



# CAUD8003

## Theoretical Bases of Audiology

Session 1, Weekday attendance, North Ryde 2020

*Dept of Linguistics*

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#### **Disclaimer**

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## General Information

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Credit points

10

Prerequisites

Admission to MClinAudiology

Corequisites

(CAUD802 or CAUD8002) and (CAUD804 or CAUD8004) and (CAUD819 or CAUD8001)

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://students.mq.edu.au/important-dates>

## Learning Outcomes

**ULO1:** Demonstrate an understanding of the auditory system, how it functions, and the importance of binaural hearing for localisation and listening in noise.

**ULO2:** Describe and evaluate the common disorders of the auditory system, their underlying pathophysiology, and typical clinical outcomes.

**ULO3:** Explain and apply the basic principles of acoustics, acoustic measures, and instrument calibration.

**ULO4:** Describe and critically evaluate the properties and analysis of complex sounds,

sound transmission, and sound field testing

## General Assessment Information

### Late Assessment Task Procedure

The procedure for the handling of late submission of assessment tasks is as follows:

- Extensions will only be granted on documented evidence of significant disruption to your studies and can be requested by completing a Special Consideration request via [ask.mq.edu.au](https://ask.mq.edu.au) with the requisite supporting documentation.
- Unless you have been granted an extension under special consideration, a penalty of 5% of the total marks for the assessment task per day (with the weekend counting as one day) will apply to late submissions.
- Unless otherwise negotiated, assessment tasks will not be accepted at all AFTER the date on which the marked assignments are returned to students in the unit.

## Assessment Tasks

Name	Weighting	Hurdle	Due
<a href="#">Acoustics Quiz</a>	15%	No	19/03/2020
<a href="#">Anatomy &amp; Physiology Quiz</a>	15%	No	02/04/2020
<a href="#">Case-based assessment</a>	30%	No	11/05/2020
<a href="#">Exam</a>	40%	No	Exam period

### Acoustics Quiz

Assessment Type <sup>1</sup>: Quiz/Test

Indicative Time on Task <sup>2</sup>: 10 hours

Due: **19/03/2020**

Weighting: **15%**

This assessment enables the student to demonstrate their knowledge of acoustics through short-answer questions.

On successful completion you will be able to:

- Explain and apply the basic principles of acoustics, acoustic measures, and instrument calibration.

### Anatomy & Physiology Quiz

Assessment Type <sup>1</sup>: Quiz/Test

Indicative Time on Task <sup>2</sup>: 10 hours

Due: **02/04/2020**

Weighting: **15%**

This assessment enables the student to demonstrate their knowledge of the anatomy and physiology of the auditory pathway through short-answer questions.

On successful completion you will be able to:

- Demonstrate an understanding of the auditory system, how it functions, and the importance of binaural hearing for localisation and listening in noise.
- Describe and evaluate the common disorders of the auditory system, their underlying pathophysiology, and typical clinical outcomes.

## Case-based assessment

Assessment Type <sup>1</sup>: Case study/analysis

Indicative Time on Task <sup>2</sup>: 30 hours

Due: **11/05/2020**

Weighting: **30%**

This assessment enables the student to demonstrate their understanding of a specific auditory disorder and effects of room acoustics in the application to a clinical case. The expected length is 2000 words.

On successful completion you will be able to:

- Demonstrate an understanding of the auditory system, how it functions, and the importance of binaural hearing for localisation and listening in noise.
- Describe and evaluate the common disorders of the auditory system, their underlying pathophysiology, and typical clinical outcomes.
- Explain and apply the basic principles of acoustics, acoustic measures, and instrument calibration.
- Describe and critically evaluate the properties and analysis of complex sounds, sound transmission, and sound field testing

## Exam

Assessment Type <sup>1</sup>: Examination

Indicative Time on Task <sup>2</sup>: 25 hours

Due: **Exam period**

Weighting: **40%**

This assessment enables the student to demonstrate their understanding of core concepts in this unit, and show their ability to integrate and apply these to clinical problems.

On successful completion you will be able to:

- Demonstrate an understanding of the auditory system, how it functions, and the importance of binaural hearing for localisation and listening in noise.
- Describe and evaluate the common disorders of the auditory system, their underlying pathophysiology, and typical clinical outcomes.
- Explain and apply the basic principles of acoustics, acoustic measures, and instrument calibration.
- Describe and critically evaluate the properties and analysis of complex sounds, sound transmission, and sound field testing

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

<sup>2</sup> 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

Online lectures and face to face reviews

## 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/p) (<https://staff.mq.edu.au/work/strategy-planning-and-governance/university-policies-and-procedures/p>

[olicy-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](http://ask.mq.edu.au) or if you are a Global MBA student contact [globalmba.support@mq.edu.au](mailto: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](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 Enquiry Service

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

If you are a Global MBA student contact [globalmba.support@mq.edu.au](mailto: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/](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.