



# CAUD803

## Theoretical Bases of Audiology

S1 Day 2017

*Dept of Linguistics*

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#### **Disclaimer**

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## General Information

Unit convenor and teaching staff

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Credit points

4

Prerequisites

Admission to MCLinAudiology

Corequisites

CAUD802 and CAUD804 and CAUD819

Co-badged status

Unit description

This unit will: - equip students with the theoretical concepts underpinning audiological assessment techniques and aural rehabilitation strategies. This includes an in-depth review of the anatomy and physiology of the auditory system; - provide core acoustic concepts including the nature of sound and the principles of sound transmission and room acoustics and discuss how these apply to audiometric test environments and equipment calibration; and - facilitate the development of problem-solving and clinical reasoning skills, particularly when audiometric information appears inconsistent.

## Important Academic Dates

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

## Learning Outcomes

On successful completion of this unit, you will be able to:

to develop an understanding of the auditory system and how it functions and the need for binaural hearing

to develop an understanding of common disorders of the auditory system and the underlying pathophysiology

to develop an understanding of acoustics, sound transmission and instrument calibration

## Assessment Tasks

Name	Weighting	Hurdle	Due
<a href="#">Anatomy &amp; Physiology Quiz</a>	15%	No	14/03/2017
<a href="#">Acoustics Quiz</a>	15%	No	23/03/2017
<a href="#">Exam</a>	40%	No	Exam period
<a href="#">Case-based Assessment:</a>	30%	No	08/05/2017

### Anatomy & Physiology Quiz

Due: **14/03/2017**

Weighting: **15%**

This exercise aims to integrate and apply the knowledge of auditory anatomy and physiology that you have acquired throughout lectures A1-3 of this unit.

On successful completion you will be able to:

- to develop an understanding of the auditory system and how it functions and the need for binaural hearing

### Acoustics Quiz

Due: **23/03/2017**

Weighting: **15%**

This exercise aims to integrate and apply the knowledge of acoustics that you have acquired throughout lectures B1-4 of this unit.

On successful completion you will be able to:

- to develop an understanding of acoustics, sound transmission and instrument calibration

### Exam

Due: **Exam period**

Weighting: **40%**

The aim is to integrate and apply the theory learned in this unit. To be announced. The examination will be scheduled within the University's mid-year examination period. This exam will be 3 hours in duration.

On successful completion you will be able to:

- to develop an understanding of the auditory system and how it functions and the need for binaural hearing
- to develop an understanding of common disorders of the auditory system and the underlying pathophysiology
- to develop an understanding of acoustics, sound transmission and instrument calibration

## Case-based Assessment:

Due: **08/05/2017**

Weighting: **30%**

This case-based assignment aims to evaluate your understanding of a specific auditory disorder and classroom acoustics in your application to a clinical case. This will be provided on the CAUD803 iLearn website.

On successful completion you will be able to:

- to develop an understanding of the auditory system and how it functions and the need for binaural hearing
- to develop an understanding of acoustics, sound transmission and instrument calibration

## Delivery and Resources

This unit is a blended unit and includes both online and face-to-face delivery.

## Policies and Procedures

Macquarie University policies and procedures are accessible from [Policy Central](#). Students should be aware of the following policies in particular with regard to Learning and Teaching:

Academic Honesty Policy [http://mq.edu.au/policy/docs/academic\\_honesty/policy.html](http://mq.edu.au/policy/docs/academic_honesty/policy.html)

Assessment Policy [http://mq.edu.au/policy/docs/assessment/policy\\_2016.html](http://mq.edu.au/policy/docs/assessment/policy_2016.html)

Grade Appeal Policy <http://mq.edu.au/policy/docs/gradeappeal/policy.html>

Complaint Management Procedure for Students and Members of the Public [http://www.mq.edu.au/policy/docs/complaint\\_management/procedure.html](http://www.mq.edu.au/policy/docs/complaint_management/procedure.html)

Disruption to Studies Policy (in effect until Dec 4th, 2017): [http://www.mq.edu.au/policy/docs/disruption\\_studies/policy.html](http://www.mq.edu.au/policy/docs/disruption_studies/policy.html)

Special Consideration Policy (in effect from Dec 4th, 2017): <https://staff.mq.edu.au/work/strategy-planning-and-governance/university-policies-and-procedures/policies/special-consideration>

In addition, a number of other policies can be found in the [Learning and Teaching Category](#) of 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/support/student\\_conduct/](https://students.mq.edu.au/support/student_conduct/)

## Results

Results shown in *iLearn*, 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](http://ask.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](http://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 Services and 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.

## Student Enquiries

For all student enquiries, visit Student Connect at [ask.mq.edu.au](http://ask.mq.edu.au)

## IT Help

For help with University computer systems and technology, visit [http://www.mq.edu.au/about\\_us/offices\\_and\\_units/information\\_technology/help/](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.

## Graduate Capabilities

### PG - Discipline Knowledge and Skills

Our postgraduates will be able to demonstrate a significantly enhanced depth and breadth of knowledge, scholarly understanding, and specific subject content knowledge in their chosen fields.

This graduate capability is supported by:

## **Learning outcomes**

- to develop an understanding of the auditory system and how it functions and the need for binaural hearing
- to develop an understanding of common disorders of the auditory system and the underlying pathophysiology
- to develop an understanding of acoustics, sound transmission and instrument calibration

## **Assessment tasks**

- Anatomy & Physiology Quiz
- Acoustics Quiz
- Exam
- Case-based Assessment:

## **PG - Critical, Analytical and Integrative Thinking**

Our postgraduates will be capable of utilising and reflecting on prior knowledge and experience, of applying higher level critical thinking skills, and of integrating and synthesising learning and knowledge from a range of sources and environments. A characteristic of this form of thinking is the generation of new, professionally oriented knowledge through personal or group-based critique of practice and theory.

This graduate capability is supported by:

## **Learning outcomes**

- to develop an understanding of the auditory system and how it functions and the need for binaural hearing
- to develop an understanding of common disorders of the auditory system and the underlying pathophysiology

## **Assessment tasks**

- Anatomy & Physiology Quiz
- Exam
- Case-based Assessment:

## **PG - Research and Problem Solving Capability**

Our postgraduates will be capable of systematic enquiry; able to use research skills to create new knowledge that can be applied to real world issues, or contribute to a field of study or practice to enhance society. They will be capable of creative questioning, problem finding and problem solving.

This graduate capability is supported by:

## Learning outcomes

- to develop an understanding of the auditory system and how it functions and the need for binaural hearing
- to develop an understanding of acoustics, sound transmission and instrument calibration

## Assessment tasks

- Anatomy & Physiology Quiz
- Acoustics Quiz
- Exam
- Case-based Assessment: