Call for Application
A.Y. 2023/2024
Single-cycle Master’s Degree Courses
LIMITED ENROLMENT in
MEDICINE AND SURGERY

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Terms relating to individuals appearing in the generic masculine form in this Decree refer indistinctly to female and male individuals. Explication of gender with the dual masculine/feminine form was avoided in order not to compromise the readability of the text and to meet the need to simplify it.

Art. 1. APPLICATION PROCEDURE, STUDY COURSES AND NUMBER OF STUDENTS ADMITTED
The University of Calabria announces the call for applications to the first year of the single-cycle, professional-qualifying Master’s Degree Courses for the academic year 2023/2024 in:
● Medicine and Surgery DT (Digital Technologies)
● Medicine and Surgery DT (Digital Technologies) - (inter-athenaeum with Magna Graecia University of Catanzaro)
in accordance with the terms of M.D. No. 1107 of Sept. 24, 2022 "Definition of the methods and contents of the so-called "TOLC" test for admission to the bachelor’s and master’s degree single-cycle courses in medicine and surgery and dentistry and dental prosthetics and veterinary medicine in Italian for the a. y. 2023/2024" and by Decree No. 1925 of Nov. 30, 2022 "Procedures for the organization of the "TOLC" test and the subsequent creation of merit ranking lists for admission to single-cycle master’s degree courses in Medicine and Surgery and Dentistry and Dental Prosthetics and Veterinary Medicine." The procedure is divided into three separated steps:

1) Step 1: taking the TOLC-MED (Article 3). A repeatable test, administered through the CISIA (Consorzio interuniversitario sistemi integrati per l'accesso – Interuniversity Consortium for Integrated Access Systems) computer platform, which is an effective tool to verify an adequate entry level and to guide and support participants in making an informed choice of their educational path;

2) Step 2: Application submission for the inclusion in the national or local ranking lists, which allows participants to be selected for the relevant category (Article 4 and Article 5) after taking at least one TOLC-MED test useful for admission and after achieving additional qualifications and requirements necessary for ranking inclusion;

3) Step 3: In case of admission to the Course of interest, submission of enrolment application in the prescribed time and mode (Article 6).
The minimum duration of the Course is 6 years, at the end of which the single-cycle Master’s Degree qualifying for the profession related to the chosen Course is awarded.
The number of students admitted to the 1st year are shown in the following table:

<table>
<thead>
<tr>
<th>Degree class</th>
<th>Single-cycle master’s degree course</th>
<th>Places for EU citizens* and equivalent</th>
<th>Places for citizens extra-EU residents living abroad</th>
</tr>
</thead>
<tbody>
<tr>
<td>LM-41</td>
<td>Medicine and Surgery DT</td>
<td>60</td>
<td>3</td>
</tr>
<tr>
<td>LM-41</td>
<td>Medicine and Surgery DT (inter-athenaeum with Magna Graecia University of Catanzaro)</td>
<td>68</td>
<td>7</td>
</tr>
</tbody>
</table>

*of the European Union

Art. 2. STEPS 1 AND 2 OF THE TOLC (CISIA, Interuniversity Consortium for Integrated Access Systems, Online tests -)MED TEST: PROCEDURE AND ADMISSION IN THE RANKING LIST
In order to participate in the selection for admission to the single-cycle Master’s Degree Courses as referred to Article 1, applicants must compulsorily complete the first two steps, which are temporally separated:

1 provisionally pending the publication of ministerial decrees determining the number of students admitted

2 pending ministerial approval
1) **STEP 1:**
It consists of:
- registering in the portal www.cisiaonline.it;
- reserving and taking the "TOLC-MED", in one or both of the scheduled windows for the year 2023. The test is administered through CISIA’s computer platform and must be taken "at the university," at computer labs set up by universities.

Applicants can start this first step **exclusively** if they:
(a) have an upper secondary school diploma;
(b) will obtain the diploma in the 2022/2023 school year;
(c) will obtain the diploma in the 2023/2024 school year.

Candidates who meet the requirements in **Article 3.1** below may take a maximum of two TOLC-MED tests per calendar year, one for each test scheduled window.

The complete procedure for Step 1 can be found in **Article 3**.

2) **STEP 2:**
It consists of submitting an application for inclusion in the national (for EU citizens or equivalent) or local (for extra-EU citizens residing abroad) merit ranking.

Applicants can start the second step **exclusively** if they:
(a) have an upper secondary school diploma;
(b) will obtain the diploma in the 2022/2023 school year in time for enrolment in the A.Y. 2023/24.

In order to take part in the selection in the A.Y. 2023/2024, candidates can use the best "**score of equalisation** " (**Article 3.7**) obtained in the two TOLC-MED test windows, scheduled in the calendar year 2023 (**Article 3.3**).

2.a) **Step 2 for EU citizens or equivalent who have taken at least one TOLC-MED test by achieving the minimum score of equalisation required for admission:**
EU citizens or their equivalents, who have taken at least one TOLC-MED test by achieving the minimum score of equalisation required for admission (**Article 3.7.2**) must apply online to be included in the **national merit ranking in the A.Y. 2023/24**, according to the instructions available at [https://accessoprogrammato.miur.it/](https://accessoprogrammato.miur.it/) and **Article 4**.

2.b) **Step 2 for extra-EU citizens residing abroad:**
Extra-EU citizens residing abroad, who have **taken at least one TOLC-MED test** at the University of Calabria achieving the minimum score of equalisation required for admission (**Article 3.7.2**), must apply to be included in the **local merit ranking of the University of Calabria in the A.Y. 2023/24**, through the University of Calabria portal unical.esse3.cineca.it, according to **Article 5**.

**Art. 3. STEP 1: BOOKING AND TAKING THE TOLC-MED TEST**

In order to be accepted for the selection in the A.Y. 2023/24, it is necessary to sit the TOLC-MED test, a computer-based test to be taken in the IT labs set up by the universities through the platform provided by CISIA. The TOLC-MED is a test also having an orientation value, useful to assess the predisposition for Medicine and Surgery and Dentistry and Prosthodontics studies as well as an adequate entry level.

3.1 **Participation requirements for TOLC-MED test.**
The following are eligible to take part in the TOLC-MED test sessions in the year 2023 in order to be admitted to the Courses referred to **Article 1**:
1) candidates enrolled in the fourth or fifth year of Italian secondary schools, or who already have a diploma issued by a secondary education institution in Italy;
2) EU citizens, wherever they reside, and extra-EU citizens, regularly residing in Italy, as referred to Article 39, paragraph 5, of Legislative Decree No. 286 of July 25, 1998 as amended by Article 26
of Law No. 189 of July 30, 2002, who have a degree obtained abroad (with at least 12 years of schooling), recognized as equivalent to the secondary school diploma obtained in Italy, or who will obtain it by the 2023/2024 school year;

3) candidates enrolled in the second-to-last year of Italian or foreign secondary schools that allow to achieve a degree suitable to access the university courses;

4) extra-EU citizens residing abroad, regardless of passing the Italian language proficiency test, which is required for the purpose of enrolment in courses according to the provisions concerning the procedures for entry, stay, enrolment of international students and related recognition of qualifications in force for courses of higher education in Italy and available at the following web address: [http://www.studiare-in-italia.it/studentistranieri](http://www.studiare-in-italia.it/studentistranieri).

### 3.2 Test structure.

The TOLC-MED test consists of No. 50 questions with five answer options, out of which candidates must identify the only correct one, discarding incorrect, arbitrary or less likely conclusions.

The questions are divided into the following sections:

<table>
<thead>
<tr>
<th>Section</th>
<th>Number of questions</th>
<th>Maximum time available</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reading comprehension, acquired knowledge</td>
<td>7 questions</td>
<td>15 minutes</td>
</tr>
<tr>
<td>along study courses</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Biology</td>
<td>15 questions</td>
<td>25 minutes</td>
</tr>
<tr>
<td>Chemistry and Physics</td>
<td>15 questions</td>
<td>25 minutes</td>
</tr>
<tr>
<td>Mathematics and Reasoning</td>
<td>13 questions</td>
<td>25 minutes</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>50 questions</strong></td>
<td><strong>90 minutes</strong></td>
</tr>
</tbody>
</table>

Each section is given an allotted maximum time for question solving; the candidate can use all the time allotted to each section or close it early by giving up the remaining time, which cannot be made up in subsequent sections.

Details on the test topics can be found in All.no.1 to M.D. No. 1107 and referred to All. no. 1 to this call for application.

### 3.3 Scheduled windows for TOLC-MED tests in the year 2023.

The two windows for TOLC-MED tests, which are propaedeutic for the courses admission as referred to Article 1 for the academic year 2023/2024 (and for eventual admission for the A.Y. 2024/25) are as follows:

1) first window: from April 13th to April 22nd, 2023;


Each university guarantees the minimum number of students admitted to the TOLC-MED and TOLC-VET tests (Veterinary Medicine Admission Test referred to in M.D. No. 1107) as provided in All. No. 1 to M.D. No. 1925, by administering the tests within the available days and shifts for each window, according to the internal organization.

The University of Calabria guarantees at least 1,378 total seats for each of the two scheduled tests. Candidates may sit the TOLC-MED test only once for each scheduled window.

Candidates who have booked a TOLC-MED test at a university cannot enrol in another TOLC-MED test until they have taken the one previously booked. In case of absence, a credit is accrued in one's private CISIA test area. This credit can be used to register for a TOLC-MED or a TOLC-VET test even at a different university within the same calendar year. Further details on managing reservations are provided in the CISIA portal.

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3 Annex 1 to DD 1925
3.4 TOLC-MED procedures, registration deadlines and test venues

The registration for the TOLC-MED test must be done exclusively on the portal www.cisiaonline.it during the following timeframes:
- from March 13th up to April 3rd 2023 until 2 p.m. (GMT+2) for the first scheduled window (April 13-22, 2023);
- from June 15th up to July 5th 2023 until 2 p.m. (GMT+2) for the second scheduled window (July 15-25, 2023).

After registering in the portal www.cisiaonline.it, candidates must select the type of TOLC-MED test, the date and the university location, where they intend to sit the test, and state mandatorily:
- meet the requirements for participation in the test as stipulated in Article 4 of Ministerial Decree No. 1107 and referred to Article 3.1 of this call for application;
- comply with all directions and requirements that will be defined by the Universities pursuant to Article 12, paragraph 2, of Ministerial Decree No. 1107;
- acknowledge and accept the test rules and procedures indicated during the test registration and enrolment procedures.

EU citizens or equivalents may take the TOLC-MED test at any university that administers the test among those available, even if different from the one where they subsequently intend to enrol. On the contrary, citizens of extra-EU countries residing abroad must book and take the TOLC test at the university where they intend to apply to be included in the local merit ranking.

The test registration is deemed confirmed only when the receipt of payment and registration is available in the private area of the portal www.cisiaonline.it, in the "booking management" section; the fee for each test is 30 euros.

The tests organised by the University of Calabria will be administered in the classrooms later indicated on the page unical.it/admission/medicine23-24, along with all the necessary information for tests development.

Please note: The personal e-mail address entered in the CISIA private area upon registration is the channel of communication through which any deadlines and instructions useful for the test are provided. Emails sent for this purpose have the force of official communications.

In the www.cisiaonline.it portal, from March 13th, candidates will be able to access to:
- tutorials;
- disciplinary MOOCs (Massive Open Online Courses);
- links, materials and initiatives on orientation and access, arranged by the universities.

Additional information and free tools, provided by different universities, will be available at https://accessoprogrammato.miur.it/ to support university orientation and to improve applicants’ entry level.

After fifteen days following the first day of the test scheduled window, candidates will be able to access the results of the tests taken and also compare them to the results in aggregate form obtained by other participants in the same period/calendar year: a tool for assessing their own placement.

3.5 Test development

The examination board in charge of administering the test is appointed by Rector's Decree. During the test, the examination board will be helped by teaching and administrative personnel assigned to supervise and identify the candidates.

The examination board chairperson and classroom invigilators will properly organize activities of name calling, candidates’ identification, control and safekeeping of personal belongings which cannot be brought into the classroom (books, pens, pencils, stationery or any other suitable writing instrument, handbooks,
textbooks, school texts, even partial reproductions of them, handwritten notes, blank sheets and teaching and/or reference materials, cell phones, PDAs, smartphones, smartwatches, tablets, earphones, smart glasses or other similar devices, etc.).

3.5.1 The day of the test: candidates’ identification and seating, start of the test and cases of annulment

Candidates, booked for a TOLC-MED test at the University of Calabria, must arrive at the test venue on the assigned day and time with:

a) a paper printout of the registration and payment receipt, available in the private area of the CISIA portal;
(b) a valid identification document;
(c) the fiscal code, if owned;
(d) the credentials to access the CISIA portal.

Candidates are not allowed to sit the test, if, on the day of the test they:
✓ are without any identification document;
✓ are not on the enrolment lists provided by CISIA;
✓ have not correctly confirmed their registration by paying the required 30 euros.

The personnel appointed by the University will proceed to candidates’ identification, taking care to verify – through presentation of registration and payment receipts as well as of identification documents – that candidates are actually allocated to the given classroom and shift. In any case, candidates are not allowed to change classrooms and shifts.

Once candidates are checked their ID, the Invigilation Board will:
- hand over No. 2 draft sheets endorsed by the Examination Board and a pen. The endorsed sheets and pens must be returned by participants, before leaving the classroom, to the examination board, which takes care to verify that the same number of sheets provided has been handed back;
- remind that no other papers or pens are permitted during the test;
- assign the seats in the classroom, taking care to arrange the candidates adequately spaced and once entered the classroom, to place them sequentially in seats far apart, as well as to place them by age of birth, except for twins;
- have candidates log into their private area of the CISIA portal from their assigned computer workstation by entering login and password identification, as per instructions provided upon registration for the test.

The computer system displays biographical data, photo and reservation of the TOLC-MED test on screen. The assigned classroom staff verifies that the biographical data, shown on the screen, actually corresponds to the person sitting at the individual computer station and activates the system for the subsequent start of the test; the validation made by the classroom staff corresponds to the participant’s entry signature.

Before the start of the TOLC test, the classroom supervisor reminds candidates that:
(a) the test lasts a maximum of 90 minutes, except for candidates, who are entitled to additional time;
(b) each section has an allotted time. At the end of the maximum time for one section, candidates must proceed and start the next section as per instructions shown on the screen. Once got to the test last section, it is possible to finish the test correctly according to the instructions received by each candidate at the time of registration; candidates can use the entire time allotted for each section or close it earlier by giving up the remaining time;
(c) after the start of the test, candidates cannot leave the classroom until they have finished the test according to the instructions received at the time of registration and in any case not earlier than 60 minutes after the start of the test itself, in order not to disturb other candidates in the classroom.

Once checked and the read the instructions, the test can be started for all candidates in the classroom.
3.5.2 Test rules, recording and cases of annulment

The number of invigilators and examination board members, who will supervise in the classroom, is proportional to the number of candidates allocated (in accordance with the provisions of Article 4 of D.D. No. 1925). Candidates cannot in any way speak with the other candidates during the TOLC-MED, except for reasons strictly related to the proper administration of the test itself. However, if necessary, the examination staff can reprimand candidates, who try to communicate with others or to use unauthorized materials. For these reasons they can also order the possible expulsion from the classroom of those who break the rules, taking care to note such malpractice in the records, by stating that the test is cancelled in the presence of the candidate.

From the time the TOLC-MED begins, no candidates can leave their computer station, not even to use the restrooms, apart from exceptional cases evaluated by the classroom examination board. In such cases, a candidate will have to go to the restrooms and then return to his or her computer station accompanied by a member of the examination board or invigilation staff. In such cases, the temporary exit from the classroom will still take place at the end of a test section and before the start of the next one.

During the test, members of the examination board and invigilation staff verify that there is no communication of any kind among candidates or exchange of unauthorized materials. Furthermore, they ensure that sheets endorsed by the examination board and pens - provided to each candidate upon entering the room - are used only and exclusively for draft papers.

These materials must be returned to the examination board before leaving the classroom, so that subsequent destruction of the draft sheets can be arranged in the prescribed time and mode by current regulations.

The test must be cancelled by the Classroom Examination Board, according to the provisions of Decree No. 1925, if one or more of the following circumstances occur:

a) candidates take the test in a classroom other than the one assigned, whose lists they are registered in, unless expressly authorized by the Commission;

b) candidates have introduced cellular phones, PDAs, smartphones, smartwatches, smart glasses, or other similar devices into the classroom during the test, as well as introduced and/or used manuals, textbooks, handwritten notes, and reference materials;

c) there has been interaction/communication between candidates and/or attempts to copy and/or attempts to exchange any materials.

Invigilation boards draw up a record in the CISIA platform for each classroom, highlighting date, shift, classroom and university location, number of TOLC tests booked and number of TOLC tests started, number of candidates in the classroom, number of TOLC tests finished, and TOLC tests annulled.

It should be noted that the validation as well as the start of the candidate's TOLC test corresponds to the entry signature; the click on the button that allows to end the test has the value of "exit signature."

The examination boards must specify the reasons for each measure taken, including those of exclusion, and any other element considered important within the system. The examination boards end up the recording procedures in the presence of at least two TOLC participants in the room, who are mentioned within the final records.

3.5.3. Management of any technical issues

The computer facilities and workstations, identified by the universities to administer the tests, must guarantee adequate levels of security. The universities identify appropriate procedures and standardised tools throughout the country to ensure efficiency during the test, as well as the IT security of the classrooms used and individual computer stations used by candidates in compliance with the provisions of Article 4 of Decree No. 1925. In case of technical problems, such as for instance loss of connection, power outage, video problems, that do not allow the test to take place, the test may be reset by the university.

Candidates will be allowed to take the test on another date or another shift in the same scheduled window. In case of any technical problems found in the test administration platform such that it cannot be properly evaluated and thus cannot provide a score of equalisation (Article 3.7), the test will be rescheduled.
within the same scheduled window or by arranging a different date or shift in agreement with the local universities.

3.6 Requesting customised test for candidates with disability, impairment or diagnosed with DSA

In accordance with Article 16 of Law No. 104/1992 and Law No. 170/2010, applicants with disabilities, impairment or specific learning disorders (SLD) can request an admission test with additional time and/or customised supports within the registration procedure in the CISIA portal (Article 3.4), by attaching the following documentation:

✔ certificate of civil disability and/or certification under Law No. 104 of 1992 issued by the local competent medical commission, proving the nature of the disability and, where applicable, the percentage of disability recognised. The candidate is eligible for additional time not exceeding 50 percent of the time scheduled;

✔ certified diagnosis of SLD issued no more than 3 years ago - if prior to or after the candidate’s 18th birthday - by local public health facilities or by entities and professionals accredited with the regional health service. In accordance with the provisions of the "Guidelines on Specific Learning Disorders" attached to Ministerial Decree July 12, 2011 protocol. no. 5669, candidates with SLD are granted additional time equal to a maximum of 30 % more than that defined for admission;

✔ statement in lieu of affidavit in which the candidate declares that what is stated in the certificate has not been withdrawn, suspended or changed, using the forms made available in the CISIA portal;

✔ valid ID.

Candidates may be admitted to the test session with medical certification – even if it is out of date, due to the limitation of SSN (NHS - National Healthcare Service) activity for the Covid-19 emergency – subject to later request for integration of required documentation. Applicants with a condition of disability, impairment or SLD from EU countries and extra-EU countries residing abroad, who wish to take advantage of customised supports, must submit legal certification – where required by current international regulations – stating the state of disability, impairment or SLD, issued in the country of residence, accompanied by a translation, sworn or certified by Italian diplomatic representatives corresponding to the relevant original text, in Italian or English.

The Service for Students with Disabilities/SLD, in charge of reviewing such certifications, certifies that the foreign documentation certifies a condition of disability, impairment or SLD recognized by Italian law. Supports may be granted by appropriate experts from the Service after proper evaluation. The auxiliary supports will be provided mainly within the TOLC platform (additional time, calculator, character enlargement, etc.); any additional supports, e.g., the support of a reader, a SLS (Sign Language Service) expert, will be arranged by the University.

In any case, tools such as dictionaries and/or vocabularies, formularies, periodic table of elements, concept maps, computers (other than those provided for the test), tablets, smartphones, smart glasses and other similar tools are not allowed.

3.7 Test results, scores of equalisation, minimum admission threshold for the selection

3.7.1 TOLC-MED scores of equalisation

In order to ensure test repeatability, equal access conditions and equity in the evaluation of results, the scientific template for the evaluation of the TOLC-MED tests (as set forth in Annex No. 2 to Ministerial Decree No. 1107) provides:

1) different tests, i.e., not all consisting of the same questions;

2) the assessment of the test, taken by a participant, which takes into account both answers given to individual questions and difficulty of the test itself;

3) a statistically correct measurement of the difficulty of the test.
After the TOLC test candidates are then given a **score of equalisation**, which is obtained by adding the candidate’s score from the answers given to the questions (**non-equalized score**) and the number which measures the difficulty of the test, referred as **test equalisation coefficient**.

The non-equalized scoring is done as follows:
- 1.00 point for each correct answer;
- minus 0.25 point for each incorrect answer;
- 0 points for each omitted answer.

The non-equalized score obtained by each candidate in each TOLC test scheduled window will be **equalized** according to the difficulty of the test, so as to ensure that results obtained by candidates are comparable to each other even at different times. Moreover, **the homogeneity of the tests administered and the same degree of selectivity among all participants must be guaranteed**.

In this way, equalisation for all candidates is done automatically **ex-post** at the end of each scheduled test window, by applying mathematical formulas known **a priori** (referred to in Attachment No. 2 to M.D. No. 1107).

At the end of the TOLC-MED test, candidates can consult a summary in their own private area containing:
- the number of correct, not given and incorrect answers for each section of the test;
- the number that uniquely identifies the test taken;
- the date of issuance of available attendance certificates – including the score of equalisation given for the test;
- the description of the procedure that will be carried out to provide the score of equalisation, which takes into account the actual level of difficulty of the test taken by each candidate.

### 3.7.2 Minimum admission thresholds to take part in the selection, score of the equalisation management

EU citizens or citizens of equivalent status (pursuant to Article 39, paragraph 5 of Legislative Decree No. 286 of July 25, 1998) are eligible for admission to the course of study as referred to **Article 3**, and thus for inclusion in the national merit ranking, only if they have obtained **a minimum score of equalisation equal to ten (10)**.

For extra-EU citizens residing abroad, who compete in the local ranking of the university, where they took the test, no minimum eligibility threshold is applied. These candidates are eligible only if they have obtained a score of equalisation higher than zero (0); those who have not provided answers to any questions are not included in the ranking.

In case of equal score of equalisation, the following criteria are applied:

(a) candidate's score of equalisation, obtained from solving the questions related to the topics of biology, chemistry and physics, mathematics and reasoning, text comprehension and knowledge acquired during study courses, respectively, is ranked in descending order;

(b) in case of equal score between one or more disabled candidates having a certificate of disability equal to or greater than 66% or disabled with certification under Law No. 104 of 1992 Article 3, Paragraph 3, and one or more candidates not in the above categories, the disabled candidate(s) having a certificate of disability equal to or greater than 66% or disabled with certification under Law No. 104 of 1992 Article 3, Paragraph 3, ranks higher.

(c) The disabled candidate having a certificate of disability equal to or greater than 66% or having a certification under Law No. 104 of 1992 Art. 3, paragraph 3, holding a medical certification – even if not updated due to limitation of the activity of the SSN for the Covid-19 emergency – in case of equal score with another candidate not falling into the aforementioned categories – may claim this preference title and must exhibit the certificate of disability equal to or greater than 66% or the certification referred to in Law no. 104 of 1992 art. 3, paragraph 3, to the University where he/she was "assigned" within the peremptory term of 15 (fifteen) days starting from the assignment, including the first day, under penalty of exclusion from the national ranking list. Once this deadline has passed unnecessarily, the undocumented preference title cannot be taken into consideration;
(d) beyond the case reported in (b), in case of a further equal score, the youngest candidate ranks higher.

**Art. 4. STEP 2 FOR EU CITIZENS AND THEIR EQUIVALENTS: APPLICATION FOR INCLUSION IN THE SINGLE NATIONAL RANKING LIST**

After taken the TOLC-MED test in one or both scheduled windows, candidates with EU citizenship or equivalent (citizens of EU countries and extra-EU countries pursuant to art. 39, par. 5, legislative decree no. 286 of 25 July 1998), must submit an online application form for inclusion in the national ranking, according to the instructions made available at [https://accessoprogrammato.miur.it/](https://accessoprogrammato.miur.it/).

The procedure is open from 31<sup>st</sup> July 2023 and closes on 24<sup>th</sup> August 2023 at 15.00 (GMT+2). Candidates must register in the indicated portal using the same data declared in the CISIA portal (name, surname, tax code, e-mail address), for the purposes of the correct association of scores.

After accessing the private area, and once read the information on the purposes and terms of the personal data processing, candidates verify all the information sent by CISIA regarding the scores of equalisation obtained at the TOLC as well as the basic personal data.

When submitting the application form for inclusion in the merit ranking, candidates must:

1) declare to be in possession of the requirements set out in art. 5, par. 1 or par. 2 of Decree no. 1925, in particular, to belong to the correct category of EU citizens and equivalent and to have obtained an upper secondary school diploma;
2) check the score given by the system as best score of equalisation obtained in the TOLC-MED test;
3) indicate the courses and universities, which they intend to compete for, in order of preference. These preferences are irrevocable and cannot be supplemented after the 24<sup>th</sup> August 2023 at 15:00 (GMT + 2). In any case, the last “confirmation” expressed by candidates within this deadline will be considered as valid.

**Art. 5. STEP 2 FOR EXTRA-EU CITIZENS RESIDING ABROAD: APPLICATION FOR INCLUSION IN THE LOCAL MERIT RANKING LIST OF THE UNIVERSITY TESTING CENTRE**

After taken the TOLC-MED test in one or both scheduled windows, candidates with extra-EU citizenship residing abroad can apply for inclusion in the local merit ranking of the university, where they sat the test within one or both scheduled windows.

Therefore, only extra-EU candidates residing abroad, who have taken the TOLC-MED test at the University of Calabria, can apply for inclusion in the University of Calabria’s ranking list. Candidates must register on the University website from 31<sup>st</sup> July 2023 up to the mandatory deadline of 24<sup>th</sup> August 2023 at 3.00 p.m. (GMT+2), according to the following instructions:

1) Register on the website [unical.esse3.cineca.it](http://unical.esse3.cineca.it) (only if not already registered)
2) Select Menu -> Secretariat -> Calls for Applications -> Registration -> 6-year single-cycle Master's Degree Course ->
   - Extra-EU candidates - Medicine and Surgery DT 2023/2024 for the course Medicine and Surgery DT
   - Extra-EU candidates - Medicine and Surgery DT 2023/2024 inter-athenaeum for the course Medicine and Surgery DT (inter-athenaeum with the Magna Graecia University of Catanzaro)
3) Fill in the application form
Art. 6. STEP 3: PUBLICATION OF RESULTS AND ENROLLMENT APPLICATION

6.1 Publication of single national ranking list for EU citizens and equivalents

6.1.1 Assigned and Booked Candidates

The national merit ranking for EU and equivalent citizens will be published on 5th September 2023 in the student area of the dedicated portal.

For each scrolling ranking, candidates who:

a) Are included in the number of places available for the **first useful preference** (by first useful preference is meant – in the order of preferences indicated – the best option related to the university and the course, where candidates are eligible for enrolment according to the score of equalisation obtained and to the number of places available) and are, therefore, **ASSIGNED: they must enrol** in the university and the course, which they are ASSIGNED to, within the deadlines specified in **Article 6.1.2**. In case of failure to meet the deadline, candidates forfeit their right to enrolment and the reason for the delay is irrelevant;

b) are not included in the number of places available for the first useful preference and are, therefore, **PRE-SELECTED** on a subsequent choice: in this case candidates can still enrol in the university and in the course by the deadlines specified in **Article 6.1.2**, or, after the enrolment of those who rank higher in the list, wait for possible available places related to the best preferences indicated in the next scrolling ranking. **Should PRE-SELECTED candidates enrol, they will automatically forfeit all other preferences expressed.**

In compliance with the times and procedures set out in art. 6.1.2, successful candidates (both ASSIGNED and PRE-SELECTED) must enrol at the University of Calabria, in accordance with the specifications below:

a) Register at unical.esse3.cineca.it (only if not already registered)

b) Access unicalesse3.cineca.it:
   - Menu -> Secretariat -> Calls for applications and filling in the application form
   - Menu -> Secretariat -> Enrolment

c) Pay online €16.50 mandatorily by the deadline indicated in art. 6.1.2.

Any other payment method will not be accepted and will not constitute proof of enrolment.

**Article 6.1.2** details on the functioning of the ranking list and its scrolling.

6.1.2 Ranking list functioning and scrolling ranking timing

Functioning and scrolling ranking for enrolment purposes takes place according to the following steps and rules:

a) the names of candidates ASSIGNED or PRE-SELECTED to the course and university, indicated as first preference, will be published on the 5th September 2023 in the student area of the dedicated portal in relation to the merit ranking and the number of students admitted at the universities. Universities will be provided with a list of such candidates, their scores of equalisation, their ranking positions, university locations and courses, where they are classified as 'assigned', 'pre-selected' or 'pending', taking into account the ranking position of all the candidates listed ahead and their preferences about universities and courses.

b) **ASSIGNED** candidates **must** complete the enrolment procedure, while **PRE-SELECTED** ones **may** proceed with the enrolment at the universities in accordance with the local university administrative procedure. Instructions for the University of Calabria are specified in art. 6.1.1 and are also available in unical.it/admission/medicine23-24. Candidates with foreign qualifications must also refer to the
instructions available in Article 8.1 of this call for application. For a correct management of the national ranking, it is in any case established that both ASSIGNED and PRE-SELECTED candidates may exercise this right with reference to the specific scrolling ranking, within a maximum period of 4 (four) days, including the day of the scrolling ranking and excluding Saturdays and public holidays. The non-enrolment of ASSIGNED candidates will entail forfeiture and exclusion from the ranking, if not completed within the 4-day deadline as described above. The PRE-SELECTED candidates, who do not apply for this option, will not be removed from the ranking.

c) Through their dedicated sites, universities will notify CINECA of the names of the students enrolled within 5 days from the deadline indicated in letter a) and in any case by 12:00 a.m. of the fifth day following each scrolling ranking, including the day of publication of the scrolling ranking and excluding Saturdays and public holidays.

d) All candidates – with the exception of those enrolled, assigned but withdrawn from enrolment, and of those with the status of "unavailable places" – must express their interest in being included in the ranking in the dedicated portal's private area within 5 days from the deadline indicated in letter a) and in any case by 12:00 a.m. of the fifth day following each scrolling, including the day of publication of the scrolling ranking and excluding Saturdays and public holidays. In case of non-confirmation, candidates are excluded from the subsequent scrolling of the national ranking and lose the right to enrol. In case of hindrance, the justifying reason for non-confirmation of interest does not assume any relevance, since the computer procedure has a minimum time limit and may be delegated to trusted third parties within the five days allowed to perform the procedure. Automatic notice of such exclusion is given in the private area after the deadline. Against this notice and without the need for any further communication or objection from the Ministry of University and Research, an appeal may be filed before the Lazio Regional Administrative Court within sixty days thereafter or before the President of the Republic within one hundred and twenty days after publication in the candidate private area. In the absence of an appeal concerning the exclusion within the specified time limits, an appeal against other reasons related to the lack of enrolment in one of the chosen degree courses does not heal the exclusion.

e) On September 13th, 2023, after receiving the communications mentioned in paragraph (c), CINECA publishes the new scrolling ranking with the procedures specified in paragraphs (b) to (d), in relation to the merit position and preferences expressed.

6.2 Publication of local merit rankings for extra-EU citizens residing abroad

On September 5th, 2023, the merit ranking lists for extra-EU candidates living abroad are published at unical.it/ammissione/medicina23-24

The merit ranking lists will include only those candidates:
- Who have correctly submitted the application for inclusion in the ranking as referred to in Article 5;
- who are eligible in the test, i.e., who obtained a score of equalisation higher than zero (0); those who did not provide answers to any questions are not eligible and therefore not ranked;
- for whom it was possible to retrieve the score of equalisation through the personal data entered.

On the basis of the score of equalisation obtained, for each of the Courses referred to Article 1, two ranking lists are drawn up:
- One for extra-EU citizens residing abroad;
- one for Chinese citizens, Marco Polo Program, if any.

Instructions and deadlines for enrolment are provided at the same time of the publication of the ranking lists at unical.it/ammissione/medicina23-24
Applicants should also refer to the instructions made available in Article 8.2 of this call for application.

Please note: Admission is subject to possession of the entry requirements and eligibility of the submitted qualification. Those who do not meet these requirements will not be allowed to enter the course as they are ineligible for admission, even in case of achieving a test useful score.

Art. 7. APPLICATIONS FOR CREDIT AWARDS AND ADMISSIONS TO YEARS FOLLOWING TO THE FIRST

As a result of credit recognition procedures and necessary propaedeutic features set by the university, enrolment in the years following to the first can only occur according to the number of places made available for each year of the course, in the relevant student cohort. This availability may be the result of students’ dropouts, university transfers to the same degree course or transfers to another course in foreign universities, transfers to another course in the same or different university in Italy, or in any case, in other institutes - as set forth in the relevant University regulations. These conditions are suitable to make concrete the definitive availability for admission to the relevant year course, in relation to the number of students admitted as defined at the time in the annual planning decrees, published by the Ministry of University and Research.

In accordance with the provisions in Article 3, Paragraph 1 (a) and (b) of Law No. 264/1999, no additional students will be admitted to the years following to the first, being the annual planning referred to admissions to the first year of a degree course by students who pass the admission tests for the relevant courses. The number of students admitted is determined by the only factors that result in the places made available in the respective years.

Therefore, admissions to years following to the first will take place within the limited number of places available for the year of the course to which eligibility is based on the deliberations of the boards in charge. Enrolment of students from EU or extra-EU universities in years following to the first will be subject to verification of educational paths already completed, with particular reference to the characteristics of the degree course, the exams taken, the theoretical studies completed and the practical experience acquired in the university of origin.

Number of places available, procedures and deadlines for applying for career recognition aimed at career shortening or for enrolment in years following to the first will be published later with a specific notice and posted on www.unical.it/didattica/iscriversi-studiare-laurearsi/ammissioni/medicina-aa-23-24-anni-successivi/.

The University will not be obliged to consider applications for admission to subsequent years submitted by other means or after the deadlines provided in the appropriate notice.

Art. 8. FOREIGN STUDENTS AND ITALIAN STUDENTS HOLDING FOREIGN DEGREES

Admission of students holding foreign degrees takes place according to the regulations of the Ministry of University and Research, available at www.mur.gov.it/it - Universities - International Mobility - Incoming International Students - Foreign Students, after passing the required tests and submitting the necessary documentation.

It is possible to contact the Internationalization Area welcomeoffice@unical.it for any further indications.
8.1 Enrolment procedure for EU or extra-EU candidates residing in Italy
Equivalent to EU citizens are:
- Citizens of Norway, Iceland, Lichtenstein and the Swiss Confederation, the Republic of San Marino and the Holy See;
- extra-EU citizens pursuant to Legislative Decree No. 286/98 Art. 39 paragraph 5 as amended and supplemented. Extra-EU candidates residing in Italy will be accepted subject to verification of their residence permit.
In order to participate in the selections, candidates are required to:
1) Carry out online test registration within the indicated time and mode specified in this call for application (Article 3);
2) take the TOLC-MED test within the indicated time and mode specified in this call for application (Article 3);
3) apply online to be included in the national ranking list (Article 4).
Such candidates are exempted from the Italian language proficiency test pursuant to Legislative Decree No. 286/98 Art. 39 paragraph 5 as amended and supplemented.
Candidates found to be assigned or pre-selected, who intend to enrol, must:
1. submit the necessary documentation to verify the enrolment requirements valid for the Internationalization Area welcomeoffice@unical.it
2. follow the enrolment directions in Article 6.1.1

8.2 Enrolment procedure for extra-EU candidates residing abroad
In order to participate in the selections, extra-EU candidates are required to:
1. pre-enrol on the Universitaly portal https://www.universitaly.it/index.php/students/stranieri, indicating the University of Calabria and the course of study of interest. Pre-enrolment is required exclusively for candidates applying for Entry Visa for STUDY reasons (University Enrolment) and must then be submitted to the Italian Diplomatic Representation of the country of residence;
2. register online for the test within the indicated time and mode specified in this call for application (Article 3);
3. take the TOLC-MED test within the indicated time and mode specified in this call for application (Article 3);
4. submit the online application to be included in the local merit ranking list (Article 5);
5. prove to have a B2 level of Italian language proficiency; the Italian language proficiency test (not required in the cases indicated in the ministerial guidelines www.studiare-in-italia.it/studentistranieri/) will be held on the day and in the modality indicated at http://www.unical.it/internazionale/intenalional-students/unical-admission.
Admitted candidates (Article 6.2) who wish to enrol must:
1. submit the necessary documentation to verify the valid enrolment requirements as indicated at www.unical.it/internazionale/intenalional-students/unical-admission of the Internationalization Area, Welcome Office service, Via Savinio - Residential Centre area;
2. enrol:
   a) Access unical.esse3.cineca.it Select Menu → Secretariat → Registration.
   b) Pay online the amount of 16.50 euros within the deadlines indicated in Article 6.1.2.
   Any other payment method will not be accepted and will not constitute proof of registration.

Art. 9. PERSON IN CHARGE OF THE PROCESS, ACCESS TO RECORDS, NOTES AND WARNINGS
1) Pursuant to Article 4 of Law No. 241 of August 7, 1990 (New rules on administrative procedures and right of access to administrative documents) as amended, Dr. Gianfranca Russo, Head of the Educational Services
Area, is appointed as the person in charge of administrative procedures for admission and access to records. In the event that false or mendacious statements are found in the documentation submitted by candidates, without prejudice to the penalties provided for by the Criminal Code and the special laws on the subject (Articles 75 and 76 of Presidential Decree 445/2000), candidates will automatically forfeit their registration. The University will recover any benefits granted (e.g. scholarships) and will not proceed to any kind of fees refund. Finally, false declaration will result in being subject to action for damages by counter interested parties.

2) Simultaneous enrolment: rules regarding simultaneous enrolment can be found at https://www.unical.it/didattica/iscriversi-studiare-laurearsi/iscrizioni/.

Any changes or supplements to the contents of this call for application will be:

- published in the official University bulletin;
- made known on the University’s web pages at unical.it/admission/medicine23-24

For matters not expressly specified in this call for application reference is made to current regulations, in particular to Ministerial Decree No. 1107 of September 24, 2022: "Definition of terms and contents of the so-called TOLC admission test to single-cycle bachelor’s and master’s degree courses in medicine and surgery and dentistry and dental prosthetics and veterinary medicine in the Italian language for the academic year 2023/2024" and to D.D. No. 1925 of 30-11-2022 "TOLC test procedures and the subsequent creation of merit rankings to access the single-cycle master's degree courses in Medicine and Surgery and Dentistry and Dental Prosthetics and Veterinary Medicine."

Art. 10. PERSONAL DATA PROCESSING

Personal data processing for admission to single-cycle master’s degree courses in Medicine and Surgery, Dentistry and Dental Prosthetics and Veterinary Medicine is carried out as reported in All.No.3 to M.D. No. 1107.

Personal data processing for the ranking application submission stages is carried out as reported in All. no.3 to D.D. 1925 of November 30th, 2022.

Personal data processing by CISIA is carried out according to what is stated in test registration and enrolment procedure in the portal www.cisiaonline.it.

Personal data processing provided by candidates to the University of Calabria, collected for the purposes identified in this call for application, is carried out in accordance with the provisions of EU Regulation 27.04.2016, n. 679 (General Data Protection Regulation, GDPR) and the information available at unical.it/privacy page.
ANNEX No. 1 - Programs related to the content of the questions of the TOLC-MED test, required for admission to the Master's Degree Courses in Medicine (LM-41) and Dentistry and Dental Prosthetics (LM-46)

Admission to courses requires the ability to understand and analyze various kinds of written texts, to perform logical-mathematical reasoning, as well as general culture knowledge with special emphasis on historical, geographical, social and institutional, and disciplinary fields in biology, chemistry, physics and mathematics. Skills and knowledge required should meet the preparation fostered by educational institutions that organize educational and teaching activities consistent with the National Directions for high schools and the Guidelines for technical and vocational institutes, especially in view of the State Examinations.

**Reading skills and knowledge acquired during study courses.**

The ability to understand different kinds of written texts in the Italian language with different communicative purposes represents a cross-curricular competence, since all kinds of questions will be formulated in the Italian language, including the use of symbolic language.

Specific test assessment will also be made of the following skills:
- understand abstract, uncommon or specialized vocabulary in real contexts;
- identify textual cohesion and coherence;
- extracting and inferring specific information from the text.

Such skills will be tested reading short texts of scientific essays or classic and contemporary literature, or reading short texts of news published in newspapers and general or specialized magazines.

Again, starting from different kinds of short texts about various topics, skills acquired in previous studies and knowledge of general culture about current issues will also be tested. In particular, the questions will aim at ascertaining:
- the ability to get oriented in space and time, i.e., to place relevant historical and cultural phenomena in space and time;
- knowledge of major national and international institutions;
- understanding of phenomena related to the fields of law, economics and citizenship.

**Biology**

- **Chemistry of living organisms.** Water and its characteristics, hydrophilic and hydrophobic substances. Chemical composition, structure and function of major biological molecules. Carbohydrates: monosaccharides or simple sugars (glucose, fructose, ribose and deoxyribose); disaccharides (sucrose, lactose), polysaccharides (glycogen, starch, cellulose). Lipids (fatty acids, triglycerides, phospholipids, cholesterol). Proteins (amino acids, polypeptide chains, primary, secondary, tertiary and quaternary structure). Nucleic acids (nucleotides, DNA, RNA).

- **Organization of the cell.** Prokaryotic and eukaryotic cells. Organization of the eukaryotic cell. General characteristics and basic functions of: plasma membrane, nucleus, ribosomes, endomembrane system (endoplasmic reticulum, Golgi apparatus, lysosomes), mitochondria, cytoskeleton. Differences between animal and plant eukaryotic cells: cell wall, chloroplasts and other plastids, vacuoles. Hints on the evolution of the eukaryotic cell: endosymbiont theory.


- **Mitosis and meiosis.** Gametogenesis, fertilization, and early developmental stages. Cell division in prokaryotes and eukaryotes. Mitosis and meiosis; cytokidesis; cell cycle. Gametogenesis and fertilization. Early stages of fertilized egg development (segmentation and gastrulation).

- **Anatomy and physiology of animals and humans.** Hierarchy of multicellular organization: tissues, organs, systems and apparatuses. Structure and functions of the four major tissues (epithelial, connective, muscular,
and nervous. Structure and function of the major human systems and apparatuses: integumentary, muscular, skeletal, digestive, respiratory, circulatory, excretory, reproductive, and nervous. Homeostasis.


- **Elements of biotechnology.** Traditional biotechnology. Innovative biotechnology (recombinant DNA technology). Applications of biotechnology in the medical field. Biotechnology for agriculture and environment.

- **Biodiversity elements and evolution.** Characteristics to differentiate Bacteria, Archaea and Eukarya. Hints on the characteristics of Viruses. Mechanisms of evolution: mutation, genetic variability, natural selection, adaptation; speciation and extinction.

- **Elements of ecology.** Interactions among organisms and between organisms and environment at different levels of the biological hierarchy (individuals, populations, communities and ecosystems). Trophic chains (autotrophs/primary producers and heterotrophs/secondary producers-consumers). Biotic interactions: differences in competition, predation, parasitism, mutualism and commensalism.

**Chemistry**

- **Matter macroscopic properties.** Matter particle model on macroscopic scale and matter states. Macroscopic properties of gases, liquids and solids and physical transformations (kinetic theory, fixed points, phase transitions). Homogeneous and heterogeneous mixtures and techniques of mixture separation. Fundamental principles of chemistry (Lavoisier, Proust, Dalton, Gay-Lussac) and Avogadro’s number. Ideal gas laws (Boyle, Charles, Gay-Lussac).


- **Stoichiometry of chemical reactions.** Balancing reaction patterns. Definition of the mole concept and Avogadro’s constant. Conversion of mass quantity into moles. Relationship between the number of moles (chemical quantity) and mass in reaction schemes.

- **Chemical reactions.** Exothermic and endothermic reactions. Chemical equilibrium. Reaction rates and factors affecting reaction rates.


- **Properties of solutions.** Conductivity, colligative properties, solubility. Units of concentration (mole dm-3, g dm-3, composition percentage) and related calculations.


- **Applied chemistry.** Chemical transformations in everyday life. Correct reading of commercial products' labels (beverages, food, drugs, chemicals). Main environmental issues (acid rain, greenhouse effect, smog...). Safety regulations. Physics


**Mathematics and reasoning**

- **Numbers.** Addition and multiplication operations among whole numbers, fractions, decimal numbers. Ordering. Properties of operations and ordering. Subtraction and division. Concept of rational number. Representations of numbers in different forms (decimal, fractional, percentage, scientific positional notation...) and on a line. Real numbers. Division with remainder between whole numbers. Divisors and multiples of an integer; greatest common divisor (GCD, Greatest Common Divisor) and least common multiple (lcm) of two or more positive integers. Integer power elevation of a number and properties of powers. Positive integer root of a positive number. Power with rational exponent of a positive number. Estimates and approximations. Calculation and transformation of expressions.

- **Algebra.** Literal expressions: manipulation and evaluation. Concept of solution and "set of solutions" of an equation, inequality, system of equations and/or inequalities. Equations and inequalities of first and second degree. Equations and inequalities systems.

calculation by sum and difference of figures. Plane Cartesian coordinates and description of plane subsets using coordinates. Midpoint of a segment. Gradient of a segment and equation of a line. Equations of parallel lines and lines perpendicular to a given line. Intersection of lines and representation of solutions of a system of first degree equations. Distance between two points and equation of a circle of assigned centre and radius.

- **Functions and graphs.** Language and notation for functions. Graph of a function. Composition of functions. Existence and uniqueness of solutions of equations of the type f(x)=a, invertible functions and inverse function. Properties, graph and characteristics of the following families of functions of a real variable: power and root functions; polynomial functions of first and second degrees; functions of the type x↦1/(ax+b) with a and b assigned constants; absolute value function; exponential functions and logarithm functions in different bases; goniometric functions. Equations and inequalities expressed by functions such as f(x)=g(x), f(x)>a.

- **Combinatorics and probability.** Representation and counting of finite sets. Disjoint events. Independent events. Probability of the union event of disjoint events. Probability of the intersection event of independent events. Description of events in simple paradigmatic situations (tossing a coin, rolling a die, drawing from a casket...). Tree diagrams. Conditional probability.

- **Averages and variability.** Qualitative and quantitative variables (discrete and continuous). Absolute and relative frequencies. Representations of distributions (tables, bar graphs, pie charts, histograms...). Mean, median and mode.

- **Understand and represent.** Understand texts that use languages and representations of different kinds, even contextually. Use different representations of the same object, depending on the situations and objectives. Understand and use elementary notations of set language and terms such as: element, belonging, subset, union, intersection.

- **Reasoning.** Determine in a given situation and given certain premises whether a statement is true or false. Deny a given statement. Understand and use terms and locutions such as: and, or, not, for every, all, none, some, at least one, if... then..., necessary condition, sufficient condition, necessary and sufficient condition.

- **Modelling, problem solving.** Formulate a situation or a problem in mathematical terms. Solve a problem, adopting strategies, combining different knowledge and skills, making logical deductions and calculations.