



**FACULTY OF HEALTH SCIENCES AND SPORTS**  
**BACHELOR OF SCIENCE IN SPEECH-LANGUAGE THERAPY**  
**LEARNING MODULE OUTLINE**

Academic Year	2025/2026	Semester	1
Module Code	STIS1101		
Learning Module	Introduction to Speech and Hearing Sciences		
Pre-requisite(s)	Nil		
Medium of Instruction	Chinese/ English		
Credits	3	Contact Hours	45
Instructor	CHU-HSIU TENG Associate Professor YU-SYUAN JHANG Assistant Professor	Email	(TENG) chteng@csmu.edu.tw (JHANG) yjhang@csmu.edu.tw
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**MODULE DESCRIPTION**

**Hearing and Speech Sciences** is a fundamental course essential for those entering the field of audiology and speech-language pathology. The course is divided into two main units, covering the basic sciences of hearing and speech, and serves as an introductory subject in the field.

**Unit One** focuses on understanding the nature of sound, the auditory system, an introduction to basic audiology, methods for assessing the auditory system, auditory system disorders, assistive listening devices, and auditory rehabilitation, along with information processing systems. This unit comprises 23 instructional hours.

**Unit Two** introduces the systems involved in the speech production process, covering the five major speech systems: the nervous system, respiration, phonation, resonance, and articulation. Through assigned textbook readings, multimedia lecture materials, and in-class instruction, students will gain a comprehensive understanding of the physiological structures, related disorders, and potential causes of speech/language impairments. This unit comprises 22 instructional hours.



### MODULE INTENDED LEARNING OUTCOMES (ILOS)

On completion of this learning module, students will be able to:

M1.	Describe key figures, developments, and issues in the field of audiology.
M2.	Understand the nature of sound.
M3.	Briefly explain the auditory system and its disorders.
M4.	Explain the principles and procedures of various auditory tests.
M5.	Describe the components and methods of hearing management.
M6.	Empathize with the experiences of individuals with hearing loss.
M7.	Be willing to dedicate oneself to serving individuals with hearing loss.
M8.	Understand the speech production process, related disorders, and impairments.
M9.	Learn about the neural systems involved in speech production, associated diseases, and speech disorders.
M10.	Learn about the respiratory structures for speech, measurement methods, and speech disorders caused by related clinical conditions.
M11.	Learn about the phonatory system structures, physiological mechanisms, and clinical voice disorders.
M12.	Learn about the structures of the resonance system and resonance disorders.
M13.	Learn about the articulatory system, classification of Mandarin phonemes, related diseases, and articulation disorders.

These ILOs aims to enable students to attain the following Programme Intended Learning Outcomes (PILOs):

PILOs	M1	M2	M3	M4	M5	M6	M7
P1. To demonstrate understanding of knowledge in behavioural sciences, speech and hearing sciences, as well as speech and hearing disorders	✓	✓					
P2. To demonstrate understanding of knowledge in assessment, treatment, counselling and other professional knowledge related to speech, language and swallowing impairment			✓				
P3. To employ professional techniques in assessment and intervention in language, speech and swallowing disorders				✓			
P4. To demonstrate effective communication and teamwork skills					✓		
P5. To demonstrate a high standard of professional ethics and attitudes of holistic care, respect and compassion						✓	✓
P6. To recognise the international trend of speech and hearing disorders and develop the spirits of social involvement and lifelong learning	✓						✓



PILOs	M8	M9	M10	M11	M12	M13
P1. To demonstrate understanding of knowledge in behavioural sciences, speech and hearing sciences, as well as speech and hearing disorders	✓	✓	✓	✓	✓	✓
P2. To demonstrate understanding of knowledge in assessment, treatment, counselling and other professional knowledge related to speech, language and swallowing impairment		✓	✓	✓	✓	✓
P3. To employ professional techniques in assessment and intervention in language, speech and swallowing disorders		✓	✓	✓	✓	✓
P4. To demonstrate effective communication and teamwork skills						
P5. To demonstrate a high standard of professional ethics and attitudes of holistic care, respect and compassion						
P6. To recognise the international trend of speech and hearing disorders and develop the spirits of social involvement and lifelong learning						

#### MODULE SCHEDULE, COVERAGE AND STUDY LOAD

##### YU-SYUAN JHANG Assistant Professor (22Contact Hours) :

Week	Content Coverage	Contact Hours
1	The meaning and essence of communication	2
2	The nature and development of language	2
3	The respiratory system	3
4	The phonatory system	3
5	The articulatory system	3
6	Hearing and speech disorders in specific populations	6
7	Integrated discussion	2
8	Midterm exam	1

##### CHU-HSIU TENG Associate Professor (23 Contact Hours) :

Week	Content Coverage	Contact Hours
1	Introduction to hearing science course	0.5
2	Basic understanding of hearing science	1
3	The nature of sound	3.5



4	The auditory system and related disorders	4
5	Basic audiometric testing	4
6	Pediatric auditory assessment	2
7	Application of hearing devices	2
8	Auditory rehabilitation	3
9	Integrated discussion	2
10	Final exam	1

### TEACHING AND LEARNING ACTIVITIES

In this learning module, students will work towards attaining the ILOs through the following teaching and learning activities:

Teaching and Learning Activities	M 1	M 2	M 3	M 4	M 5	M 6	M 7	M 8	M 9	M 10	M 11	M 12	M 13
T1. Chapter preview and group discussion	✓	✓	✓	✓	✓			✓	✓	✓	✓	✓	✓
T2. Classroom instruction	✓	✓	✓	✓	✓			✓	✓	✓	✓	✓	✓
T3. Online resource search							✓						✓
T4. Case presentation and discussion			✓	✓	✓	✓							
T5. Cooperative learning						✓	✓	✓	✓				✓

### ATTENDANCE

Attendance requirements are governed by the Academic Regulations Governing Bachelor's Degree Programmes of the Macao Polytechnic University. Students who do not meet the attendance requirements for the learning module shall be awarded an 'F' grade.

### ASSESSMENT

In this learning module, students are required to complete the following assessment activities:

Assessment Activities	Weighting (%)	ILOs to be Assessed
A1. Class participation	20	M1-M13
A2. Midterm exam ( <b>JHANG</b> )	40	M8-M13
A3. Final exam ( <b>TENG</b> )	40	M1-M7

This learning module is graded on a 100 point scale, with 100 being the highest possible score and 50 being the passing score.



Any students scoring less than 35% of the total mark in the final examination will be given an “F” grade for the module even if the overall grade is 50% or higher.

The assessment will be conducted following the University’s Assessment Strategy (see [www.mpu.edu.mo/teaching\\_learning/en/assessment\\_strategy.php](http://www.mpu.edu.mo/teaching_learning/en/assessment_strategy.php)). Passing this learning module indicates that students will have attained the ILOs of this learning module and thus acquired its credits.

#### MARKING SCHEME

Letter Grade	Grade Definition	Mark Ranges
A	Excellent	93-100
A-		88-92
B+	Very Good	83-87
B	Good	78-82
B-		73-77
C+	Satisfactory	68-72
C		63-67
C-		58-62
D+	Pass	53-57
D		50-52
F	Fail	0-49

#### REQUIRED READINGS

彭書韻等(2021)(譯)。言語科學: 理論與臨床應用(第二版)。台北: 心理。

劉俊榮、周皆君、蕭純聿、樊家欣(2017)。聽力學(第十二版)。台北：雙葉書廊。

- 蔡怡汝、陳淑華(2019)(譯)。言語、吞嚥及聽覺解剖學圖譜(第三版)。ISBN：9789869743273

#### REFERENCES

陳小娟等(2018)。聽覺障礙。台北: 華騰文化。

#### STUDENT FEEDBACK

At the end of every semester, students are invited to provide feedback on the learning module and the teaching arrangement through questionnaires. Your feedback is valuable for instructors to enhance the module and its delivery for future students. The instructor and programme coordinators will consider all feedback and respond with actions formally in the annual programme review.

#### ACADEMIC INTEGRITY

The Macao Polytechnic University requires students to have full commitment to academic integrity when engaging in research and academic activities. Violations of academic integrity, which include but are not limited to plagiarism, collusion, fabrication or falsification, repeated use of assignments and cheating in examinations, are considered as serious academic offenses and may lead to disciplinary actions. Students should read the relevant regulations and guidelines in the Student Handbook which is distributed upon the admission into the University, a copy of which can also be found at [www.mpu.edu.mo/student\\_handbook/](http://www.mpu.edu.mo/student_handbook/).