AUDI90012 Electrophysiological Assessment A

Credit Points:	6.25
Level:	9 (Graduate/Postgraduate)
Dates & Locations:	2016, 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:	

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

Corequisites:

Subject	Study Period Commencement:	Credit Points:
AUDI90021 Clinical Audiology A	Year Long	25

Recommended Background Knowledge:	N/A
Non Allowed Subjects:	N/A
Core Participation Requirements:	For the purposes of considering request for Reasonable Adjustments under the Disability Standards for Education (Cwth 2005), and Student Support and Engagement Policy, academic requirements for this subject are articulated in the Subject Overview, Learning Outcomes, Assessment and Generic Skills sections of this entry. It is University policy to take all reasonable steps to minimise the impact of disability upon academic study, and reasonable adjustments will be made to enhance a student's participation in the University's programs. Students who feel their disability may impact on meeting the requirements of this subject are encouraged to discuss this matter with a Faculty Student Adviser and Student Equity and Disability Support: http://services.unimelb.edu.au/disability
Coordinator:	Dr Jessica Vitkovic
Contact:	**jessicav@unimelb.edu.au (mailto:jessicav@unimelb.edu.au)**
Subject Overview:	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.
Learning Outcomes:	At the completion of this subject the students should be able to: • 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 • 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:	At the completion of this subject, students should be able to demonstrate: • 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