



**CALL FOR APPLICATIONS FOR NON-EU CITIZENS NON-RESIDENT IN ITALY TO
THE FIRST YEAR OF THE ONE-CYCLE DEGREE COURSE IN MEDICINE AND
SURGERY WITH LIMITED ACCESS (Class LM-41) IN ENGLISH AT HUMANITAS
UNIVERSITY**

SUMMARY OF THE CALL IN ENGLISH

Academic year 2018/2019

Foreword

The official source of the present Call for Applications is “SECONDO BANDO DI CONCORSO, RISERVATO AI CITTADINI NON COMUNITARI NON RESIDENTI IN ITALIA, PER L’AMMISSIONE AL CORSO DI LAUREA MAGISTRALE A CICLO UNICO IN MEDICINA E CHIRURGIA (Classe LM-41) IN LINGUA INGLESE DI HUMANITAS UNIVERSITY” in Italian. This document represents a summary of the call.

This document is provided for the convenience of international students. In the event of disputes, the parties should refer only to the document in Italian.

Admittance to the Degree Course is subject to selection through the University’s admissions test.

Art. 1 Number of places available

After the closing of the enrolment procedures reserved to non-EU students five (5) places are still available.

A second admission test for non-EU students is set to cover the five (5) available places.

The number of places available may increase if further places will be available after the withdrawal of already enrolled students.

Art. 2 Admission requirements

Only **NON-EU citizens not resident in Italy** are entitled to apply for the present call for application on penalty of exclusion.

The following candidates are NOT entitled to apply:

- Citizens of Italy and of European Union member states.
- Citizens holding a European citizenship together with a citizenship of a country not belonging to the European Union.
- The citizens of UK, Norway, Iceland, Liechtenstein, Switzerland, the Republic of San Marino.

- Non-EU citizens holding a residence permit in Italy for employment or self-employment, for family reasons, political asylum, asylum for humanitarian or religious reasons.
- Non-EU citizens legally resident in Italy from at least one year in possession of a Secondary School Diploma obtained in Italy.
- Non-EU citizens, resident anywhere who hold diplomas from Italian schools abroad or foreign or international schools having bilateral agreements or special regulations for the recognition of qualifications and who satisfy the general conditions required to be admitted to study in Italy.
- Refugees.
- Diplomatic personnel accredited to International Organizations in Italy, Italian State, Vatican State and their dependant family members.

Candidates applying and sitting the test without the possession of the citizenship requirements will not be considered for the ranking.

To sit the admissions test, candidates must be already in possession of a Secondary School Diploma.

In order to enrol for the first year of degree course in Medicine and Surgery, a diploma is considered valid if obtained after at least 12 years of education, accompanied by the Declaration of Value issued by the Italian diplomatic authorities.

In the event that the local school system provides for 11 or 10 years of schooling, the title is valid when integrated with one or two years of university, having passed all the required exams for those academic years.

Candidates not holding valid qualification, according to the requirements of law, will lose the right to enrol. Further, if already enrolled, the candidate's enrolment will be cancelled.

For the validation of foreign qualifications, Humanitas University will follow Ministry guidelines for the academic year 2018-19 (latest update February 19th, 2018) available in Italian at:

<http://www.studiare-in-italia.it/studentistranieri/>

Art. 3 Study Visa request

Students must double-check with Italian Consulate in their countries of origin, if they are eligible for a study VISA. The Study VISA is required to attend university courses in Italy.

Art. 4 Application for the admissions test and deadlines

The application for the Admissions Test is done exclusively online on the University website www.hunimed.eu:

- from July 12th 2018 to September 2nd 2018 (deadline) for the Milan test centre;
- from July 12th 2018 to August 26th 2018 (deadline) for test centre not in Italy (as specified in art. 16).

The candidate can sit the examination at a number of selected locations in Italy and abroad reported on the website www.hunimed.eu and specified in the Art 16 “List of test centres”. The location of the test must be selected during the online application procedure. **The choice is irrevocable.** The number of seats available to take the test in test centres not in Italy is limited and subject to availability. Seats are assigned on a first-come, first-served basis according to the chronologic order of the test fee payment until availability is completed. Therefore, the University reserves the right to indicate an alternative test centre for the test.

For test centres not in Italy, once the application procedure is completed and the test fee payment is processed, Humanitas University will send an e-mail to the candidate to confirm the availability of the selected test centre. A time lapse of some days may occur between the payment and the e-mail confirmation of the test venue. The address of the selected test venue will be specified in the e-mail. Confirmation will be given starting from July 31th 2018.

Online application procedure:

1. **MyPORTAL Online registration at <https://humanitas.esse3.cineca.it>:** the candidate must register online to receive a username and a password; the username and password will be necessary to access the personal page on Humanitas University MyPORTAL;
2. **Application for the Admissions Test:** the candidate must apply for the admissions test by using his/her username and password according to the timeline reported above.

In order to be entitled to sit the admissions test, candidates are requested to pay the test fee, which amounts to Euros 160.00. Payment must be made according to the following deadlines:

- by credit card no later than the last day valid for the application for the Admissions Test **September 2nd** for the Milan Test centre and **August 26th** for other test centres not in Italy;
- by Mav or bank transfer no later than **August 29th** for the Milan Test centre and **August 22nd** for other test centres not in Italy;

The application for the Admissions Test must be done according to the instructions described above, on penalty of exclusion.

Please note that the payment of the test fee alone does not mean registration has been completed.

In no cases or conditions the admissions test fee will be refunded.

Art. 5 Candidates with disabilities

Candidates with any kind of disability in need of extra means of support must formally request the support they will need for this test in relation to the extent of their disability. Candidates with learning disabilities can request the special terms foreseen in the Ministerial Decree DM 5669/2011 to guarantee equal opportunities during the test, including additional time for completing the test.

Among those candidates with disabilities the following should be considered: candidates who are blind, suffering from complete blindness or with vision not exceeding one tenth in both eyes; candidates who are deaf, from birth or before learning to speak; candidates with percentage of civil disability equal to or higher than 66%, candidates with handicap certificate of disability according to Law 104/92 as amended by Law 17/99. Disabilities must be certified by appropriate medical certificate issued by the competent health authorities. Certificates will be accepted only in Italian or in English.

Among the candidates with learning disabilities the following should be considered: candidates affected by dyslexia, dysgraphia, dyscalculia or dysorthography, certified by appropriate medical certificate, issued no earlier than 3 years prior by the National Health Service, by specialists or by accredited medical institutions, if approved by the Regions. The additional time for completing the test for candidates with learning disabilities will be in the measure of 30% compared to the standard time for the test, pursuant to Ministerial Decree DM 5669/2011.

These requests must be specified when applying for the Admissions Test on MyPORTAL and the medical certificates must be attached in electronic format.

Art. 6 Test subject

During the Admissions Test, entirely provided into the English language, students are required to answer sixty (60) questions with five response options, of which the candidate will have to choose one only, discarding the wrong, arbitrary or less likely conclusions. On the basis of the programs listed in Annex A, the questions are divided as follows:

- Logical reasoning (20 questions)
- General culture (2 questions)
- Biology (18 questions)
- Chemistry (12 questions)
- Physics and Mathematics (8 questions).

Art. 7 Date, Location and procedure for the Admissions Test

The Admissions Test will be paper based, entirely provided into the English language and it will take place on Friday, September 7th, 2018 at the test-centres reported on the website www.hunimed.eu and in the Art. 16 “List of test centres” of this competition call.

Candidates will have 100 minutes to complete the test.

The admission Test for the Degree Course in Medicine and Surgery will be held, in Italy at **MEDIOLANUM FORUM, via Giuseppe Di Vittorio 6 Assago (MILAN)**. In Milan, the test will start at 11.30 pm. Candidates must present at 09.30 am for identification and registration with a valid identity document – identity card, driving license or passport – on penalty of exclusion.

Candidates will be assigned a seat in the different sectors of MEDIOLANUM FORUM according to their age, except for twins.

For those sitting the test in any of the locations abroad, address, time and locations will be communicated by e-mail. These candidates must arrive to the selected location abroad 30 minutes in advance to complete the registration procedures. Candidates must show their passport or national ID.

Candidates who present themselves after the test “start time” will not be allowed to sit the test. Candidates will have 100 minutes to complete the test.

After the candidates validation process the test will start. Candidates are not allowed to leave the test within the first 60 minutes of the test and within the last 15 minutes of the test.

During the test, candidates will not be allowed to talk to anyone apart from the staff and supervision Committee. Candidates will also not be allowed to keep personal belongings with them such as bags, books or notes, dictionaries, paper, pen, mobile phones, pads, smart watches, calculators or any electronic device; candidates will be given indications for storing these items in a specific place. Anyone found in possession of the above-mentioned items during the test will be disqualified.

The Supervision Committee will make sure that rules are respected and will act accordingly if any violation occurs.

art. 8 Delivery of the admission test

Each candidate will be given at the beginning of the test a folder containing:

- a) A form to be filled in with the personal information with a univocal barcode;
- b) the questions of the admission test;
- c) two answer sheets, both with the same barcode, which is also the same of the module with the personal details;
- d) an empty windowed envelope;
- e) a sheet with the pre-printed identification code of the test;

During the test, the following rules must be respected:

- The student must fill in the module with the personal details and sign it;
- For the compilation of the answer sheet candidates should use a black pen which will be given to each candidate after the identification and registration;
- **The candidate must not sign or mark the answer sheet, on penalty of disqualification;**
- Candidates are allowed to make one (and only one) correction to each question they have already answered, making sure to completely blacken the previously marked box and choosing another one: there must be in any case only one mark in only one of the five boxes in order to get the score;
- the answer sheet has, next to the numbers of the questions, a small circular shape that the student must blacken to prove his intention not to answer the question. This indication, once it has been done, is no longer modifiable; if the candidate does not make any sign of response in the answer boxes, even if the circular figure is not blackened, the answer is not valid;

- the candidate must nullify, by marking the entire sheet and blackening the barcode, the second answer sheet which will not be used for correction purposes.
- At the end of the test, the candidate must insert, into the windowed envelope only the answer sheet, **unfolded**, which will be used to determine the score, and must close the envelope when handing it in.
- The candidates must hand in, separately, the second answer sheet, not used and nullified, together with the sheets containing the questions of the test and the module with the personal details to the President or to the Supervisor.

The Supervision Committee will disqualify the candidate if:

- The module with the personal details is inserted into the envelope;
- The envelope containing the answer sheet and the answer sheet itself are signed or marked by the candidate or by a member of the supervision committee.

In those cases, Cambridge Assessment will not correct the test and will not calculate the score.

Art. 9 Test Assessment and rankings

According to the number of places available for the enrollments, non-EU citizens are admitted to the Degree Course in descending order based on their score and provided that they obtained a minimum score of twenty (20) points .

The scores are assigned as follows:

- 1,5 point for each correct answer
- -0,4 points for each incorrect answer
- 0 points for each non-given answer.

The highest achievable score is 90 points.

In case of a draw, the following criteria are applied:

- a) The points scored by the candidates respectively in the logical reasoning, general culture, biology, chemistry, physics and mathematics sections respectively will prevail in descending order.
- b) In case of further draw, the youngest student will prevail.

Art. 10 Publication of the ranking list

After the test has been corrected, the ranking list will be published by Humanitas University **on September 25, 2018** on the website www.hunimed.eu, maintaining anonymity. Candidates will be able to see their position in the ranking list through the pre-matriculation number generated during the Admissions Test application procedure. Moreover, using the *username* and *password* obtained during the registration on the portal, candidates can see their score by accessing their personal page.

Art. 11 Online enrolment and reserve list

Enrolment - to be performed exclusively online - will be possible between **September 25, 2018** and **September 30, 2018**.

In this time range candidates placed in the first five (5) position of the ranking are entitled to enrol;

Not covered places will be filled according to the following procedure:

- Publication on the website www.hunimed.eu of the number of places not covered due to withdrawals. Based on the test ranking, the University will begin the admission of those candidates whose position in test ranking was beyond the number of admissions places available (reserve list).
- Eligible candidates must enrol and pay the first instalment (4.156 €) within two working days from the day of publication of each reserve list by 6.00 p.m. of the second day.
- The procedure will be iterated until there are no more places available.

Candidates who do not comply with the above-mentioned deadlines will lose the right to enrol at Humanitas University.

Art.12 Reimbursement of the first instalment

In no cases or conditions the first instalment will be reimbursed.

Art.13 Completion of enrolment at Humanitas University

Admitted candidates must complete the on-line enrolment procedure by:

- a) uploading on the on line portal (MyPORTAL) the following documents:
 - Photocopy of Passport;
 - a passport photo.
- b) providing a self-declaration of high school qualification achieved.
- c) fully accepting the enrolment form generated by the system including the economic conditions specified in the call and in the University Fee Regulation.

Students completing the online enrolment procedure, having paid the first instalment achieve the full enrolment status at Humanitas University.

For students holding a foreign secondary school qualification, a copy of that certificate translated into Italian and legalized by the Italian Consulate/Cultural Institutes, together with the Dichiarazione di Valore (Declaration of Value) released by the Consulate, are required. These documents can be handed in at Humanitas University Student Office from Monday to Friday, from 9.00 to 13.00 and from 14.00 to 17.00. An appointment is not necessary.

Once enrolled at Humanitas University, students from other universities can submit their curriculum and request the recognition of their prior activities. Recognition is subject to evaluation according to the Humanitas University procedure.

Art. 14 Supervision committee and person responsible for the procedure

To assure the fairness of the Admissions Test procedure, Humanitas University will appoint a committee, to be formed of at least three members. University and external personnel will help the commission in the candidate identification and test supervision.

The person in charge of the procedure is Dr. Massimiliano Laganà (Managing Director of Humanitas University), email info@hunimed.eu. For further information, candidates can contact the Student Office by phone at +39 02 8224 3777.

Art. 15 Table of deadlines

Beginning of Admissions Test application	12/07/2018
Deadline of Admissions Test application for Milan Test Centre	02/09/2018
Deadline of Admissions Test application for Test Centre (Abroad) not in Italy	26/08/2018
Admission test	07/09/2018
Publication of ranking list	25/09/2018
Beginning of enrolment	25/09/2018
Deadline for enrolment and payment of first instalment	30/09/2018
Enrolment from the reserve list	01/10/2018

Art. 16 – List of test centres (Country and Cities)

TEST CENTRES	
<u>Country</u>	<u>City</u>
Italy	Milan
Austria	Vienna
Cyprus	Nicosia
France	Paris
Germany	Hamburg
Germany	Munich
Germany	Frankfurt
Greece	Athens
Ireland	Dublin
Spain	Madrid
Spain	Barcelona
Sweden	Stockholm
Switzerland	Zurich - Winterthur
UK	London
UK	Manchester
USA	New York
Israel	Tel Aviv

Annex A

Syllabus regarding the content of the Admissions Test to the one-cycle Degree Course in Medicine and Surgery, in Dentistry, Veterinary Medicine, and the degree courses in other medical professions

For admission to the courses a general culture in the fields of literature, history, philosophy, social and institutional studies is required, as well as the ability to analyse written texts of various kinds and logical and mathematical reasoning skills.

The knowledge and the skills required are, however, those promoted by educational institutions that organize educational and teaching activities consistent with the Ministerial Programs, especially in view of the State Examinations and also refer to the scientific disciplines of biology, chemistry, physics, and mathematics.

General knowledge and logical reasoning

Assessment of the ability to properly use the language used in the courses and of logical reasoning in a manner consistent with the premises as set out in symbolic or verbal form through multiple-choice questions formulated with short sentences, discarding the incorrect, arbitrary, or less likely conclusions.

The questions will be based on scientific non-fiction or on fiction by classical or contemporary authors, or on texts appearing in newspapers or in general or specialist magazines. The questions will also focus on cases or problems, including those abstract in nature, whose solution requires the adoption of different forms of logical reasoning.

Questions related to general knowledge, as covered in the study curriculum, complete this field of evaluation.

Biology

The chemistry of living organisms.

The biological importance of weak interactions.

The organic molecules found in living organisms and their functions.

The role of enzymes.

The cell as the basis of life.

Cell theory. Cell size. The prokaryotic and eukaryotic cell in animals and plants.

Viruses.

The cell membrane: structure and functions - transport through the membrane.

Cellular structures and their specific functions.

Cell cycle and cell division: mitosis and meiosis - chromosomes and chromosome maps.

Bioenergetics.

The energy assessment of cells: ATP.

Redox reactions in living organisms.

The energetic processes: photosynthesis, glycolysis, aerobic respiration and fermentation.

Reproduction and heredity.

Life cycles. Sexual and asexual reproduction.

Mendelian Genetics. Fundamental laws and applications.

Classical genetics: chromosome theory of heredity; patterns of heredity.

Molecular Genetics: structure and replication of DNA, the genetic code, protein synthesis

The DNA of prokaryotes. The structure of the eukaryotic chromosome. Genes and regulation of gene expression.

Human genetics: transmission of mono- and multifactorial characters; hereditary diseases linked to the X chromosome and autosomal

Biotechnology: Recombinant DNA technology and its applications.

Heredity and environment.

Mutations. Natural and artificial selection. Evolutionary theories. The Genetic basis of evolution.

Anatomy and physiology of animals and man

Animal tissues

Anatomy and physiology of systems and equipment in humans and their interactions.

Homeostasis.

Chemistry

The constitution of matter: states of matter; heterogeneous systems and systems homogeneous; compounds and elements.

Ideal Gas Laws

The structure of the atom: elementary particles; atomic number and mass number, isotopes, electronic structure of atoms of different elements.

The periodic system of elements: groups and periods; transition elements; periodic properties of the elements: atomic radius, ionization potential, electron affinity; metallic character. Relations between electronic structures, position in the periodic system of elements and properties.

Chemical bonding: ionic bonding, covalent bonding, and metallic bonding. Energy binding. Polarity of bonds. Electronegativity.

Fundamentals of inorganic chemistry: nomenclature and main properties of inorganic compounds: oxides, hydroxides, acids, salts.

The chemical reactions and stoichiometry: molecular and atomic mass, Avogadro's number, mole concept and its application, stoichiometry elementary balance of simple reactions, the different types of chemical reaction.

Solutions: solvent properties of water; solubility; The main ways of expressing the concentration of solutions.

Equilibria in aqueous solution.

Elements of chemical kinetics and catalysis.

Oxidation and reduction: oxidation number, the concept of oxidant and reductant. Balance of simple reactions.

Acids and bases: concepts of acid and base; acidity, neutrality or alkalinity of aqueous solutions; the pH. Hydrolysis. Buffer solutions.

Fundamentals of organic chemistry: bonds between carbon atoms; formulas and rough texture, concept of isomerism. Aliphatic, alicyclic and aromatic hydrocarbons. Functional groups: alcohols, ethers, amines, aldehydes, ketones, carboxylic acids, esters, amides. Elements of nomenclature.

Physics

Measures: direct and indirect measures, fundamental and derived quantities, physical dimensions of quantities, knowledge of the metric system and the CGS System of Units, Technician (or Practical) (ST) and International (SI) units of measurement (names and relations between fundamental and derived units), and multiples (names and values).

Kinematics: kinematic quantities, various motions with particular regard to uniform and uniformly accelerated motion; uniform circular motion; harmonic motion (for all motions: definition and relationship between the kinematic quantities related).

Dynamic: vectors and vector operations. Forces, motion of forces around a point. Vector composition of forces. Definitions of mass and weight. Acceleration of gravity. Density and specific gravity. Law of universal gravitation, 1st, 2nd, and 3rd laws of motion. Work, kinetic energy, potential energy. Principle of conservation of energy. Impulse and momentum. Principle of conservation of momentum.

Fluid mechanics: pressure, and its unit of measure (not only in the SI system). Archimedes' principle, Pascal's and Stevin's laws.

Thermology and thermodynamics: thermometry and calorimetry. Specific heat, thermal capacity. Mechanisms of heat propagation. Changes of state and latent heats. Ideal Gas Laws. First and second law of thermodynamics.

Electrostatics and electrodynamics: Coulomb's law. Electric field and potential. Dielectric constant. Capacitors. Capacitors in series and in parallel capacitors. Current. Ohm's law. Electrical resistance and resistivity, electrical resistors in series and in parallel. Work, Power, Joule effect. Generators. Electromagnetic induction and alternating currents. Effects of electric currents (thermal, chemical, and magnetic).

Mathematics

Sets of numbers and algebra: natural numbers, integers, rational and real numbers. Sorting and comparison; order of magnitude and scientific notation. Operations and their properties. Proportions and percentages. Powers with integer exponents, rational and their properties. Radicals and their properties. Logarithms (base 10 and base e) and their properties. Elements of combinatorics. Algebraic expressions, polynomials. Major products, nth power of a binomial, factoring polynomials. Algebraic fractions. Algebraic equations and inequalities of the first and second grade. Systems of equations.

Functions: fundamental notions about the functions and their graphical representations (domain, codomain, sign, maxima and minima, and monotonicity, etc.). Elementary functions: algebraic integer and fractional, exponential, logarithmic, trigonometric. Composite functions and inverse functions. Trigonometric equations and inequalities.

Geometry: Polygons and their properties. Circumference and circle. Measurements of lengths, areas, and volumes. Isometries, similarities, and equivalences in the plan. Loci. Measure of angles in degrees and radians. Sine, cosine, tangent of an angle and their significant values. Trigonometric formulas. Solving triangles. Cartesian reference system in the plane. Distance between two points and the midpoint of a segment. Equation of the line. Terms of parallelism and perpendicularity. Distance of a point from a line. Equation of the circle, the parabola, hyperbola, of the ellipse and their representation in the Cartesian plane. Pythagorean Theorem.

Probability and Statistics: Frequency distributions depending on the type of character and the main graphical representations. Definition of random experiment and event. Probability and frequency