



UNIVERSITA' DEGLI STUDI DI MILANO
PROGRAMME DESCRIPTION - ACADEMIC YEAR 2020/21
BACHELOR
Audiometric Techniques (Classe L/SNT3)
Enrolled since 2011/12 Academic Year

HEADING

Degree classification - Denomination and code:	L/SNT3 Health professions for technical assistance
Degree title:	Dottore
Length of course:	3 years
Total number of credits required to complete programme:	180
Years of course currently available:	1st , 2nd , 3rd
Access procedures:	Cap on student, student selection based on entrance test
Course code:	D73

PERSONS/ROLES

Head of Interdepartmental Study Programme

Prof. Umberto Ambrosetti

Tutors - Faculty

per l'orientamento:

prof.ssa Giovanna Cantarella

per i piani di studio:

dott.ssa Eliana Filipponi

per stage e tirocini:

dott.ssa Eliana Filipponi

per tesi di laurea:

prof.ssa Giovanna Cantarella

Degree Course website

<https://tecnicheaudiometriche.cdl.unimi.it/it>

CHARACTERISTICS OF DEGREE PROGRAMME

General and specific learning objectives

Those earning a degree in Audiometric Techniques, pursuant to European Union guidelines, must meet the following criteria:

- have a suitable baseline training in medicine, mathematics, physics, statistics, IT, chemistry, biology, geared towards applying these disciplines on the job;
- learn research methods to be used in their field, and be able to take part in medical research and trials, in particular for issues and aspects of the acoustic and vestibular sensory apparatus;
- master basic information-gathering techniques to seek out and complete continuing professional education;
- be able to analyse epidemiological concerns within a community, and assess the responses provided by healthcare or social-welfare services;
- have an understanding of biological phenomena and the operational mechanisms of sensory organs and apparatus;
- learn the basic physiology of the auditory apparatus and the inner ear;
- gain a basic scientific knowledge of changes to auditory and vestibular functions, and rehabilitation methods;
- use diagnostic techniques to perform otoscopic assessments;
- acquire skills in liminal and supraliminal audiometry;
- acquire skills in paediatric behavioural audiometry;
- acquire skills in biological-impedance testing;
- acquire skills in oto-neurological investigations for diagnosing pathologies in a person's equilibrium;
- learn the basics of recording bioelectrical phenomena;
- become familiar with, and able to perform, electro-physiological testing of the auditory and vestibular system;
- learn the basics of acoustic and phonometric measurements;
- learn how to plan and conduct screening tests for children and adults;

- learn exam techniques for the detection and diagnosis of hypoacusis caused by acoustic trauma in the workplace;
- acquire the investigatory methods to determine the electro-acoustical nature of acoustic prosthetics and hearing aids;
- be familiar with rehabilitation methods used for deafness;
- be familiar with and understand the technological supports used to recover from deafness;
- be familiar with rehabilitation methods used with patients who have suffered an injury to the vestibular apparatus;
- know how to design prevention and diagnostic actions for those with auditory disabilities in a manner that accords with their social, cultural, and physical status;
- learn the basics of research methods and programme development;
- gain teaching skills for the training of interns / students on a work experience, and to teach paramedical staff.

Professional profile and employment opportunities

The Audiometric Technician is a healthcare worker engaged in preventing and assessing pathologies within the auditory and vestibular system, as well as in the rehabilitation process. Those graduating with a degree in Audiometric Techniques conduct their technical-professional work on an independent basis, performing non-invasive psycho-acoustical and neurophysiological assessments and measurements of the impairment arising from pathologies in such systems. They provide professional services at the request of a physician but independently and under their own professional responsibility. They liaise with other professionals engaged in deafness prevention and rehabilitation. The Audiometric Technician conducts his/her professional activities within a finite specialisation, using the most suitable testing techniques to measure auditory perception. Technicians become proficient in recording and interpreting bioelectrical phenomena triggered by an acoustic stimulus, working with rehabilitative programmes aimed at patients with an auditory handicap. They apply non-invasive methods as needed to study balance disorders, and contribute to rehabilitation programmes for such disorders. Graduates of this programme have direct responsibility for the results of the methods they use, their reliability, and the proper recording and retention of all materials relating to the same.

Employment opportunities for those earning a degree in Audiometric Techniques are available through healthcare facilities involved in preventing, diagnosing, and treating illnesses relating to the auditory apparatus, and a patient's equilibrium: public or private hospitals equipped with otology services, healthcare services providing deafness prevention (for children, professionals, and instances of industrial or toxicological deafness), industries that develop hearing-aid technologies, rehabilitation centres for patients with injuries to their oto-vestibular apparatus.

EXPERIENCE OF STUDY ABROAD AS PART OF THE TRAINING PROGRAM

The University of Milan supports international mobility by providing its students with the opportunity to spend study and internship periods abroad. It is a unique chance to enrich your educational path in a new exciting environment

The agreements entered into by the University with over 300 universities from 30 different countries under the European Erasmus+ programme allow regularly enrolled students to carry out part of their studies at one of the partner universities or to undertake internships at companies, training and research centres and other organizations.

Similar international mobility opportunities are provided outside Europe, through agreements with a number of prestigious institutions.

How to participate in Erasmus mobility programs

The students of the University of Milan can participate in mobility programmes, which last 3 to 12 months, through a public selection procedure.

Ad hoc commissions will evaluate:

- the candidate's proposed study programme abroad;
- his/her foreign language proficiency;
- the reasons behind his/her application.

Call for applications and informative meetings:

The public selection generally begins around February each year with the publication of a call for applications specifying the destinations, with the respective programme duration, requirements and online application deadline.

Every year, before the deadline for the call, the University organizes informative meetings to illustrate opportunities and rules for participation to students.

Erasmus+ scholarship:

The European Union grants the winners of the Erasmus+ programme selection a scholarship to contribute to their mobility costs, which is supplemented by the University funding for disadvantaged students.

Language courses:

Students who pass the selections for mobility programmes can benefit from intensive foreign language courses offered each year by the University.

Learn more at <https://www.unimi.it/it/internazionale/studiare-allestero/partire-con-erasmus>.

For assistance, please contact:
International Mobility Office
Via Santa Sofia, 9 (second floor)
Tel. 02 503 13501-12589-13495-13502
E-mail: mobility.out@unimi.it
Desk opening hours: Monday to Friday 9 am - 12 noon

1st COURSE YEAR Core/compulsory courses/activities common		
Learning activity	Ects	Sector
1st year laboratory: instruments for environmental measurements	1	ND
1st year seminar: audiometrical diagnostic strategies	1	ND
Anatomy and histology	4	(1) BIO/17, (3) BIO/16
Apprenticeship (1st year)	22	MED/50
Audiology: techniques of audiological investigation	4	MED/32
Biology and genetics	6	(2) MED/03, (2) BIO/13, (2) BIO/12
Computer Science Course	3	INF/01
English assessment B1 (2 ECTS)	2	ND
Physics and statistics	6	(2) MED/01, (2) ING-INF/07, (2) FIS/07
Physiology, pathology and pathological anatomy	5	(2) MED/04, (2) BIO/09, (1) MED/08
Psychology and sociology	5	(1) MED/02, (2) M-PSI/01, (2) SPS/07
	Total compulsory credits	59
Elective courses		
2nd COURSE YEAR Core/compulsory courses/activities common		
Learning activity	Ects	Sector
2nd year laboratory: instruments for audiological investigations	1	ND
2nd year seminar: vestibular diagnostic strategies	1	ND
Applied technical and medical science I	5	MED/50
Apprenticeship (2nd year)	21	MED/50
Audiology and audiophonology	5	(1) MED/31, (2) L-LIN/01, (2) MED/32
Medicine	7	(4) MED/09, (2) MED/32, (1) MED/05
Physiopathology of the auditory and vestibular system	8	(2) MED/39, (2) MED/31, (1) MED/32, (2) MED/26, (1) MED/36
Science of prevention and sanitary management	9	(2) SECS-S/02, (1) IUS/07, (1) SECS-P/10, (2) MED/43, (2) MED/42, (1) SPS/09
	Total compulsory credits	57
Elective courses		
3rd COURSE YEAR Core/compulsory courses/activities common		
Learning activity	Ects	Sector
3rd year laboratory: cleaning and conservation of instruments	1	ND
3rd year seminar: vestibular rehabilitation	1	ND
Applied technical and medical science II	12	MED/50
Apprenticeship (3rd year)	32	MED/50
Clinical medicine	5	(1) MED/39, (2) MED/38, (1) MED/48, (1) MED/44
	Total compulsory credits	51
Elective courses		
End of course requirements		
Final test	7	NA
	Total compulsory credits	7