



Call for the Master ¹in “Clinical and Sports Biomechanics”

FIRST EDITION INTERNATIONAL CLASS

School of Pharmacy and Health Product Sciences

Academic years 2025/2026

Rector's Decree n. 54504 of 03/07/2025 issuing the Study Manifesto of the University of Camerino for the Academic Year 2025/2026

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Art. 1 – GOALS AND OBJECTIVES

The Level I Master's Degree in Clinical and Sports Biomechanics has an ambitious objective regarding the creation of new professional opportunities for a professional figure that is currently almost unknown in Italy but that represents a fundamental element for intervening effectively both in the clinical-rehabilitation field and in the athletic-sports field.

The Master's Degree addresses the study, analysis and measurement of human movement from a clinical-rehabilitation perspective (reduction of injury risk, knowledge of joint and muscle biomechanics for the optimization of rehabilitation, pathological biomechanics, etc.) and from an athletic-sports perspective (economy of sport-specific gesture, maximization of physical performance, biomechanical analysis of the individual phases characterizing the various sports for the improvement of the result, etc.), proposing itself as a high-level specialization for clinicians, physiotherapists and athletic trainers.

¹ **IMPORTANT NOTE.** Throughout the whole call text, when you read “Master” or “Master course” we mean “Corso di Master Universitario di primo livello”. “Corsi di master universitario di primo livello” are 2nd cycle programmes intended to provide students with further specialization or higher continuing education studies. Access is by a “Laurea” degree (or a comparable foreign degree); admission may be subject to additional requirements. Studies last at least 1 year (60 ECTS/CFU credits). The qualification awarded (Master Universitario di primo livello) does not give access to “Corsi di Dottorato di Ricerca” or to any other 3rd cycle programmes, since this type of course does not belong to the general requirements established at national level, but it is offered under the autonomous responsibility of each university.

To achieve advanced and specialized training in the field of biomechanics applied to clinical practice and rehabilitation as well as sports performance, a training program is offered with the most advanced notions and a high-profile international teaching staff.

The training program includes a high level of theoretical know-how and extensive and qualified practical activity.

The course will be mainly aimed at graduates in Physiotherapy, Motor Sciences, Fitness and Health Products. Other professional figures with degrees in the health or medical-rehabilitation and/or sports fields can also participate in the Master.

Art. 2 - PROFESSIONAL PROFILE

The Master aims to provide high-level training to professionals destined for work at clinical-rehabilitation centers, specialized studios, human movement analysis laboratories, as well as to workers with specialization in sports biomechanics who can work at professional sports clubs (football, basketball, volleyball, rugby, cycling, athletics, etc.) or at the service and support of individual athletes. All this allows the athlete to achieve maximum sports performance, minimize injuries and optimize rehabilitation in the sports field thanks to in-depth knowledge of clinical-sports and physiological-pathological human biomechanics, of all technologies and tools for measuring and analyzing human movement.

Art. 3 - OCCUPATIONAL PROSPECTS OR IMPROVEMENT OF POSITION OR ROLE

The professional prospects would be multiple and concern the entire post-operative and post-trauma rehabilitation process (sports and otherwise) and the analysis of movement for corrective and improvement purposes of sports performance. So, in a few words, after obtaining the master's degree, the student could use his know-how in countless rehabilitation and sports fields.

Art. 4 – THE COURSE

The Teaching Plan is available in Annex 1 of this Notice.

Art. 5 – STRUCTURE/ORGANIZATION OF THE ACTIVITIES

1. The training course lasts 1 year.
2. Classes will begin by May 15, 2026 and will end by September 25, 2027. Training activities will end by April 2027.
3. The operational headquarters of the Course is located in Camerino and the frontal/assisted teaching training activities will be carried out with the following operating methods: frontal and assisted.
4. Frontal lessons may also be held through the use of a telematic platform for online teaching (Cisco WebEx or other similar technologies such as Google Meet or MsTeams). The indications and instructions will be given to the enrolled students at the time of their use. The intermediate and final exam tests will be held in person, with the exception of any exceptions provided for by

agreements or conventions signed by the Rector and except in emergency situations (for example pandemic situations) in which case the University will provide instructions.

Art. 6 - ADMISSION REQUIREMENTS

1. Graduates in all three-year, master's and single-cycle master's degree classes pursuant to Ministerial Decree 270/07 or first-cycle, second-cycle or single-cycle degrees obtained pursuant to previous regulations (Ministerial Decree 509/99 and Old Regulation) may be admitted to the Course.
2. For the topics covered during the Course, it is a necessary condition to have obtained the qualification in one of the following Degree Classes: LM-67; LM-68; L/SNT/2; L-22 and L-29.
3. Registration with reserve may be permitted to candidates who are about to graduate, in the absence of only the final exam, provided that they obtain the qualification required as a requirement for access to the Course, by the day before the start of teaching activities.

Art. 7 - CANDIDATES GRADUATED OUTSIDE ITALY

Candidates who have earned a degree outside of the national territory that is comparable in level, nature, content, and academic rights to the Italian degree required for admission to the course may apply for registration. For information regarding access to the course for foreign citizens and community holders of foreign academic qualifications, please refer to the Italian Ministry of University and Research's website <https://www.university.it/studenti-stranieri> .

1- Applicants with foreign academic qualifications that are comparable in level, nature, content and academic rights (access to further courses), to the Italian academic title required for access to this Master, are eligible to enroll. A registration remains subject to assessment of eligibility. It is necessary for applicants to meet professional qualification requirements.

In compliance with the Lisbon Convention, qualifications issued by international authorities must include the documents indicated below. The student/applicant is required to provide the documentation that the University considers acquiring for evaluating the foreign qualification. These include translations, legalisations, Diploma Supplements, certificates given by the Italian ENIC-NARIC centre (CIMEA), and any Declarations of Value. Candidates holding a certificate of comparability of a foreign qualification (CIMEA/ <https://www.cimea.it/pagina-attestat-di-comparabilita-e-verifica-dei-titoli>) are exempt from submitting the Declaration of Value.

Candidates who are non-EU citizens living abroad should submit their registration application directly to the University of Camerino through the portal UNIVERSITALY, in accordance with the terms and conditions of the Call. In order to apply for these training activities and courses, applicants must use the UNIVERSITALY portal.

2. Through the UNIVERSITALY portal, candidates can apply directly to the University of Camerino for the Master's program in Aesthetic Medicine and Therapeutics. This call is conducted in accordance with the procedures and terms set forth.

Upon admission or matriculation, candidates must present their qualifications, along with the documents required for admission or matriculation. The Italian diplomatic authority in the candidate's country should be contacted once the university has confirmed the acceptance of the candidate. The validity of this visa is determined by the duration of the course.

3. Registration and matriculation remain subject to evaluation by the University of Camerino in the following areas:

- Evaluation by the technical-administrative structure of the University's Central Administration;
- The contents of the Master's program will be determined by the Scientific Council of the program according to the skills acquired.

Art. 8 - NUMBER OF ATTENDANTS PER CLASS

The Course has a limited number of places. The minimum number for activation is set at 15 and the maximum number at 40.

1. In the event that the maximum number of registered students, indicated in paragraph 1, is exceeded, those admitted are identified based on the selection procedure referred to in the article "Methods of admission and selection of candidates".
2. Failure to reach the minimum number of students does not allow the activation of the Course.

Art. 9- OBLIGATIONS

1. Attendance at teaching activities cannot be less than 75% of the total of those planned and is mandatory for all those reserved for internships or traineeships.
2. Activities carried out in a university setting up to a maximum of 20 CFU may be recognized by the Scientific Council as credits acquired for the purposes of completing the University Master's Degree, with a corresponding reduction in the training load due, provided that they are consistent with the training objectives and contents of the Course. Documented professional knowledge and skills may also be recognized for the same purpose, up to a maximum of 12 CFU as provided for by current legislation. These recognitions may be cumulated up to a maximum of 20 CFU.

Art. 10 - TERMS AND MODALITIES OF ADMISSION

Admission to the Course is primarily subject to the outcome of the suitability assessment by the Course Scientific Council, which is based on the coherence of the candidate's academic and professional curriculum and compliance with the requirements set out in the article "Qualifications and requirements for admission to the course".

1. If the number of eligible applications for enrolment is greater than the maximum number of places available, a selection procedure will be activated, to be carried out in the following manner:
Evaluation of the curriculum and qualifications with definition of a ranking.

2. Within 5 days of the deadline for submitting the pre-enrolment application, all candidates will be notified, at the email address indicated in the application for enrolment, of the outcome of the checks referred to in paragraph 1 of this article or the possible activation of the selection procedure referred to in paragraph 2, with information on the place, date and time of the procedure and on the evaluation criteria adopted.

Art. 11 - APPLICATIONS TERMS AND MODALITIES

1. The pre-registration application must be completed and submitted by **April 10, 2026** exclusively through the online computerized procedure, available in the appropriate section of the University website, at the address: <http://www.miiscrivo.unicam.it> where it will also be possible to access all the information and additional news relating to the same registration procedures. For information on the online registration procedure, contact the secretariat Tel. 0737402070; e-mail: master@unicam.it.

At the end of the registration process, a fee (approximately 10% of the tuition fee) must be paid.

2. To complete the online registration procedure, in addition to a copy of an identity document, you will be asked to fill out a self-certification declaration, the form of which can be found at the following address: <http://www.unicam.it/miiscrivo/iscrizionemaster>.
3. Those who have obtained the qualification abroad must attach additional documentation such as: a) original degree diploma translated and legalized; b) declaration of value (or the CIMEA Statement); c) degree certificate with exams taken, translated and legalized; d) copy of the residence permit or receipt of submission of the application for its issue (only non-EU students, both students and auditors, who will follow the master's degree in Italy). The Scientific Committee will evaluate the qualification obtained for the purposes of admission to the course.

Art. 12 – REVOCATION, SUSPENSION OR WITHDRAWAL

1. The student who does not fulfill the minimum attendance requirements set forth by the Course loses his/her status as a student.
2. The student who does not obtain the qualification within the deadline set for the final exam of the year of enrollment loses his/her status as a student. **In exceptional cases, the Scientific Council may provide for a further session to be held in any case within the end of the academic year of reference of the course.**
3. Failure to pay the second installment, within thirty days of the deadline, will automatically result in the loss of enrollment and the consequent loss of the right to participate in the activities set forth in the Course's educational plan as well as to obtain the final qualification.
4. In general, suspension of attendance requirements cannot be permitted. Suspension of training on the Course may be granted only in cases of prolonged illness (exceeding the maximum

percentage of absence), pregnancy or maternity/paternity (upon request of the interested party), upon presentation of the request to the competent office. In these cases, it is possible to obtain supernumerary admission to the edition in the immediately following academic year, subject to the re-edition of the Course.

5. The student may renounce his/her career at any time by submitting a specific request. The renouncement entails the loss of the status of student. Upon renouncement, the student is not entitled to a refund of any fees paid.

Art. 13 – REGISTRATION FEES

1. The registration fee is € 4.500, to be paid as specified below:
1st installment: €500 to be paid at the time of pre-registration;
2nd installment: €2000, by July 13, 2026;
3rd installment: €2.000 by November 16, 2026.
2. Members with a recognized disability pursuant to art. 3, paragraph 1, of Law no. 104 of 5 February 1992 or with a disability equal to or greater than 66% are required to pay a reduced contribution of 50% (they are not exempt from paying any special taxes that may be applicable for late payment contributions).
3. Members registered as Auditors are required to pay a reduced contribution of 25%.
4. The withdrawal from the Course, even as a listener, after the deadline for submitting the application for enrollment, or the forfeiture of enrollment according to the methods described in this announcement, will not give the right to any refund of the fees paid.
5. Bank transfers made from abroad must indicate in the reason for payment, the name of the student and the title of the course and must be made to the following account: IBAN IT47A0306969088100000300018 BIC BCITITMM and must indicate BANCA INTESA SANPAOLO SPA.

Art. 14 – EXAMS

1. At the end of the Course, only those enrolled who: will be in compliance with the required training obligations; will have attended at least 75% of the course (of the total hours); will have filled out the online course evaluation questionnaire available on the University website by connecting to the link <http://survey2.cs.unicam.it/limesurvey/index.php/259481?lang=it> ; will be able to take the final exam, which will be carried out in the following ways: thesis.
2. Any intermediate tests of the modules will result in evaluations expressed in 30. The final exam will result in a grade expressed in 110.
3. After successfully passing the final exam and filling out the online course evaluation questionnaire, the University of Camerino will issue: **Diploma di Master Universitario di I livello.**

Art. 15 - PERSONAL DATA

1. The personal data provided by candidates and registered students with the application for registration are processed in compliance with the principles set out in Legislative Decree 30 June 2003, n. 196 "Code regarding the protection of personal data" and the GDPR (EU Regulation 2016/679).
2. The application for registration to the Course, entails the expression of tacit consent to the personal data of the candidates and those relating to the selection tests being published on the University website and being processed exclusively for statistical purposes and for the analysis of the effectiveness of the training processes.

Art. 16 - PERSON IN CHARGE FOR THE PROCEDURE

1. As per the art. 5 of Law 7 August 1990, n. 241, the person responsible for the procedure referred to in this notice is Ing. Dr. Andrea Braschi (E-mail: andrea.braschi@unicam.it , tel. 0737-402005), General Director of the University of Camerino.

Art. 17 - MISCELLANEOUS

The call for applications is published on the website www.unicam.it in the section "Bandi".

For anything not expressly provided for in this Notice, including issues regarding simultaneous enrollment in university courses, reference is made to the current Italian National legislation and the regulations of the University of Camerino in force on the matter

Information note: If the masculine form is used in this document, for the sole purpose of simplification, it is understood that it refers inclusively to all interested parties.

Camerino, data del protocollo

The Rector
Prof. Graziano Leoni

Attachment n. 1 TEACHING PLAN

Attività formative/lessons	SSD	CFU/ECTS (25 ore x ogni CFU)	Numero ore didattica assistita					N. Ore di studio individuale
			Lezioni solo in presenza	Lezioni solo online	Lezioni in modalità mista	Didattica alternativa*	e-learning	
Anatomohistological bases for clinical biomechanics	BIO/16	4				22	28	50
Research Methodology and Critical Appraisal of the Scientific Literature in Biomechanics with Applications to Sports Medicine, Rehabilitation, and Sports Performance	M-EDF/01	1				5	7	13
Optimization of muscle activations and control/minimization of mechanical stresses acting on specific joint structures in therapeutic exercise	FIS-07	2	14			12		24
Neuromuscular activity and effects of fatigue, facilitation, training, disuse, rehabilitation, and electrical stimulation module #1 Neuromuscular activities and adaptations: effects of fatigue, facilitation, training, disuse, and rehabilitation module #2 Neuromuscular electrical stimulation: principles and applications	MED/33-MED/34	3	16			23	6	30
Principles of kinematics and kinetics and fundamentals of upper/lower trunk and limb biomechanics and kinesiology	MED/33-MED/34	4	24			30	6	40
Clinical biomechanics in subjects with musculoskeletal problems, movement disorders, neurological disorders, and advanced age	MED/33-MED/34	2				10	14	26
Evaluation of proprioception and static-dynamic balance	BIO/09	3	16			24	5	30
Principles of strength, isokinetic objectification, and electromyographic evaluation of muscle activity for exercise prescription and rehabilitation	MED/34	3	16			24	5	30

Biomechanics of the upper quadrant applied to sports	M-EDF/02	3	16			24	5	30
Biomechanics of the lower quadrant applied to sports	M-EDF/02	3	16			24	5	30
Biomechanical movement assessment methodologies in sport, exercise and rehabilitation (2-3D video analysis, optoelectronic analysis, inertial wearable sensors, force platforms and dynamometric objectification) module #1 Inertial wearable sensing, force platforms and dynamometric objectification module #2 2-3D video analysis and optoelectronic analysis	ING-INF/06	4	22			32	4	42
Biomechanics applied to work ergonomics: design, optimization and reconceptualization of workstations	ING-INF/34	1					7	18
Technologies, methodologies, and main applications of an optoelectronic motion analysis laboratory, with reference to clinical, ergonomic, and sports fields	M-EDF/02	3	16			24	5	30
Running biomechanics and technique analysis	ING-INF/02	3	16			24	5	30
Biomechanics for performance optimization: ideal movement patterns, injury risk reduction, performance economy, variations in sport-specific technique (module #1: sports with a prevalence of sprints and changes of direction, jumping sports, other sports)	M-EDF/02	3	16			24	5	30

Biomechanics for performance optimization: ideal movement patterns, injury risk reduction, performance economy, sport-specific gesture technique variations (module #2: cycling & bike fitting) module #1 Bike-fitting for road cycling module #2 Bike-fitting for time trial, hour record and in triathlon, mountain bike	M-EDF/02	2	8			16	6	20
The role of the biomechanist in sport: integration into a multidisciplinary team	M-EDF/02	1					7	18
Totali colonne		45	196	0	0	318	120	491
Totale tipologia didattica: assistita			634					
*Per didattica alternativa si intendono attività didattiche assistite dal docente o esperto quali ad esempio: esercitazioni, laboratori, seminari, testimonianze di esperti, visite aziendali guidate, partecipazione a convegni. <u>Legenda:</u> esercitazioni (E), laboratori (L), seminari (S), testimonianze di esperti (T), visite aziendali guidate (V), partecipazione a convegni (C), Altro (A).								

	CFU/ECTS	Ore/hours
Stage	5	125
Prova Finale (final exam)	10	250
Didattica (training/didactics)	45	1125
Totale complessivo (total)	60	1500

