



CAUD8010

Advanced Hearing Devices

Session 1, Weekday attendance, North Ryde 2020

Dept of Linguistics

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General Information

Unit convenor and teaching staff

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Credit points

10

Prerequisites

(CAUD805 or CAUD8005) and (CAUD806 or CAUD8006) and (CAUD807 or CAUD8007)

Corequisites

Co-badged status

Unit description

This unit aims to equip students with a deep understanding of and the ability to evaluate the applications of hearing aids, implantable devices, and assistive listening systems. The unit develops students' understanding of the mechanisms by which hearing devices meet the needs of hearing impaired people and the evidence for the effectiveness of a variety of technologies. In a wider sense this unit aims to equip students with the skills and information needed to evaluate existing and emerging hearing device technologies to provide evidence-based treatment.

Important Academic Dates

Information about important academic dates including deadlines for withdrawing from units are available at <https://students.mq.edu.au/important-dates>

Learning Outcomes

ULO2: Examine and appraise signal processing; its importance in regulating the advanced features of hearing devices and its strengths and limitations

ULO1: Extend basic knowledge acquired in CAUD805 to a more in-depth understanding of the complex technological features of modern hearing devices.

ULO3: Debate and critically evaluate the clinical benefits/efficacy of hearing device technology

ULO4: Translate theoretical knowledge to technical skills, and practical aspects of

hearing device selection and fitting.

ULO5: Implement knowledge and skills to facilitate clinical practice including; fitting, verifying, measuring the outcomes and evaluating future technologies of hearing devices

Assessment Tasks

Name	Weighting	Hurdle	Due
<u>Cochlear Implant essay</u>	25%	No	Week 4
<u>Client fitting assignment</u>	15%	No	Week 7 recess
<u>Group project</u>	20%	No	Week 10
<u>Final examination</u>	40%	No	Exam period

Cochlear Implant essay

Assessment Type ¹: Essay

Indicative Time on Task ²: 20 hours

Due: **Week 4**

Weighting: **25%**

The essay will cover the topics of cochlear implant candidacy, factors affecting success and the intersection of hearing aid and cochlear implant fittings. Word count 2500.

On successful completion you will be able to:

- Extend basic knowledge acquired in CAUD805 to a more in-depth understanding of the complex technological features of modern hearing devices.
- Debate and critically evaluate the clinical benefits/efficacy of hearing device technology
- Implement knowledge and skills to facilitate clinical practice including; fitting, verifying, measuring the outcomes and evaluating future technologies of hearing devices

Client fitting assignment

Assessment Type ¹: Case study/analysis

Indicative Time on Task ²: 15 hours

Due: **Week 7 recess**

Weighting: **15%**

Students will be assigned a client with a particular hearing loss and background, appropriate hearing aid and other technology must be selected and discussed. 2500 words.

On successful completion you will be able to:

- Examine and appraise signal processing; its importance in regulating the advanced

features of hearing devices and its strengths and limitations

- Extend basic knowledge acquired in CAUD805 to a more in-depth understanding of the complex technological features of modern hearing devices.
- Debate and critically evaluate the clinical benefits/efficacy of hearing device technology
- Translate theoretical knowledge to technical skills, and practical aspects of hearing device selection and fitting.
- Implement knowledge and skills to facilitate clinical practice including; fitting, verifying, measuring the outcomes and evaluating future technologies of hearing devices

Group project

Assessment Type ¹: Project

Indicative Time on Task ²: 15 hours

Due: **Week 10**

Weighting: **20%**

Students will work in groups to examine the practicalities of setting up a private practice. There are many issues in running a successful business. However, this group project aims to focus on 3 issues which are: (1) securing income; (2) controlling expenses; and (3) complying with regulations. Further details will be provided. No fixed word count.

On successful completion you will be able to:

- Translate theoretical knowledge to technical skills, and practical aspects of hearing device selection and fitting.

Final examination

Assessment Type ¹: Examination

Indicative Time on Task ²: 25 hours

Due: **Exam period**

Weighting: **40%**

Long and short answers.

On successful completion you will be able to:

- Examine and appraise signal processing; its importance in regulating the advanced features of hearing devices and its strengths and limitations
- Extend basic knowledge acquired in CAUD805 to a more in-depth understanding of the complex technological features of modern hearing devices.
- Debate and critically evaluate the clinical benefits/efficacy of hearing device technology
- Translate theoretical knowledge to technical skills, and practical aspects of hearing device selection and fitting.

¹ If you need guidance or support to understand or complete this type of assessment, please contact the Learning Skills Team

² Indicative time-on-task is an estimate of the time required for completion of the assessment task and is subject to individual variation

Delivery and Resources

Technology

Work will require basic general computer skills. Some knowledge of Audiology specific technology such as audiometers, real-ear fitting hardware and software is assumed (CAUD805 is a pre-requisite and should furnish the requisite skills). No additional technology is required.

Information

iLearn will predominantly be used for communication, provision of lecture materials and discussion.

Policies and Procedures

Macquarie University policies and procedures are accessible from [Policy Central](https://staff.mq.edu.au/work/strategy-planning-and-governance/university-policies-and-procedures/policy-central) (<https://staff.mq.edu.au/work/strategy-planning-and-governance/university-policies-and-procedures/policy-central>). Students should be aware of the following policies in particular with regard to Learning and Teaching:

- [Academic Appeals Policy](#)
- [Academic Integrity Policy](#)
- [Academic Progression Policy](#)
- [Assessment Policy](#)
- [Fitness to Practice Procedure](#)
- [Grade Appeal Policy](#)
- [Complaint Management Procedure for Students and Members of the Public](#)
- [Special Consideration Policy](#) (**Note:** *The Special Consideration Policy is effective from 4 December 2017 and replaces the Disruption to Studies Policy.*)

Students seeking more policy resources can visit the [Student Policy Gateway](https://students.mq.edu.au/support/study/student-policy-gateway) (<https://students.mq.edu.au/support/study/student-policy-gateway>). It is your one-stop-shop for the key policies you need to know about throughout your undergraduate student journey.

If you would like to see all the policies relevant to Learning and Teaching visit [Policy Central](https://staff.mq.edu.au/work/strategy-planning-and-governance/university-policies-and-procedures/policy-central) (<https://staff.mq.edu.au/work/strategy-planning-and-governance/university-policies-and-procedures/policy-central>).

Student Code of Conduct

Macquarie University students have a responsibility to be familiar with the Student Code of Conduct: <https://students.mq.edu.au/study/getting-started/student-conduct>

Results

Results published on platform other than [eStudent](#), (eg. iLearn, Coursera etc.) or released directly by your Unit Convenor, are not confirmed as they are subject to final approval by the University. Once approved, final results will be sent to your student email address and will be made available in [eStudent](#). For more information visit ask.mq.edu.au or if you are a Global MBA student contact globalmba.support@mq.edu.au

Student Support

Macquarie University provides a range of support services for students. For details, visit <http://students.mq.edu.au/support/>

Learning Skills

Learning Skills (mq.edu.au/learningskills) provides academic writing resources and study strategies to improve your marks and take control of your study.

- [Workshops](#)
- [StudyWise](#)
- [Academic Integrity Module for Students](#)
- [Ask a Learning Adviser](#)

Student Enquiry Service

For all student enquiries, visit Student Connect at ask.mq.edu.au

If you are a Global MBA student contact globalmba.support@mq.edu.au

Equity Support

Students with a disability are encouraged to contact the [Disability Service](#) who can provide appropriate help with any issues that arise during their studies.

IT Help

For help with University computer systems and technology, visit http://www.mq.edu.au/about_us/offices_and_units/information_technology/help/.

When using the University's IT, you must adhere to the [Acceptable Use of IT Resources Policy](#). The policy applies to all who connect to the MQ network including students.