected for Sapienza. Should applications for enrolment from non-EU students permanently resident abroad be fewer than the places available, the unfilled places will be made available to EU students

Please Note

The number of places available will be defined after the issuing of the ministerial Decree on the planning of final places for the 2024-2025 academic year.

Once the planning mentioned above is determined, the number of places available will be published on the course catalogue <u>https://corsidilaurea.uniroma1.it/en</u> on the degree programme page.

Please note: any remaining unfilled places within the ranking for non-EU candidates resident abroad are made available, with regard to the same Degree Programmes, for EU candidates and non-EU candidates legally residing in Italy referred to in article 26 of Law no. 189/2002, in time for the relating ranking updates.

1. Admission requirements

Candidates:

- a. with Italian citizenship;
- b. from other EU countries and from non-EU countries legally residing in Italy (equated non-EU candidates) referred to in article 26 of the Law no. 189/2002 (see point B1 of Annex

B of the present call for applications);

must hold a **high school diploma** obtained or to be obtained in the year 2024 (for foreign educational qualifications, see Annex B of the present call for applications, <u>point B3</u>);

- c. from non-EU countries residing abroad who must apply for a student entry visa, including Chinese students on the Marco Polo project, must follow the procedures in this call for applications and are included in a specific ranking within the quota set aside for them if they meet the following requirements:
 - high school diploma gained or to be gained in the year 2024 (for foreign educational qualifications see Annex B of this call for applications, <u>point B3</u>);
 - online pre-enrolment application, to obtain an entry visa for study "University enrolment" for the 2024-2025 academic year, on the Universitaly website (https://www.universitaly.it/) already submitted by June 28, 2024. Pre-enrolment on the Universitaly website is mandatory in order to obtain the student visa. Please note: preenrolment by itself does not allow admission to degree programmes. To enrol it is necessary to complete the procedures laid down by Sapienza University of Rome for the chosen degree programme. For information: https://www.studiare-in-italia.it/studentistranieri/

https://www.uniroma1.it/en/pagina/office-students-international-degrees

Candidates already holding an academic qualification (earned in Italy or abroad) and candidates transferring from other degree programmes or university diplomas must follow the same procedures indicated in the following points and must take the admission test in the case of enrolment in the first year of the degree programme.

1.1 – Enrolments in years following the first due to degree programme change, transfer, or degree programme abbreviation

Applications to enrol in years following the first in the Nursing degree programme due to:

- transfers from other Italian or foreign universities;
- degree programme change from other Sapienza degree programmes (it should not be understood as merely a change of location for the same degree programme).
- degree programme abbreviations (for candidates holding an Italian or foreign academic qualification)

can be submitted in compliance with the methods and deadlines indicated in the specific Notice for years following the first 2024-2025 academic year and will be considered upon assessment of the student's career, within the limit of places available and in accordance with the national planning.

The Notice is published on the Healthcare Professions at the following link Student Affairs Office <u>https://www.uniroma1.it/en/pagina/student-affairs-office-faculty-healthcare-professions</u>

2. Date and time of the admission test

The admission test will take place on Monday, September 9, 2024.

Candidates must be present in the test halls they have been assigned to at 9.00.

The admission test will begin at 11.00.

3. Registration for the admission test: deadlines and procedures

Participation in the admission test is subject to the payment of an admission test registration fee.

3.1 – Admission test registration fee

To register for the admission test, candidates must pay a €35 fee **from August 2, 2024, and within August 28, 2024**.

The payment is generated on Infostud and must be done online with PagoPA (direct payment).

Instructions

- Access the page https://www.uniroma1.it/en/pagina-strutturale/students
- sign in with personal SPID or CIE access credentials (international students sign in with student ID number/password);
- Click on the "Bachelor's and Master's Degree Programmes" button (this step is not required when signing in through the app);
- go to "Admission to programmes";
- insert the admission test code 28614;
- go to Continue and then Next;
- click on PagoPA, selecting the direct payment method (method 1).

For further information on payment methods, see the page <u>https://www.uniroma1.it/en/pagina/payment</u>.

The admission test fee will not be reimbursed for any reason.

Please Note

The email address given on Infostud when registering must be correct and valid and must be constantly checked during all the stages of the procedure because the University will use it for possible communications.

Candidates who are already registered on the Infostud system must verify/insert their email address through the function PROFILE (*Profilo*) > PERSONAL DATA (*Dati personali*) Contacts section (*Contatti*)

Applications sent via post or payments made with different methods from those described **will not be considered.**

Candidates who registered, even if by mistake, for a different admission test **will not be allowed to** take the test.

3.2 – Candidates with disabilities or Specific Learning Difficulties

Candidates with disabilities or specific learning difficulties are entitled to additional time than ordinarily defined for the admission test and may request specific aids in relation to their personal necessities. Requests must be submitted when paying the registration fee for the admission test. The operating methods are indicated in <u>Annex C</u> of the present call for applications.

4. Test halls and how the test will be carried out

Admission test halls

The test halls for the admission test will be published on **September 5**, **2024**, on the course catalogue <u>https://corsidilaurea.uniroma1.it/en</u> on the degree programme page.

Identification procedure

Candidates will be allowed to enter the test halls only after the identification procedures are completed: it is, therefore, mandatory to show a valid ID document and the payment receipt.

How the test will be carried out

After the identification procedures, each candidate will receive:

- an envelope containing the test and the answer sheet that the candidate will use to answer the questions;
- a pre-printed data sheet with the candidate's data.

During the admission test, under penalty of exclusion, candidates cannot:

- keep bags or backpacks, books or notes, paper sheets, mobile phones and other electronic devices;
- exchange information or have verbal contact with other candidates.

The board of supervisors during the admission test will be composed of the President and units of the administrative staff (in a variable number proportional to the number of candidates per test hall)

5. Topics of the test and assessment criteria

Based on the syllabuses referred to in <u>Annex A</u>, which is an integral part of the present Decree, the admission test consists of a total of sixty (60) multiple-choice questions with five answer options, between which candidates have to select only one, rejecting conclusions that are wrong, arbitrary, or less likely, on topics concerning:

- reading skills and knowledge acquired during studies;
- logical reasoning and problems;
- biology;
- chemistry;
- physics and mathematics.

Based on the syllabuses referred to in <u>Annex A</u>, which is an integral part of the present call for applications, the test questions are organised as follows:

- four (4) questions on reading skills and knowledge acquired during studies;
- five (5) logical reasoning and problems questions;
- twenty-three (23) biology questions;
- fifteen (15) chemistry questions;
- thirteen (13) physics and mathematics questions.

The time given to carry out the test is 100 minutes.

The test assessment is carried out taking into account the following criteria:

- 1,5 points for each correct answer
- 0 point for each ungiven answer;
- -0,4 points for each wrong answer.

In the event of a tie, the candidate score that will prevail is the one achieved, in descending order, respectively, in biology, chemistry, physics and mathematics, logical reasoning and problems, reading skills and knowledge acquired during studies.

In the event of a tie between one or more candidates with invalidity holding a certificate of invalidity equal to or higher than 66% or disabled candidates with certificate referred to in law no. 104 of 1992 art 3, paragraph 3, and candidates who do not belong to the aforementioned categories, the candidate with certified invalidity equal to or higher than 66% or the disabled candidate with certificate referred to in law no. 104 of 1992 art 3, paragraph 3, will prevail.

In the event of a further tie, beyond the hypothesis laid down in the previous paragraph, the younger candidate will prevail.

Please note: the test is regarded as not having been passed where a candidate obtains an overall score equal to zero or below zero.

6. Further Required Courses (OFA)

Further Required Courses (*OFA*) in Biology, Chemistry and Physics will be assigned following the outcome of the test.

The number of correct answers, per subject, below which Further Required Courses (*OFA*) will be assigned is:

Subject	Number of correct answers
Biology	11
Chemistry	7
Physics	6

In relation to this type of requirement, students will be informed of the methods for recovering these knowledge gaps via the Faculty websites and the institutional websites of each Degree Programme. Further Required Courses (*OFA*) are deemed to have been completed with the passing of the relevant remedial test (*OFA test*), the date and classroom of which will be communicated at the end of the *OFA* remedial course.

Failure to complete the Further Required Course entails the impossibility, as of the 2025-2026 academic year, of taking exams relating to years subsequent to the first.

7. Rankings and enrolment deadlines

The rankings for each degree programme will be published with the candidates' student ID number by **September 19, 2024,** on the course catalogue <u>https://corsidilaurea.uniroma1.it/en</u> on the degree programme page.

Successful candidates must carry out enrolment by September 24, 2024.

Successful candidates who are going to have an academic qualification within **November 30, 2024**, must send to the Healthcare Professions Student Affairs Office by **September 24, 2024**, a confirmation of their interest in enrolling as soon as they gain their degree, using the form "precautionary application" (*Domanda cautelativa*) that can be downloaded at https://www.uniroma1.it/en/pagina/student-affairs-office-faculty-healthcare-professions in the

https://www.uniroma1.it/en/pagina/student-affairs-office-faculty-healthcare-professions in the downloads section.

After filling it in, the form must be sent to the email address of the Healthcare Professions Student Affairs Office (see <u>point 11</u>).

Candidates who do not enrol within the prescribed deadline will be deemed to have given up their place.

Any unfilled place will be given to subsequent candidates according to the ranking.

For this reason, subsequent rounds of ranking updates for runners-up will be published with the following deadline calendar:

September 27, 2024	publication of the first round of runners-up
October 3, 2024	enrolment deadline

Candidates interested in such ranking update that are going to have an academic qualification within **November 30, 2024**, must send a declaration to the Healthcare Professions Student Affairs Office by **October 3, 2024**, to confirm their interest in enrolling as soon as they gain their degree.

October 9, 2024	publication of the second round of runners-up
October 14, 2024	enrolment deadline for the relative round of runners-up

Candidates interested in such ranking update that are going to have an academic qualification within **November 30, 2024**, must send a declaration to the Healthcare Professions Student Affairs Office by **October 14, 2024**, to confirm their interest in enrolling as soon as they gain their degree.

October 17, 2024	publication of the third round of runners-up
October 22, 2024	enrolment deadline for the relative round of runners-up

Candidates interested in such ranking update that are going to have an academic qualification within **November 30, 2024**, must send a declaration to the Healthcare Professions Student Affairs Office by **October 22, 2024**, to confirm their interest in enrolling as soon as they gain their degree.

Please note: the University reserves its right to manage any further rounds of runners-up, these will be published on the course catalogue <u>https://corsidilaurea.uniroma1.it/en</u> on the degree programme page.

The publication of the news relative to a ranking update subsequent to those scheduled previously serves as an official communication and notification for all legal purposes.

Candidates are kindly invited to check the degree programmes' pages daily.

Candidates are invited to check their email inbox for possible communications from the University.

Please note

Successful runner-up candidates who fail to carry out enrolment within the prescribed deadline will be deemed to have given up their place (following the same reasoning stated previously), and the unfilled places will be given to subsequent candidates according to the ranking.

Enrolment procedures are indicated in point 8.

8. Enrolment

Enrolment is carried out by paying the first instalment of tuition fees for the 2024-2025 academic year, to which the €16,00 stamp duty and the regional tax must be added.

The enrolment procedure is described on the page available at the following link: <u>https://www.uniroma1.it/en/pagina/infostud-enrolment</u>

The enrolment code to be inserted is 28614.

During the enrolment procedure, circumstances which may exempt students from paying enrolment tuition fees and regional tax can be indicated. Students who are not required to pay enrolment tuition fees proceed to enrolment on payment of the €16,00 stamp duty only.

It is extremely important at this stage to have **the calculation of the 2024 Isee for the right to academic education** to benefit from the exemptions and reductions that this indicator provides for (see <u>Annex D</u>).

Information on the sums and the reductions for students with residence for tax purposes in Italy can be found at this link: <u>https://www.uniroma1.it/en/pagina/tuition-fees-and-grants</u> Information on the sums for students with residence for tax purposes abroad is available at this link: <u>https://www.uniroma1.it/en/pagina/tuition-fees-and-grants#fees-for-students-with-foreign-citizenship-and-or-foreign-income</u> Payments must be made through **direct payment**. For further information on payment methods, consult this web page <u>https://www.uniroma1.it/en/pagina/payment</u>.

8.1 – Successful candidates with a foreign educational qualification

Successful candidates holding a foreign education qualification must follow the procedures in <u>Annex B</u> of the present call for applications (<u>point B3</u>)

8.2 – Successful candidates enrolled in other degree programmes at Sapienza University of Rome – Degree programme change

Successful candidates already enrolled in another degree programme at Sapienza University of Rome must submit an application for a degree programme change using the form "Degree change with exam recognition (*"Passaggio di corso con riconoscimento esami"*) available on the University website, in the Downloads section of the following page https://www.uniroma1.it/en/node/28758

The degree programme change application must be sent by email no later than the enrolment deadline indicated in <u>point 7</u>, including among the e-mail recipients both the student affairs office of the degree programme they are enrolled in and the student affairs office of the degree programme they wish to enrol in (see <u>point 11</u>).

In the email addressed to the student affairs offices you must declare that you are a successful candidate and specify your position in the ranking list.

Please note: after submitting the application for transfer, it will no longer be possible to take exams within the degree programme you came from.

8.3 – Successful candidates coming from other Italian Universities - Transfer

Successful candidates from other Italian universities must pay the enrolment tuition fee for their chosen degree programme no later than the deadlines set out in <u>point 7</u> and submit a transfer application to their university of origin.

Within ten days from enrolment, they must send the following to the e-mail address of the student affairs office (see point 11):

- the incoming transfer form available on the university website, in the Downloads section of the following page https://www.uniroma1.it/en/node/28758

- the receipt for the transfer application to the university of origin.

The student affairs office will generate the incoming transfer fee payment slip.

Please Note: after payment of the transfer fee, it will no longer be possible to sit exams for the degree programme of origin.

8.4 – Successful candidates already holding an Italian academic qualification

Successful candidates already holding an Italian academic qualification who want to request a degree programme abbreviation or the recognition of credits (ECTS) gained during the previous degree programme, must submit an application with \in 16,00 stamp duty to the Student Affairs Office (see <u>point 11</u>) within the deadlines indicated in <u>point 7</u>.

Such students must:

- Pay the tuition fees;
- activate their institutional email address following the instructions indicated on the University's website at the following page <u>https://www.uniroma1.it/en/pagina/email-google-apps;</u>
 send a ticket to the student affairs office of their degree programme

<u>https://tts.uniroma1.it/otrs/customer.pl</u> selecting the Programme shortening service (*Abbreviazione di Corso*) and filling in the relative form.

Students coming from other Universities must attach a self-certification of the academic qualification they hold with the complete list of exams taken and the relative grades obtained, the Scientific-Disciplinary Sectors (SSD), and the ECTS acquired.

The Faculty's competent bodies will evaluate the request.

8.5 – Successful candidates with a foreign academic qualification

Successful candidates already holding a foreign academic qualification who want to apply for a degree programme abbreviation or the recognition of exams taken abroad must follow the instructions indicated in Annex B (see <u>point B4</u>)

9. Mandatory vaccinations

Successful students, when enrolling, declare their commitment to have the tuberculosis Mantoux test done, within 60 days from enrolment, as indicated in the guidelines for tuberculosis assessment (Agreement of February 7, 2013, of the State-Regions Conference published in the Government Gazzette no. 63 of March 15, 2013) and in the Presidential Decree of November 7, 2001, No. 465, that rules the anti-tuberculosis vaccination; this test will have to be done at the *ASL* (Local Health Board) of the candidate's place of residence.

Furthermore, it is recommended, by virtue of the Law No. 165 of May 27, 1991, to have the vaccine against viral hepatitis B done, available for free, for those who work, study or volunteer in the healthcare sector, at the *ASL* (Local Health Board) of the municipality of residence.

Please note

Students enrolled in the Nursing degree programme must undergo mandatory vaccinations, as indicated above.

Instructions

- 1. Undergo the medical examinations and/or vaccinations.
- 2. Have the medical certificate form available at the link in brackets filled in, undersigned and stamped by their general medical practitioner or another doctor of trust (go to the form).
- 3. Keep all the documents and show them in the event of a request from the health facility to which one refers.

(https://www.uniroma1.it/it/node/27582).

10. Withdrawal procedure after enrolment

Candidates who, after having enrolled, wish to withdraw from enrolment in the degree programme must:

- activate their institutional email address in compliance with the methods indicated on the University website on the following page https://www.uniroma1.it/en/pagina/email-google-apps;
- send a ticket to the student affairs office of their degree programme in compliance with the following procedure: log in to the ticket platform https://tts.uniroma1.it/otrs/customer.pl select the student affairs office of the degree programme; select the Withdrawal from studies service (*Rinuncia agli studi*), fill in the relative form and upload the payment receipt for the stamp duty.

Non-EU citizens with a residence permit for study purposes who withdraw from studies Non-EU candidates with a residence permit for study purposes that formally withdraw from a programme in this or other Universities lose the requirements needed to stay in Italy, and their residence permit will be revoked. These students must apply for a new student entry visa as indicated in <u>point 1</u>.

11. Publication of information and useful contacts

The present call for applications is published on the degree programme webpage, in the course catalogue <u>https://corsidilaurea.uniroma1.it/en</u>

Any notices and updates will also be published on the degree programme page.

Useful contact information:

Healthcare Professions Student Affairs

Office	Rome, University Campus, P.le Aldo Moro, 5 Forensic Medicine Building – Building CU023 – third floor	
Opening hours	Monday, Wednesday, Friday, from 8.30 to 12.00 Tuesday and Thursday from 14.30 to 16.30 The office will be closed from august 12 to august 17	
Email	segrstudenti.professionisanitarie@uniroma1.it	
Skype	segreteria_professionisanitarie (during opening hours)	

CIAO - Centro informazioni accoglienza orientamento

Office	Rome, University Campus, P.le Aldo Moro, 5 Rectorate Portico
Opening hours	From Monday to Friday, from 9.30 to 17.00 The office will be closed from August 12 to August 17
Contacts	ciao@uniroma1.it, https://www.uniroma1.it/it/pagina/ciao-informazioni-gli-studenti

Hello - International Student Office

Office: Hello - International Student Office	Rome, University Campus, P.le Aldo Moro, 5 General Services Building – Staircase C – II floor
Opening hours	Monday, Wednesday, Friday, from 8.30 to 12.00 Tuesday and Thursday from 14.30 to 16.30 The office will be closed from August 12 to August 17
Skype	settore.studentistranieri (during opening hours)
Email and website	studentistranieri@uniroma1.it https://www.uniroma1.it/en/pagina/international-student-office
Office: Hello – International Student Help Desk	Rome, University Campus, P.le Aldo Moro, 5 Rectorate portico
Opening hours	From Monday to Friday, from 9.30 to 17.00 The office will be closed from August 12 to August 17
Email and website	hello@uniroma1.it https://www.uniroma1.it/it/pagina/hello-welcome-office

Office for students with disabilities and Specific Learning Difficulties

Office	Rome, University Campus, P. le Aldo Moro, 5 – Jurisprudence Building, ground floor, back entrance
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Contacts for candidates with disabilities	servizio.disabilita@uniroma1.it https://www.uniroma1.it/en/pagina/disability-and-specific- learning-difficulties The office will be closed from August 12 to August 17
Contacts for candidates with Specific Learning Difficulties	servizio.dsa@uniroma1.it https://www.uniroma1.it/en/pagina/disability-and-specific- learning-difficulties The office will be closed from August 12 to August 17
Contact information for admission tests	testaccesso.inclusione@uniroma1.it https://www.uniroma1.it/it/pagina/disabilita-e-dsa The office will be closed from August 12 to August 17

12. Responsible persons for the administrative procedure and competent court

In accordance with articles 4, 5 and 6 of Law 241/90, Daniela Boccanelli, Head of Unit of the Healthcare Professions Student Affairs Office, and for the information technology part, Alessandro Bonelli, Head of Unit of the Info Sapienza ICT area, are responsible for the administrative procedure.

In the event of any dispute, the competent court shall be the Court of Rome.

13. Information notice on personal data processing

Information notice on personal data processing, in accordance to the "General Data Protection Regulation" no. 679 of April 27, 2016 – art. 13, is published on https://www.uniroma1.it/it/node/202682

Rome, August 1, 2024

undersigned by THE RECTRESS

Annex A. Syllabuses of the admission test

Syllabuses relative to the questions in the admission test of the Healthcare Profession degree programmes

Admission to the above degree programmes requires the ability to understand and analyse various kinds of written texts, to carry out logical and mathematical reasoning along with general knowledge proficiency, especially with regard to the historical, geographic, social and institutional fields and in mathematics, chemistry, physics and biology.

The knowledge and abilities required are consistent with the educational activities provided by school institutions that organise activities and modules congruently with the Ministerial Programmes for national high school educational planning and with the regulations for technical and professional high schools, especially in view of the final State Exam.

Reading skills and knowledge acquired during studies

The ability to understand various types of written texts with different communicative purposes in the Italian language is a transversal competence, as all the questions will be formulated in Italian, also by using symbolic language. The following skills will also be specifically verified:

- comprehension in real contexts of abstract, unusual or specialised words;
- recognition of cohesion and coherence phenomena in a text;
- the ability to deduce and infer the informative aspects from the text.

Such skills will be verified by means of short scientific essays or classic and modern fiction texts or of topical texts published in daily newspapers and general-interest or specialised magazines. Based on texts of various kinds and about various topics, candidates' competencies acquired during

their previous studies and general knowledge or knowledge on topics relative to the current public debate will be assessed. In particular, the questions will verify:

- the ability to understand the space and time represented, that is to say, to locate in space and time relevant historical and cultural phenomena;
- knowledge of the main national and international institutions;
- comprehension of phenomena concerning the legal, economic and citizenship fields.

Logical reasoning and problems

The questions aim to assess the ability to logically complete reasonings coherently with the premises. Such premises are formulated symbolically or verbally and deal with cases and problems, also at the conceptual level, whose solution requires the adoption of various forms of logical reasoning.

Biology

- The chemistry of living things.
- The biological importance of weak interactions.
- Organic molecules in organisms and their respective functions. The role of enzymes.
- The cell as the basis of life. Cell theory. Cell size. Animal and plant prokaryotic and eukaryotic cells. Viruses.
- The cell membrane: structure and functions transport across the membrane. Cellular structures and their specific functions.
- Cell cycle and cell division: mitosis and meiosis chromosomes and chromosome maps.
- Reproduction and Inheritance. Life cycles. Sexual and asexual reproduction.
- Mendelian genetics: Mendel's laws and their applications.
 Classical genetics: chromosomal theory of inheritance inheritance patterns.

Molecular genetics: structure and replication of DNA, the genetic code, protein synthesis. Prokaryotic DNA. Eukaryotic chromosome structure. Genes and regulation of gene expression. Human genetics: mono- and multifactorial character transmission; hereditary diseases autosomal and linked to chromosome X.

- Mutations. Natural and artificial selection. Evolutionary theories. The genetic basis of evolution.
- Biotechnologies: recombinant DNA technology and its applications. Inheritance and environment.
- Anatomy and physiology of animals and humans. The animal tissues. Anatomy and physiology of systems and apparatuses in humans and their interactions. Homeostasis.
- Bioenergetics. The energy currency of cells: ATP. Redox reductions in living things. Energetic processes: photosynthesis, glycolysis, aerobic respiration and fermentation.

Chemistry

- The composition of matter: states of matter; heterogeneous and homogeneous systems; compounds and elements.
- Ideal Gas Laws.
- Atomic structure: elementary particles; atomic number and mass number, isotopes, electronic structure of different elements.
- The periodic table of elements: groups and periods; transition elements. Periodic properties of elements: atomic radius, ionisation potential, electronic affinity, metallic character. The relationships between electronic structure, position in the periodic table and element properties.
- The chemical bond: ionic, covalent and metallic bonds. Binding energy. Polarity of bonds. Electronegativity. Intermolecular bonds.
- Fundamentals of inorganic chemistry: nomenclature and main properties of inorganic compounds: oxides, hydroxides, acids, salts.
- Chemical reactions and stoichiometry: atomic mass and molecular mass, Avogadro's number, mole concept and its application, elementary stoichiometric calculations, balancing simple reactions, different types of chemical reaction.
- Solutions: solvent properties of water, solubility, the main ways of expressing the concentration of solutions.
- Equilibria in aqueous solution.
- Chemical kinetics and catalysis.
- Oxidation and reduction: oxidation number, concept of oxidising and reducing. Balancing of simple reactions.
- Acids and basis: the concept of acid and base. Acidity, neutrality and basicity of aqueous solutions. The pH. Hydrolysis. Buffer solutions.
- Fundamentals of organic chemistry: bonds between carbon atoms, crude formulas and structure formulas, the concept of isomerism. Aliphatic, alicyclic and aromatic hydrocarbons. Functional groups: alcohols, ethers, amines, aldehydes, ketones, carboxylic acids, esters, amides. Chemical nomenclature.

Mathematics

- Numerical sets and algebra: natural numbers, integers, rational numbers, real numbers. Sorting
 and comparison; scales and scientific notation. Operations and their properties. Proportions and
 percentages. Powers with integer and rational exponents and their properties. Roots and their
 properties. Logarithms (base 10 and base e) and their properties. Elements of combinatorics.
 Algebraic and polynomial expressions. Major products, nth power of binomial expansions,
 factorisation of polynomials. Algebraic fractions. Algebraic equations and inequalities of the first
 and second order. Systems of equations.
- Functions: basic concepts of functions and their graphical representation (domain, codomain, sign, maximum and minimum, increasing and decreasing, etc.). Elementary functions: whole and fractional algebraic functions, exponential, logarithmic and trigonometric functions. Composite and inverse functions. Trigonometric equations and inequations.
- Geometry: polygons and their properties. Circle and circumference. Measurements of lengths, surfaces and volumes. Isometries, similarities and equivalences in the plane. Geometric loci. Measurement of angles in degree and radians. Sine, cosine, tangent of an angle and their significant values. Goniometric formulas. Solving triangles. Cartesian reference system in a

plane. Distance between two points and the midpoint of a segment. Equation of a straight line. Conditions for parallel and perpendicular lines. Distance of a point to a line. Equation of the circle, the parabola, the hyperbola, the elipse and their representation in the Cartesian plane. Pythagoras' theorem. Euclid's theorems (first and second).

• Probability and statistics: frequency distributions and their graphical representations. Concept of random experiment and event. Probability and frequency.

Physics

- Physical quantities and their measures: Fundamental and derived physical quantities. Systems of measurements: International System and Technical System. Multiples and sub-multiples. Scientific notation. Main conversions between units of different systems of measurement. Scalar quantities and vector quantities. Vectors and operations on vectors.
- Kinematics: Description of motion. Velocity and angular velocity, acceleration and angular acceleration. Various types of motion with particular regard to uniform and uniformly rectilinear motion; uniform circular motion; harmonic motion.
- Momento di una forza e momento angolare. Lavoro ed energia cinetica. Forze conservative ed energia potenziale. Principio di conservazione dell'energia meccanica. Potenza. Dynamics: The concept of force as interaction of bodies. Forces as applied vectors. The law of inertia. Mass and the 2nd principle of dynamics. Examples of forces: weight, elastic force, static and dynamic attrition. Action and reaction: the 3rd law of dynamics. Impulse and quantity of motion. Law of conservation of the quantity motion. Moment of a force and angular moment. Work and kinetic energy. Conservative forces and potential energy. Law of conservation of mechanical energy. Power.
- Fluid mechanics: density and compression of fluids. Gases and liquids. Hydrostatics: pressure and Pascal's, Stevino's and Archimede's laws. Dynamic of liquids: unidimensional motion, flux and capacity, continuity equation. Ideal fluids and Bernoulli equation. Viscous forces in real fluids.
- Thermodynamics: equilibrium, concept of temperature, thermometers. Concept of heat and calorimetry. Mechanisms of heat propagation. Heat capacity, specific heat. Changes of state and latent heats. Ideal Gas Laws. First and second principle of thermodynamics.
- Electrostatic and electromagnetism: Electric charges. Forces between charges and Coulomb's law. Electric field and electric potential. Equipotential surfaces. Dielectric constant. Capacity, capacitors. Electrostatic energy. Capacitors in series and in parallel. Generators. Voltage. Electric current. Resistivity, resistance, resistors. Ohm's law. electrical resistors in series and in parallel. Kirchhoff's Principles. Power. Joule effect. Direct and alternating current. Period and frequency. Magnetic field of an electric current. Forces on electric currents in a magnetic field. Electromagnetic induction.

Annex B. International students

B.1 – EU citizens and equated non-EU citizens

The general procedures of the call for applications are followed by applicants who:

- are citizens of one of the countries of the European Union or of one of the following countries: Norway, Iceland, Liechtenstein, Switzerland, Republic of San Marino, Vatican City State;
- have dual citizenship, one of which is from an EU country;
- are citizens of a non-EU country, but hold one of the following residence permits issued by the Italian government:
- EU long-term resident permit;
- Residence permit for employment or self-employment;
- Residence permit for family reasons;
- Residence permit for political asylum, subsidiary protection or special reasons;
- Residence permit for religious reasons;
- Residence card Article 50 TEU Art 18.4 EU-UK withdrawal agreement
- are citizens of a non-EU country, but have been legally residing in Italy for at least one year and hold an upper secondary school qualification obtained in Italy giving access to the chosen degree programme;
- are citizens of a non-EU country and are enrolled in a degree programme at an Italian university, hold a valid residence permit for study purposes and intend to apply for a transfer or a transfer for years subsequent to their first year of enrolment;
- are citizens of a non-EU country and are members of staff (either themselves or a parent or spouse) in Diplomatic Representations or in international organisations with headquarters in Italy and which are accredited by the Italian Government or by the Holy See. Applicants must submit the residence permit for diplomatic reasons.

It should be noted that in the case of candidates with dual citizenship, one of which is Italian or that of another EU country, Italian citizenship or that of another EU country prevails (Law 218 of May 31, 1995, art. 19, paragraph 2) and it is therefore mandatory to follow the instructions provided for the category of EU citizens and EU equated citizens.

Please note that non-EU citizens holding a residence permit to study in Italy issued to attend an Italian language course or to spend a period of exchange/mobility **are not considered EU-equated citizens** and must therefore return to their country of origin and submit a formal visa application, as indicated in <u>point 1</u>.

For further information on the residence permit for study purposes consult the <u>dedicated page</u>

B.2 – Non-EU citizens resident abroad and applying for a visa

It is necessary to refer to the procedures for 'Non-EU citizens residing abroad and study visa applicants' for citizens of a non-EU country residing outside Italy or, in any case, not meeting the requirements to be treated as EU-equated citizens (as listed in <u>point b.1</u>)

B.3 – Enrolment for candidates with a foreign educational qualification

Applicants holding a qualification obtained abroad, to carry out enrolment within the deadlines set out in <u>point 7</u> must:

-Scan within a single PDF file the documents listed below:

- valid ID document (for all applicants);
- **entry visa** for study purposes "university enrolment" (academic year 2024-2025 for non-EU citizens permanently resident abroad and candidates applying for study visas) issued by the Italian Representation in the country of last residence;
- copy of the receipt for the application for the first residence permit for study purposes (only for non-EU citizens residing abroad and study visa applicants). For further information on the residence permit for study purposes, please consult the dedicated page;
- valid residence permit and any receipt for the renewal request (only for non-EU citizens legally residing in Italy. For further information on the residence permit for study purposes, consult the <u>dedicated page</u>;
- upper secondary school diploma (obtained after at least 12 years of schooling).

If the qualification was obtained in one of the countries listed in the following Automatic Recognition Database: <u>https://ardi.cimea.it/en</u> applicants are required to submit:

- **Copy of upper secondary school diploma** as indicated, accompanied by sworn translation in Italian or English
- Statement of comparability downloaded from https://ardi.cimea.it/en
- Statement of Verification issued by <u>CIMEA</u> (<u>https://cimea.diplo-</u> <u>me.eu/sapienza/#/auth/login</u>) or, alternatively, legalisation/apostille of the qualification itself.

If the qualification was obtained in a country NOT listed in the following Automatic Recognition Database: <u>https://ardi.cimea.it/en</u> applicants are required to submit

- Copy of upper secondary school diploma, accompanied by sworn translation in Italian or English
- Statement of Comparability and Verification issued by <u>CIMEA</u> (<u>https://cimea.diplo-me.eu/sapienza/#/auth/login</u>). Instead of the Statement of Comparability, it is possible to present the **Statement of Validity** issued by the Italian representation in the country to which the qualification refers. In this case, the qualification presented must be legalised (or with Apostille) both in its original version and in its translated version.

For further information on qualifications obtained in a non-Italian education system that are suitable for access to higher education, the following document is available, which lists most of the countries from which Sapienza University of Rome received the highest number of applications:

https://www.uniroma1.it/sites/default/files/field_file_allegati/entry_requirements_for_qualifications_awarded_by_non-italian_education_systems.pdf_0.pdf

- Send the resulting file to the "Hello-International Student Office" at the email address <u>studentistranieri@uniroma1.it</u> indicating in the subject line of the email the following obligatory wording: "Ready for enrolment + degree programme code and programme name + student ID + student surname and first name".
- **Carry out** the payment of University tuition fees within the deadlines set out in <u>point 7</u> following the specific instructions on the page https://www.uniroma1.it/en/pagina/infostud-enrolment

Further information on the documents required for enrolment and how to submit them can be found at the following link <u>https://www.uniroma1.it/en/pagina/international-student-office#3-mandatory-documents-for-enrolment-bachelor-s-degree-courses-and-single-cycle-degree-courses</u>

Once the administrative checks have been completed, the "Hello - International Student Office" unit reserves the right to request additional documentation if it deems it necessary or to deny admission to the programme for lack of requirements.

Moreover, to verify the authenticity of the documents submitted in digital format, the "Hello - International Student Office" will invite all enrolled international students in person to view the original paper documents.

Any further updates are available on the page:

https://www.uniroma1.it/en/pagina/international-student-office, or by contacting: studentistranieri@uniroma1.it

B.4 – Degree programme abbreviation for candidates with a foreign academic qualification

Those who have an international academic qualification and wish to request an abbreviation of their degree, or the recognition of university exams taken abroad, must submit a request with a \in 16.00 stamp duty to the Office for Students with International Qualifications within 30 days of their date of enrolment (<u>point 7</u>). These students must:

- Complete enrolment and pay tuition fees following the procedures indicated in <u>point 8</u> activate their institutional email account following the methods indicated on the university website at the page <u>https://www.uniroma1.it/en/pagina/email-google-apps;</u>
- Send a ticket to the Office for Students with International Qualifications
 <u>https://tts.uniroma1.it/otrs/customer.pl</u> filling in the application/request form, attaching
 the documents listed below:

IF THE ACADEMIC DEGREE HAS BEEN COMPLETED

- Academic qualification

If the qualification has been obtained in one of the countries listed in the following Automatic Recognition Database: <u>https://ardi.cimea.it/en</u> it is required to submit:

- **University degree** with corresponding exams certificate, both in the original version and accompanied by a sworn translation in Italian or English.
- Statement of Comparability downloaded from the website https://ardi.cimea.it/en

Statement of Verification issued by <u>CIMEA</u> (<u>https://cimea.diplo-</u>

<u>me.eu/sapienza/#/auth/login</u>) or, alternatively, legalisation/apostille of the academic qualification.

If the qualification has been obtained in a country NOT included in the following Automatic Recognition Database: <u>https://ardi.cimea.it/en</u> it is required to submit:

• **University degree** with corresponding exams certificate, both in the original version and accompanied by a sworn translation in Italian or English;

• Statements of Correspondence and Verification of the educational qualification and exams certificate issued by <u>CIMEA</u> (<u>https://cimea.diplo-</u>me.eu/sapienza/#/auth/login).

Instead of the Statement of Comparability, it is possible to submit:

- the Statement of Value (DoV) issued by the Italian representation in the country to whose university system the qualification refers. In this case, the qualification and exams certificate must be legalised (or with Apostille) both in their original version and in their translated version. OR
- 2) the **Diploma supplement** issued by the university where the qualification was obtained. It can only be accepted if it is complete with all the information needed to assess the university degree. In this case, both the degree and the Diploma Supplement must be legalised (or apostilled).

- A copy of the detailed syllabus for each subject, indicating the hours of teaching and theoretical-practical activities envisaged for the attainment of the foreign qualification,

with the original stamp of the University and a translation into Italian or English. A sworn translation is not required for this document.

IF THE ACADEMIC DEGREE HAS NOT BEEN COMPLETED

Students applying for an abbreviation based on a partial university course of study, for which the final degree has not been obtained, must submit

- **the exams certificate**, with a sworn translation in Italian or English. The originals and the translation must be duly legalised (or apostilled).
- A copy of the detailed syllabus for each subject, indicating the hours of teaching and theoretical-practical activities envisaged for the attainment of the foreign qualification, with the original stamp of the University and a translation into Italian or English. A sworn translation is not required for this document.

For further information on qualifications obtained in a foreign education system that are eligible for access to higher education, the following document is available, which lists most of the countries from which Sapienza University of Rome received the highest number of applications:

https://www.uniroma1.it/sites/default/files/field_file_allegati/entry_requirements_for_qualifications_awarded_by_non-italian_education_systems.pdf_0.pdf

Once the administrative checks have been completed, the "Hello – International Student Office" reserves the right to request further documentation if it deems it necessary and to reject the application if the necessary conditions are not met. Any further updates and information can be found at:

https://www.uniroma1.it/en/pagina/international-student-office, and by contacting: studentistranieri@uniroma1.it

Once the necessary checks on the international qualifications submitted have been completed, the student's request will be sent by the Hello International Student Office to the relevant student affairs office for administrative procedures.

The assessment of the application will be carried out by the competent Faculty bodies.

Annex C. Services for disabled students or students with Specific Learning Difficulties

C.1 – Candidates with a recognised disability/invalidity

Candidates with a recognised disability pursuant to art.3, paragraph 1 or 3 of the law February 5, 1992, no. 104 or with a certificate of invalidity who require special aids or extra time to carry out the test, must request them explicitly on the Infostud System during the procedure for the generation of the admission test fee and send the certificate to testaccesso.inclusione@uniroma1.it

Information on the procedure is available on the page <u>https://www.uniroma1.it/en/pagina/disability-and-specific-learning-difficulties</u>

Candidates are allowed up to 50% extra time than ordinarily defined for the test.

Particular situations will be examined, taking into account the certificates presented.

These requests must be accompanied by adequate certification issued by *INPS* or by the National Health Service competent bodies.

C.2 – Candidates with Specific Learning Requirements

Students with Specific Learning Difficulties, referred to in law no. 170/2010 and in the Ministerial Decree no. 5669/2011, who require special aids to carry out the test based on the type of Specific Learning Difficulty, must request them explicitly on the Infostud System during the procedure for the generation of the admission test fee and send the certificate to testaccesso.inclusione@uniroma1.it

Information on the procedure is available on the page https://www.uniroma1.it/en/pagina/disability-and-specific-learning-difficulties

Candidates are allowed:

- extra time equal to 30% more time than ordinarily defined for the test;
- to use a simple non-scientific calculator based on the certificates presented.

These requests must be accompanied by adequate certification of the Specific Learning Difficulty. The certificates must be issued by national health services or by national health service-approved specialists and health structures. The student must produce documentation proving the accreditation of the structures that produced the certification that is sent if this is not explicitly stated within the certification.

The Specific Learning Difficulty certificate must be detailed and clear, indicating the nosographic classification and a specific definition of the Specific Learning Difficulty (in reading and/or writing and/or numeracy). The diagnosis made for a minor must be not more than three years old.

C.3 – Candidates with disability/invalidity and Specific Learning Difficulties resident abroad

Candidates with disabilities or Specific Learning Difficulties residing abroad who intend to avail themselves of the measures mentioned above must present the certificate attesting the disability or Specific Learning Difficulty issued in the country of residence, accompanied by a sworn translation either in Italian or English.

Annex D. Isee for the right to academic education

The Isee (Equivalent economic status indicator) for the right to academic education is necessary to obtain tuition fees reductions (the lower the Isee, the lower the sums to be paid).

The calculation of the Isee value for the right to academic education must be requested from a Tax Assistance Centre (CAF) after January 15, 2024, and at least 30 days before the prescribed deadline for pre-enrolment.

Candidates with the PIN code or the SPID digital identity (unique code to access all the services of the Public Administration) may also request the 2024 Isee calculation directly online, submitting the DSU (Unique Replacement Statement) on the INPS website (www.inps.it/).