

AUDI90012 Electrophysiological Assessment A

Credit Points:	6.25														
Level:	9 (Graduate/Postgraduate)														
Dates & Locations:	2015, Parkville This subject commences in the following study period/s: Semester 2, Parkville - Taught on campus.														
Time Commitment:	Contact Hours: 28 hours of lectures, tutorials and practical sessions. Total Time Commitment: 85 hours														
Prerequisites:	<table border="1"> <thead> <tr> <th>Subject</th> <th>Study Period Commencement:</th> <th>Credit Points:</th> </tr> </thead> <tbody> <tr> <td>AUDI90015 Acoustics</td> <td>Semester 1</td> <td>6.25</td> </tr> <tr> <td>ANAT90004 Anatomy and Physiology of the Auditory System</td> <td>Semester 1</td> <td>6.25</td> </tr> <tr> <td>AUDI90016 Pathologies of the Auditory System</td> <td>Semester 1</td> <td>6.25</td> </tr> </tbody> </table>			Subject	Study Period Commencement:	Credit Points:	AUDI90015 Acoustics	Semester 1	6.25	ANAT90004 Anatomy and Physiology of the Auditory System	Semester 1	6.25	AUDI90016 Pathologies of the Auditory System	Semester 1	6.25
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Recommended Background Knowledge:	N/A														
Non Allowed Subjects:	N/A														
Core Participation Requirements:	N/A														
Coordinator:	Dr Jessica Vitkovic														
Contact:	<p>Audiology Melbourne School of Health Sciences The University of Melbourne</p> <p>Alan Gilbert Building Level 7, 161 Barry St Carlton Victoria 3010 AUSTRALIA T: +61 3 8344 4171 F: +61 3 8344 4188 E: audspeech-enquiries@unimelb.edu.au (mailto:audspeech-enquiries@unimelb.edu.au) W: www.audspeech.unimelb.edu.au (http://www.nursing.unimelb.edu.au/)</p>														
Subject Overview:	<p>This subject introduces students to the basic concepts of bioengineering and signal processing relevant to electrophysiological measures used in audiology; the measurement and analysis of the auditory brainstem response; the theory and application of basic vestibular assessment including patient history and the Caloric, Vestibular Myogenic Evoked Potential (VEMP) and Hallpike tests; and the theory and application of Otoacoustic Emission (OAE) testing.</p>														
Learning Outcomes:	<p>At the completion of this subject the students should be able to:</p> <ul style="list-style-type: none"> • Understand the basic concepts of bioengineering and signal processing relevant to electrophysiological measures used in Audiology • Understand the measurement and analysis of the Auditory Brainstem Response (ABR) and its use in infant hearing screening and diagnostic hearing assessment 														

	<ul style="list-style-type: none"> • Demonstrate the developing ability to obtain, analyse and interpret ABR results, and to write accurate ABR reports • Understand the theory and application of basic vestibular assessment including patient history and the Caloric, Vestibular Myogenic Evoked Potential (VEMP) and Hallpike tests • Demonstrate developing skills in administering vestibular function tests; analysing, interpreting and integrating these test results; and writing accurate vestibular assessment reports • Apply the knowledge and skills obtained in the subject to determine appropriate electrophysiological assessment techniques for patients • Understand the theory and application of Otoacoustic Emission (OAE) testing • Demonstrate developing skills in administering OAE tests and analysing, interpreting and integrating OAE results with other audiological test results
Assessment:	Two written assignments of no more than 250 words each due in mid- to late- semester 2 and of equal weighting – 20% A two hour written examination at the end of the semester – 80% Hurdle Requirement: Students must pass the written examination in order to pass this subject.
Prescribed Texts:	Nil
Recommended Texts:	Nil
Breadth Options:	This subject is not available as a breadth subject.
Fees Information:	Subject EFTSL, Level, Discipline & Census Date, http://enrolment.unimelb.edu.au/fees
Generic Skills:	<p>At the completion of this subject, students should be able to demonstrate:</p> <ul style="list-style-type: none"> • critical thinking, analytical and problem solving skills • the ability to integrate theory and practice and to apply this in novel situations • an openness to new ideas • planning and time management skills • the ability to communicate their knowledge in both oral and written form
Related Course(s):	Master of Clinical Audiology