



# SPHL702

## Advanced Topics in Speech Production

S1 Day 2015

*Dept of Linguistics*

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## General Information

Unit convenor and teaching staff

Felicity Cox

[felicity.cox@mq.edu.au](mailto:felicity.cox@mq.edu.au)

Margaret Wood

[margaret.wood@mq.edu.au](mailto:margaret.wood@mq.edu.au)

Credit points

4

Prerequisites

Admission to MRes and (LING398 or SPHL701)

Corequisites

Co-badged status

Unit description

An advanced understanding of the speech production mechanism is integral to all aspects of phonetic and phonological theory. In this unit students will explore complex theoretical issues in speech production via a program of targeted readings, the collection, analysis and interpretation of complex data from a range of sources which may include electropalatography, electroarticulography, ultrasound, electrolaryngography, or oral/nasal airflow.

## 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:

- acquire coherent and advanced knowledge of principles and concepts of articulatory phonetics and phonology
- think critically and make informed and logical judgments regarding the existing body of literature in select areas of articulatory phonetics and phonology to arrive at reasoned and meaningful arguments and positions enabling ideas to be applied to novel contexts
- explain various processes and methodologies that are integral to advanced research in articulatory phonetics and phonology

demonstrate the ability to apply accumulated knowledge and skills in the context of scholarship in articulatory phonetics and phonology

develop a high level of oral, written, and technical communication skills in the area of articulatory phonetics and phonology

## Assessment Tasks

Name	Weighting	Due
<u>Literature Review</u>	20%	Week 5
<u>Practical assignment</u>	40%	Week 8
<u>Summative assessment task</u>	40%	Week 13

### Literature Review

Due: **Week 5**

Weighting: **20%**

Literature review of a selected advanced theoretical issue in speech production, for example:

- critical appraisal of current research on phonetic use of laryngeal states in language
- examine evidence from research literature for listener–speaker alignment in speech breathing
- discuss inconsistencies in the reported physiological correlates vocal fry or creaky voice in the literature
- critical review of literature on the phonetic and psychological correlates of atoms of phonological contrast in a chosen domain

On successful completion you will be able to:

- acquire coherent and advanced knowledge of principles and concepts of articulatory phonetics and phonology
- think critically and make informed and logical judgments regarding the existing body of literature in select areas of articulatory phonetics and phonology to arrive at reasoned and meaningful arguments and positions enabling ideas to be applied to novel contexts
- explain various processes and methodologies that are integral to advanced research in articulatory phonetics and phonology
- develop a high level of oral, written, and technical communication skills in the area of articulatory phonetics and phonology

## Practical assignment

Due: **Week 8**

Weighting: **40%**

Demonstration of practical disciplinary skills involving advanced analysis of research data from a source relevant to student's research interests, e.g., real-time MRI (rtMRI), x-ray microbeam (XRMB), electropalatography (EPG), electromagnetic articulography (EMA), ultrasound (US), electroglottography (EGG) or oral/nasal airflow

On successful completion you will be able to:

- acquire coherent and advanced knowledge of principles and concepts of articulatory phonetics and phonology
- explain various processes and methodologies that are integral to advanced research in articulatory phonetics and phonology
- demonstrate the ability to apply accumulated knowledge and skills in the context of scholarship in articulatory phonetics and phonology
- develop a high level of oral, written, and technical communication skills in the area of articulatory phonetics and phonology

## Summative assessment task

Due: **Week 13**

Weighting: **40%**

Mini project OR advanced readings + annotated bibliography on a selected topic in speech physiology (different from the 20% literature review assessment)

On successful completion you will be able to:

- acquire coherent and advanced knowledge of principles and concepts of articulatory phonetics and phonology
- think critically and make informed and logical judgments regarding the existing body of literature in select areas of articulatory phonetics and phonology to arrive at reasoned and meaningful arguments and positions enabling ideas to be applied to novel contexts
- explain various processes and methodologies that are integral to advanced research in articulatory phonetics and phonology
- demonstrate the ability to apply accumulated knowledge and skills in the context of scholarship in articulatory phonetics and phonology
- develop a high level of oral, written, and technical communication skills in the area of articulatory phonetics and phonology

## Delivery and Resources

Students will engage in a program of advanced structured readings, in parallel with practical laboratory experiences and instruction in advanced analysis and interpretation of complex research data from a range of sources which may include: real-time MRI, x-ray microbeam, palatography, electromagnetic articulography, ultrasound, electrolaryngography, and oral/nasal airflow. The skills and concepts developed throughout this unit are necessary for the further work at PhD level in speech physiology, articulatory phonetics, and phonology.

## Unit Schedule

18 hrs: Engaging with literature, data and analysis, through directed readings, literature review, laboratory work, development and use of software, and practical experiences with instrumental techniques including data analysis.

8 hrs: Seminar in speech production - attendance at selected laboratory meetings dedicated to scholarship in phonetics and phonology

100 hrs: Assessment tasks as indicated

52 hrs: Class preparation (readings and problem solving tasks)

## 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.html>

Grading Policy <http://mq.edu.au/policy/docs/grading/policy.html>

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

Grievance Management Policy [http://mq.edu.au/policy/docs/grievance\\_management/policy.html](http://mq.edu.au/policy/docs/grievance_management/policy.html)

Disruption to Studies Policy [http://www.mq.edu.au/policy/docs/disruption\\_studies/policy.html](http://www.mq.edu.au/policy/docs/disruption_studies/policy.html) *The Disruption to Studies Policy is effective from March 3 2014 and replaces the Special Consideration Policy.*

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](#).

## 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://informatics.mq.edu.au/help/>.

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

## Graduate Capabilities

### PG - Capable of Professional and Personal Judgment and Initiative

Our postgraduates will demonstrate a high standard of discernment and common sense in their professional and personal judgment. They will have the ability to make informed choices and decisions that reflect both the nature of their professional work and their personal perspectives.

This graduate capability is supported by:

### Learning outcomes

- think critically and make informed and logical judgments regarding the existing body of literature in select areas of articulatory phonetics and phonology to arrive at reasoned and meaningful arguments and positions enabling ideas to be applied to novel contexts

- explain various processes and methodologies that are integral to advanced research in articulatory phonetics and phonology
- demonstrate the ability to apply accumulated knowledge and skills in the context of scholarship in articulatory phonetics and phonology
- develop a high level of oral, written, and technical communication skills in the area of articulatory phonetics and phonology

### **Assessment task**

- Practical assignment

## **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**

- acquire coherent and advanced knowledge of principles and concepts of articulatory phonetics and phonology
- think critically and make informed and logical judgments regarding the existing body of literature in select areas of articulatory phonetics and phonology to arrive at reasoned and meaningful arguments and positions enabling ideas to be applied to novel contexts
- explain various processes and methodologies that are integral to advanced research in articulatory phonetics and phonology
- demonstrate the ability to apply accumulated knowledge and skills in the context of scholarship in articulatory phonetics and phonology
- develop a high level of oral, written, and technical communication skills in the area of articulatory phonetics and phonology

### **Assessment tasks**

- Literature Review
- Practical assignment
- Summative assessment task

## **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**

- acquire coherent and advanced knowledge of principles and concepts of articulatory phonetics and phonology
- think critically and make informed and logical judgments regarding the existing body of literature in select areas of articulatory phonetics and phonology to arrive at reasoned and meaningful arguments and positions enabling ideas to be applied to novel contexts
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### **Assessment tasks**

- Literature Review
- Practical assignment
- Summative assessment task

## **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**

- acquire coherent and advanced knowledge of principles and concepts of articulatory phonetics and phonology
- explain various processes and methodologies that are integral to advanced research in articulatory phonetics and phonology
- demonstrate the ability to apply accumulated knowledge and skills in the context of scholarship in articulatory phonetics and phonology

### **Assessment tasks**

- Practical assignment



- Summative assessment task

## PG - Effective Communication

Our postgraduates will be able to communicate effectively and convey their views to different social, cultural, and professional audiences. They will be able to use a variety of technologically supported media to communicate with empathy using a range of written, spoken or visual formats.

This graduate capability is supported by:

### Learning outcomes

- think critically and make informed and logical judgments regarding the existing body of literature in select areas of articulatory phonetics and phonology to arrive at reasoned and meaningful arguments and positions enabling ideas to be applied to novel contexts
- explain various processes and methodologies that are integral to advanced research in articulatory phonetics and phonology
- develop a high level of oral, written, and technical communication skills in the area of articulatory phonetics and phonology

### Assessment tasks

- Literature Review
- Practical assignment
- Summative assessment task

## PG - Engaged and Responsible, Active and Ethical Citizens

Our postgraduates will be ethically aware and capable of confident transformative action in relation to their professional responsibilities and the wider community. They will have a sense of connectedness with others and country and have a sense of mutual obligation. They will be able to appreciate the impact of their professional roles for social justice and inclusion related to national and global issues

This graduate capability is supported by:

### Learning outcomes

- think critically and make informed and logical judgments regarding the existing body of literature in select areas of articulatory phonetics and phonology to arrive at reasoned and meaningful arguments and positions enabling ideas to be applied to novel contexts
- explain various processes and methodologies that are integral to advanced research in articulatory phonetics and phonology
- develop a high level of oral, written, and technical communication skills in the area of articulatory phonetics and phonology