



# UNIVERSITÀ DEGLI STUDI DI PALERMO

DEPARTMENT	Biomedicina, Neuroscienze e Diagnostica avanzata			
ACADEMIC YEAR	2021/2022			
BACHELOR'S DEGREE (BSC)	AUDIOPROTHESIC TECHNIQUES			
SUBJECT	TINNITUS, HYPERACUSIS AND DISORDERS OF HEARING PROCESS			
TYPE OF EDUCATIONAL ACTIVITY	C			
AMBIT	10731-Attività formative affini o integrative			
CODE	20402			
SCIENTIFIC SECTOR(S)	MED/32			
HEAD PROFESSOR(S)	MARTINES FRANCESCO Professore Associato		Univ. di PALERMO	
OTHER PROFESSOR(S)				
CREDITS	3			
INDIVIDUAL STUDY (Hrs)	45			
COURSE ACTIVITY (Hrs)	30			
PROPAEDEUTICAL SUBJECTS				
MUTUALIZATION				
YEAR	3			
TERM (SEMESTER)	2° semester			
ATTENDANCE	Mandatory			
EVALUATION	Out of 30			
TEACHER OFFICE HOURS	<b>MARTINES FRANCESCO</b> Monday    10:00    12:00    Ambulatorio di Audiologia infantile - AOUP Paolo Giaccone			

**DOCENTE:** Prof. FRANCESCO MARTINES

<b>PREREQUISITES</b>	The student should know the main principles of Audiology, the anatomy and physiology of the hearing system and the main audiometric tests.
<b>LEARNING OUTCOMES</b>	<p><b>KNOWLEDGE AND UNDERSTANDING:</b> Knowledge of the general principles of Tinnitus science. Knowledge of the importance of the study of patient suffering from tinnitus and his clinical picture. Knowledge of hyperacusis, its associated disorders and APD. In order to verify the achieving of this objective, it is expected to include in the exam a certain number of exercises (e.g. audiograms and clinical cases).</p> <p><b>CAPACITY TO APPLY KNOWLEDGE and UNDERSTANDING:</b> Ability to evaluate a patient suffering from tinnitus with or without comorbidities. Ability to choose the correct diagnostic and rehabilitative technique. Ability to evaluate accuracy and relevance of diagnostic testing according to mental and chronologic age.</p> <p><b>JUDGMENT SKILLS:</b> Being able to independently assess the problems and the therapeutic path related to tinnitus, hyperacusis and auditory processing disorders..</p> <p><b>COMMUNICATION SKILLS:</b> Ability to expose and motivate operational choices, depending on the individual characteristics of the patient, the family context and the environmental characteristics.</p> <p><b>LEARNING SKILLS:</b> Ability to use the appropriate tools to carry out self-updating and to participate in continuous updating initiatives in the professional field.</p>
<b>ASSESSMENT METHODS</b>	<p>The oral exam is an interview, aimed at determining whether the candidate has developed the skills and the disciplinary knowledge provided by the course; the evaluation is expressed in thirtieths. The questions (input), both open and semi-structured and specifically designed to test the results of learning provided, will verify a) the acquired knowledge; b) the processing capabilities, c) the possess of an adequate capacity to discuss the topics of the exam.</p> <p>a) As regards to the verification of knowledge, the ability to make connections between contents (theories, models, tools, etc.) will be required.</p> <p>b) Concerning the verification of processing capacity, at least one of the following three objectives will be indicated:</p> <p>b1) to provide independent judgments regarding the disciplinary contents;</p> <p>b2) to understand the applications or implications of the aforementioned judgments within the discipline;</p> <p>b3) to place the disciplinary contents within the professional, technological or socio-cultural context of reference.</p> <p>The maximum score is obtained if the exam verifies the full possession of the following three skills: a capacity of judgment able to represent emerging and / or little explored aspects of the discipline; a marked ability to represent the impact of course's contents within the sector / discipline in which they are; finally, a mastery of the ability to represent innovative ideas and / or solutions within the professional, technological or socio-cultural context of reference.</p> <p>c) Regarding the verification of the ability to show the acquired knowledge, a minimum evaluation will be achieved when the examiner demonstrates that the candidate exhibits a language property appropriate to the professional context of reference but not sufficiently articulated, while the maximum evaluation can be achieved by candidates who demonstrate full mastery of the sectorial language.</p>
<b>EDUCATIONAL OBJECTIVES</b>	<p>After completing the course the student must have learnt:</p> <ul style="list-style-type: none"> <li>-Epidemiology, classification, diagnostic tools and therapy of tinnitus;</li> <li>-Clinical characteristics and assessment of hyperacusis and its related disorders;</li> <li>-Classification and clinical pictures of auditory processing disorders.</li> </ul>
<b>TEACHING METHODS</b>	Lessons
<b>SUGGESTED BIBLIOGRAPHY</b>	<p>-"Argomenti di Audiologia" Autori: S. Prosser e A. Martini Edizioni: Omega</p> <p>-Dispense fornite dal docente</p>

## SYLLABUS

Hrs	Frontal teaching
3	Introduction and classification of tinnitus
3	Epidemiology and causes of tinnitus
3	Neuropathophysiology of tinnitus
3	Diagnostic tests and self-assessment questionnaires
3	Tinnitus therapy: the role of the hearing aid specialist
3	Tinnitus and psychiatric comorbidities
3	Hyperacusis: definition and clinical pictures
3	Hyperacusis: diagnostic tools and therapeutic options
3	Auditory processing disorders: epidemiology, aetiology and clinical pictures

## SYLLABUS

Hrs	Frontal teaching
3	Auditory processing disorders among children and adolescents