## General Information

<table>
<thead>
<tr>
<th>Unit convenor and teaching staff</th>
<th></th>
</tr>
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<tbody>
<tr>
<td><strong>Unit Convenor</strong></td>
<td>Felicity Cox</td>
</tr>
<tr>
<td><a href="mailto:felicity.cox@mq.edu.au">felicity.cox@mq.edu.au</a></td>
<td></td>
</tr>
<tr>
<td><strong>Contact via <a href="mailto:felicity.cox@mq.edu.au">felicity.cox@mq.edu.au</a></strong></td>
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<td></td>
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<tr>
<td><strong>Lecturer</strong></td>
<td>Michael Proctor</td>
</tr>
<tr>
<td><a href="mailto:michael.proctor@mq.edu.au">michael.proctor@mq.edu.au</a></td>
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<tr>
<td><strong>Convenor</strong></td>
<td>Anita Szakay</td>
</tr>
<tr>
<td><a href="mailto:anita.szakay@mq.edu.au">anita.szakay@mq.edu.au</a></td>
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<tr>
<td><strong>Lecturer</strong></td>
<td>Titia Benders</td>
</tr>
<tr>
<td><a href="mailto:titia.benders@mq.edu.au">titia.benders@mq.edu.au</a></td>
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<tr>
<td></td>
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<tr>
<td><strong>Credit points</strong></td>
<td>3</td>
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</tbody>
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<table>
<thead>
<tr>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>39cp including (6cp from LING units at 200 level including (LING210(P) or LING217(P))) or admission to GDipSphComm or DipSphComm</td>
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<table>
<thead>
<tr>
<th>Corequisites</th>
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<table>
<thead>
<tr>
<th>Co-badged status</th>
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<table>
<thead>
<tr>
<th>Unit description</th>
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<tbody>
<tr>
<td>The objectives of this unit are to foster a detailed understanding of the anatomy of the speech production mechanism and the complexities of speech physiology. Examination of research techniques used in physiological investigation form an integral part of the content and assessment. The unit consists of a combination of lectures, tutorials and workshops. Topics covered in the lectures include: respiratory physiology and anatomy; laryngeal anatomy; phonation; articulatory anatomy and physiology; articulatory investigative techniques; and the neuroanatomy and neurophysiology of speech and language. Workshop topics include: speech breathing; electroglottography; kinematic investigations; electropalatography; and nasality.</td>
</tr>
</tbody>
</table>
Important Academic Dates
Information about important academic dates including deadlines for withdrawing from units are available at http://students.mq.edu.au/student_admin/enrolmentguide/academicdates/

Learning Outcomes
1. Demonstrate understanding of respiratory anatomy and mechanics
2. Observe and discuss the processes involved in breathing for speech and breathing for life
3. Demonstrate advanced knowledge of laryngeal anatomy and phonatory physiology
4. Identify the various structures associated with articulatory anatomy and physiology and demonstrate an understanding of how these are employed in speech production
5. Demonstrate an understanding of neuroanatomy and neurophysiology of speech and language
6. Analyse and report on speech data collected via speech physiology instrumentation to engage with theoretical issues in phonetics
7. Describe important aspects of embryology and genetics in relation to human speech processing

General Assessment Information
It is a requirement of this unit that students complete all assessment tasks. Failure to complete all assessment tasks may result in failure in the whole unit even if the marks on the completed tasks total more than 50%.

Assessment Tasks

<table>
<thead>
<tr>
<th>Name</th>
<th>Weighting</th>
<th>Due</th>
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<tbody>
<tr>
<td>Assessment 1</td>
<td>10%</td>
<td>Week 4</td>
</tr>
<tr>
<td>Assessment 2</td>
<td>25%</td>
<td>Week 7</td>
</tr>
<tr>
<td>Assessment 3</td>
<td>25%</td>
<td>Week 11</td>
</tr>
<tr>
<td>Assessment 4</td>
<td>40%</td>
<td>Exam Period</td>
</tr>
</tbody>
</table>

Assessment 1
Due: Week 4
Weighting: 10%
The online test will be a 30 minute test accessible from iLearn. Questions will be a mixture of short answer question and multiple choice.

This Assessment Task relates to the following Learning Outcomes:
- Demonstrate understanding of respiratory anatomy and mechanics
- Observe and discuss the processes involved in breathing for speech and breathing for life

Assessment 2
Due: Week 7
Weighting: 25%

Students will write up a research report based on provided speech physiology data. Further details will be provided in the unit iLearn pages.

This Assessment Task relates to the following Learning Outcomes:
- Demonstrate advanced knowledge of laryngeal anatomy and phonatory physiology
- Analyse and report on speech data collected via speech physiology instrumentation to engage with theoretical issues in phonetics

Assessment 3
Due: Week 11
Weighting: 25%

Students will write up a research report based on speech physiology data. Further details will be provided in the unit iLearn pages.

This Assessment Task relates to the following Learning Outcomes:
- Identify the various structures associated with articulatory anatomy and physiology and demonstrate an understanding of how these are employed in speech production
- Analyse and report on speech data collected via speech physiology instrumentation to engage with theoretical issues in phonetics

Assessment 4
Due: Exam Period
Weighting: 40%

The final examination will be a 1.5 hour exam and will consist of questions selected from a pre-advertised set of about 12 questions. The question set will be made available at the start of the semester. In the final exam, 6 of the questions will be selected and students will be expected to
answer 4  (a little over 20 minutes for each question, on average). The rationale for the exam is to give students the opportunity to explore a range of topics of their choice in depth prior to the exam and to demonstrate their understanding of these topics under exam conditions. This allows students a certain degree of autonomy in managing their learning but also ensures breadth of unit content coverage.

This Assessment Task relates to the following Learning Outcomes:

- Demonstrate understanding of respiratory anatomy and mechanics
- Observe and discuss the processes involved in breathing for speech and breathing for life
- Demonstrate advanced knowledge of laryngeal anatomy and phonatory physiology
- Identify the various structures associated with articulatory anatomy and physiology and demonstrate an understanding of how these are employed in speech production
- Demonstrate an understanding of neuroanatomy and neurophysiology of speech and language
- Analyse and report on speech data collected via speech physiology instrumentation to engage with theoretical issues in phonetics
- Describe important aspects of embryology and genetics in relation to human speech processing

Delivery and Resources

UNIT DESCRIPTION AND RATIONALE

The objectives of this unit are to foster a detailed understanding of the anatomy of the speech production mechanism and the complexities of speech physiology. Examination of research techniques used in physiological investigation form an integral part of the content and assessment. The unit consists of a combination of lectures, tutorials and workshops. Topics covered in the lectures include: respiratory physiology and anatomy; laryngeal anatomy; phonation; articulatory anatomy and physiology; articulatory investigative techniques; neuroanatomy and neurophysiology; and embryology and genetics related to the processing of speech. Workshop topics include: speech breathing; laryngography; kinematic investigations; electropalatography; ultrasound, airflow and nasality.

The unit provides students with essential theoretical and practical skills that are fundamental to further study of speech and which assist clinicians in keeping abreast of current research findings in speech and hearing.

DELIVERY AND RESOURCES

The learning and teaching strategies used in this Unit are structured around an extensive set of interactive text, image and audio based online materials as well as lecture presentation (including ECHO360 and associated Powerpoint presentations) and workshop participation. The unit website contains details of the timetable of topics with links to the relevant materials. It is
Unit Schedule

<table>
<thead>
<tr>
<th>WEEK</th>
<th>LECTURES</th>
<th>ASSESSMENTS / EXTERNALS / NOTES</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Respiratory Anatomy and Physiology</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Laryngeal Anatomy</td>
<td></td>
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<tr>
<td>3</td>
<td>Laryngeal Physiology and Phonation</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Phonation</td>
<td>Respiration online test (15%)</td>
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<tr>
<td>5</td>
<td>Articulatory Anatomy and Physiology</td>
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<tr>
<td>6</td>
<td>Articulatory Anatomy and Physiology</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Articulatory Anatomy and Physiology</td>
<td>Report due (20%)</td>
</tr>
<tr>
<td></td>
<td>MID SEMESTER BREAK</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Articulatory Anatomy and Physiology</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Articulatory Anatomy and Physiology</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>Neuroanatomy and Neurophysiology</td>
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</table>

reproduced below. Interaction with ilearn discussion facility is expected. Students **MUST** use ilearn to access important content and messages.
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:


In addition, a number of other policies can be found in the [Learning and Teaching Category](http://mq.edu.au/policy/docs/) 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).
4c. Assignment Submission

Internal Students

Unless you are explicitly informed otherwise for a specific assignment, all assignments must be submitted in hardcopy to the assignment box Student Administration Centre Level 3 C3A.

For each assignment, students MUST fill in and include the cover sheet provided on the Linguistics web site. Assignments will not be accepted unless they have the cover sheet.

http://www.ling.mq.edu.au/support/resources.htm

External Students

External students have the option of submitting assignments as an e-mail attachment to:

ling.assignments@mq.edu.au

If you submit electronically you will receive a return email indicating receipt.

Please do NOT submit the assignment by email to the unit convenor unless specifically instructed to do so by the convenor.

For each assignment, you MUST:

- submit the assignment in Word or pdf format with embedded fonts
- fill in and include the cover sheet provided on the Linguistics web site:
  http://www.ling.mq.edu.au/support/resources.htm
- add a footer to each page of the assignment, with page numbering, your name and student number, and “SPH399” clearly marked
- use the appropriate subject heading for the email (see below)
- use the appropriate file name for the attachments (see below)
- type double-spaced

Assignments will not be accepted unless they have both the cover sheet and the footer.

Assignments submitted electronically may be marked in hardcopy and returned by ordinary mail. Please submit assignments one time only unless specifically requested.

Email subject headers

When emailing assignments, please use subject headings such as: SPH308 ass1 or SPH308 ass2. Please also ensure that your full name and student number appear in the body of the email message.

Naming files

Assignments submitted electronically must use the format explained below for naming attached files. If Noam Chomsky is submitting assignment one, the file should be named: “chomsky_n_308_1”. If Paulo Freire is submitting assignment two, the file should be named:
“freire_p_308_2”. Coversheets must also be submitted with your name and assignment number “chomsky_n_308_1coversheet”

4d. Return of Marked Assignments

Students’ marked assignments will, in general, be returned to them within 3 weeks of submission. Please note that assignments cannot be accepted after the return of marked materials.

4e. Writing and Communication Skills Support

The Linguistics Department also offers undergraduate units in professional and academic communication: Academic Communication in the Social Sciences and Humanities (ACSH100) and Academic Communication in Science (ACSC100). These units are designed to help students from non English speaking backgrounds to perform to a high standard in their other subjects. http://www.ling.mq.edu.au/undergraduate/index.htm

4f. Student Support Services

Macquarie University provides a range of Academic Student Support Services. Details of these services can be accessed at http://www.student.mq.edu.au

There is a range of other resources available for Macquarie students, including:

- electronic access to a variety of book chapters and journal articles
- electronic access to journals

5. POLICIES

5a. University Policy on Grading

Academic Senate has a set of guidelines on the distribution of grades across the range from fail to high distinction. Your final result will include one of these grades plus a standardised numerical grade (SNG).

The following descriptions apply to assessment grades:

HD (85-100) High Distinction: denotes performance which meets all unit objectives in such an exceptional way and with such marked excellence that it deserves the highest level of recognition. D (75-84) Distinction: denotes performance which clearly deserves a very high level of recognition as an excellent achievement in the unit.

Cr (65-74) Credit: denotes performance which is substantially better than would normally be expected of competent students in the unit.

P (50-64) Pass: denotes performance which satisfies unit objectives.

F (0-49) Fail: denotes that a candidate has failed to complete a unit satisfactorily.
Please note that the above grades and descriptions apply to undergraduate degrees, postgraduate coursework degrees, diploma and graduate certificate programs.

Marks assigned in assignments are \textit{raw marks}. These are subsequently converted into Standard Numerical Grades (SNG) in order to determine letter grades for the unit. On occasion the SNG which you receive may not be the same as the total of your marks for each assessment item. Results may be scaled to ensure that there is a degree of comparability across the various offerings of this unit. The process of scaling does not change the order of marks among students.

For an explanation of the university-wide assessment policy see http://www.mq.edu.au/policy/docs/grading/policy.html

\textbf{5b. Academic Honesty}

Academic honesty is considered to be extremely serious by the Department of Linguistics and the University. Students who submit material that is not their own work will receive zero marks for the offending assessment task. All assignments are scanned on a database and compared with other assignments (past and present) and with content on the internet. Students found guilty of academic dishonesty may receive a fail for the unit in line with serious breaches of academic dishonesty may result in failure of the unit or in extreme cases suspension or expulsion from the university

Please refer to the Linguistics Department’s policy on plagiarism at http://www.ling.mq.edu.au/support/policies_plagiarism.htm and to Macquarie University’s policy on Academic Honesty at \url{http://www.mq.edu.au/policy/docs/academic_honesty/policy.html}. It is expected that you will be familiar with the department’s policy before you begin work on the assignments.

Examples of dishonest academic behaviours are:

\begin{description}[noitemsep]
\item[Plagiarism]: Using the work or ideas of another person and presenting this as your own without clear acknowledgement of the source of the work or ideas. This includes, but is not limited to, any of the following acts: a) copying out part(s) of any document or audio-visual material or computer code or website content without indicating their origins b) using or extracting another person’s concepts, experimental results, or conclusions c) summarising another person’s work d) submitting substantially the same final version of any material as another student in an assignment where there was collaborative preparatory work e) use of others (paid or otherwise) to conceive, research or write material submitted for assessment f) submitting the same or substantially the same piece of work for two different tasks (self-plagiarism).
\item[Deception]: includes, but is not limited to, false indication of group contribution, false indication of assignment submission, collusion, submission of a work previously submitted, creating a new article out of an existing article by rewriting/reusing it, using the same data to form the same arguments and conclusion, presenting collaborative work as one’s own without acknowledging others’ contributions, cheating in an examination or using others to write material for examination.
\item[Fabrication]: includes, but is not limited to, creating fictitious clinical data, citation(s), or referee reports.
\end{description}
Sabotage: includes, but is not limited to, theft of work, destruction of library materials.

5c. Appeals Against Grades

If a student has a problem with the mark given for a particular assessment, the student should first speak with the marker to discuss the matter. If difficulties and differences continue, a student can apply for a remark of an assessment by contacting the Unit Convenor/s directly. A fresh, unmarked copy of the assignment will need to be submitted for the new marker. The request for a remark must be lodged within two weeks of the date of receipt of the assessment.

The Unit Convenor/s will arrange for the assignment to be marked by another relevant staff member teaching that Unit and the assignment will be returned to the student via the Linguistics Undergraduate/Postgraduate Office. The final mark will be an agreed mark by the first and second marker and the Unit Convenor. The final mark can be sustained, raised or lowered.

If a student wishes to appeal against a final grade for a unit, then the student should see the Unit Convenor first. However, formal appeal must be lodged with the Head of Division by the date stipulated on the Handbook of Undergraduate/Postgraduate Studies. Failure to follow these procedures is likely to result in a request/appeal being disallowed.

5d. Student Email Account

All Macquarie students have been issued with a University email account.

It is University policy that the University issued email account will be used for official University communication. All students are required to access their University account frequently. Email can be automatically forwarded from your Macquarie account to another account but each student is responsible for the information sent to a non-Macquarie account and for managing mailbox size to ensure that account remains active.

- You must check your Macquarie email account

- Messages sent to all students in your unit by the Unit Convenor will only be sent to your University email account.

- Your Macquarie email account can be accessed via the portal, myMQ at https://my.mq.edu.au

- To Sign On to the portal use your Student Number, and your original MQID password (i.e., 2 random characters followed by your date of birth in ddmmyy format).

- Your Email Address can be viewed in portal.

- The student email format will be first.last@students.mq.edu.au e.g., jan.block@students.mq.edu.au (any other students also named Jan Block will be jan.block1@students.mq.edu.au, jan.block2@students.mq.edu.au, etc.)

Student Support

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

Discipline Specific Knowledge and Skills

Our graduates will take with them the intellectual development, depth and breadth of knowledge, scholarly understanding, and specific subject content in their chosen fields to make them competent and confident in their subject or profession. They will be able to demonstrate, where relevant, professional technical competence and meet professional standards. They will be able to articulate the structure of knowledge of their discipline, be able to adapt discipline-specific knowledge to novel situations, and be able to contribute from their discipline to inter-disciplinary solutions to problems.

This graduate capability is supported by:

Learning outcomes

• Demonstrate understanding of respiratory anatomy and mechanics
• Observe and discuss the processes involved in breathing for speech and breathing for life
• Demonstrate advanced knowledge of laryngeal anatomy and phonatory physiology
• Identify the various structures associated with articulatory anatomy and physiology and demonstrate an understanding of how these are employed in speech production
• Demonstrate an understanding of neuroanatomy and neurophysiology of speech and language
• Analyse and report on speech data collected via speech physiology instrumentation to engage with theoretical issues in phonetics
• Describe important aspects of embryology and genetics in relation to human speech processing

Assessment tasks

• Assessment 1
• Assessment 2
• Assessment 3
• Assessment 4

Problem Solving and Research Capability

Our graduates should be capable of researching; of analysing, and interpreting and assessing data and information in various forms; of drawing connections across fields of knowledge; and they should be able to relate their knowledge to complex situations at work or in the world, in order to diagnose and solve problems. We want them to have the confidence to take the initiative in doing so, within an awareness of their own limitations.

This graduate capability is supported by:

Learning outcomes

• Demonstrate understanding of respiratory anatomy and mechanics
• Observe and discuss the processes involved in breathing for speech and breathing for life
• Demonstrate advanced knowledge of laryngeal anatomy and phonatory physiology
• Identify the various structures associated with articulatory anatomy and physiology and demonstrate an understanding of how these are employed in speech production
• Demonstrate an understanding of neuroanatomy and neurophysiology of speech and language
• Analyse and report on speech data collected via speech physiology instrumentation to engage with theoretical issues in phonetics

Assessment tasks

• Assessment 2
• Assessment 3
Effective Communication

We want to develop in our students the ability to communicate and convey their views in forms effective with different audiences. We want our graduates to take with them the capability to read, listen, question, gather and evaluate information resources in a variety of formats, assess, write clearly, speak effectively, and to use visual communication and communication technologies as appropriate.

This graduate capability is supported by:

**Assessment tasks**

- Assessment 2
- Assessment 3
- Assessment 4

Capable of Professional and Personal Judgement and Initiative

We want our graduates to have emotional intelligence and sound interpersonal skills and to demonstrate discernment and common sense in their professional and personal judgement. They will exercise initiative as needed. They will be capable of risk assessment, and be able to handle ambiguity and complexity, enabling them to be adaptable in diverse and changing environments.

This graduate capability is supported by:

**Assessment tasks**

- Assessment 2
- Assessment 3

Critical, Analytical and Integrative Thinking

We want our graduates to be capable of reasoning, questioning and analysing, and to integrate and synthesise learning and knowledge from a range of sources and environments; to be able to critique constraints, assumptions and limitations; to be able to think independently and systemically in relation to scholarly activity, in the workplace, and in the world. We want them to have a level of scientific and information technology literacy.

This graduate capability is supported by:

**Learning outcomes**

- Demonstrate understanding of respiratory anatomy and mechanics
- Observe and discuss the processes involved in breathing for speech and breathing for life
- Demonstrate advanced knowledge of laryngeal anatomy and phonatory physiology
Unit guide SPH 308 Speech Physiology

- Identify the various structures associated with articulatory anatomy and physiology and demonstrate an understanding of how these are employed in speech production
- Demonstrate an understanding of neuroanatomy and neurophysiology of speech and language
- Analyse and report on speech data collected via speech physiology instrumentation to engage with theoretical issues in phonetics
- Describe important aspects of embryology and genetics in relation to human speech processing

Assessment tasks

- Assessment 2
- Assessment 3
- Assessment 4

Creative and Innovative

Our graduates will also be capable of creative thinking and of creating knowledge. They will be imaginative and open to experience and capable of innovation at work and in the community. We want them to be engaged in applying their critical, creative thinking.

This graduate capability is supported by:

Assessment task

- Assessment 3