

## **REGULATIONS FOR THE DEGREE OF MASTER OF SCIENCE IN AUDIOLOGY (MSc[Audiology])**

*(See also General Regulations)*

Any publication based on work approved for a higher degree should contain a reference to the effect that the work was submitted to the University of Hong Kong for the award of the degree.

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### **Ed91 Admission requirements**

To be eligible for admission to the courses leading to the degree of Master of Science in Audiology, candidates shall

- (a) comply with the General Regulations;
  - (b) hold
    - (i) either a Bachelor's degree with honours of this University preferably with a major in psychology, linguistics, physics or speech and hearing sciences; or
    - (ii) from another university or comparable institution accepted for this purpose; and
  - (c) satisfy the examiners in a qualifying examination, if required.
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### **Ed92 Qualifying examination**

- (a) A qualifying examination may be set to test the candidates' formal academic ability or their ability to follow the courses of study prescribed. It shall consist of one or more written papers or their equivalent and may include a project report.
  - (b) Candidates who are required to satisfy the examiners in a qualifying examination shall not be permitted to register until they have satisfied the examiners in the examination.
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### **Ed93 Award of degree**

To be eligible for the award of the degree of Master of Science in Audiology, candidates shall

- (a) comply with the General Regulations; and
  - (b) complete the curriculum and satisfy the examiners in accordance with the regulations set out below.
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### **Ed94 Length of curriculum**

The curriculum shall extend over two academic years of full-time study. Each year of study shall consist of two semesters.

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### **Ed 95 Completion of curriculum**

To complete the curriculum, candidates shall

- (a) follow instruction on the syllabuses prescribed and complete all specified work as required (including clinical practicum);
- (b) satisfy the examiners in all forms of assessment as may be required;
- (c) complete and present one satisfactory case study; and
- (d) complete and present a satisfactory dissertation on an approved subject.

Candidates shall be required to pass all written assignments and examinations and practical work required in the first year before progressing to the second year.

**Ed96 Dissertation**

- (a) The title of the dissertation shall be submitted for approval not later than March 1 of the first academic year and the final dissertation shall be submitted not later than April 30 in the final year of study.
  - (b) Candidates shall submit a statement that the dissertation represents their own work undertaken after registration as a candidate for the degree.
  - (c) The examiners also may prescribe an oral examination on the subject of the dissertation.
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**Ed97 Examinations**

- (a) An assessment of the candidates' performance during the year, may include written assignments, tests, laboratory and practical work as prescribed by the course.
  - (b) Candidates who have failed to satisfy the examiners in any part of the examinations at the first attempt may be permitted to present themselves again for examination at a time to be determined by the Board of Examiners; or candidates may be recommended for discontinuation of studies under the provisions of General Regulation G12.
  - (c) Candidates who have presented a dissertation or a case study report that has failed to satisfy the examiners at the first attempt may be permitted to revise and re-present the dissertation or the report within a period to be determined by the Board of Examiners; or candidates may be recommended for discontinuation of studies under the provisions of General Regulation G12.
  - (d) Candidates who have failed to satisfy the examiners in any part of the re-examinations or re-presentation of a dissertation/project may be recommended for discontinuation of studies under the provisions of General Regulation G12.
  - (e) A list of successful candidates shall be published. Candidates who have shown exceptional merit may be awarded a mark of distinction, and this mark shall be recorded in the candidates' degree certificate.
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## **SYLLABUSES FOR THE DEGREE OF MASTER OF SCIENCE IN AUDIOLOGY**

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**FIRST YEAR****MSCA7001. Anatomy and physiology**

Gross anatomy; neuroanatomy; growth and form; a survey of the physiological and related structural aspects of human biology.

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**MSCA7002. Hearing science**

Acoustic characteristics of sound; the decibel notation as a unit of measurement for signal intensity, psychoacoustics, speech science.

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**MSCA7003. Audiology I**

Basic audiologic terminology, the characteristics and calibration of pure tone audiometers; administration of pure-tone threshold measurement, speech audiometry, masking, impedance audiometry, diagnostic report writing and interpretation of audiograms.

**MSCA7004. Audiology II**

Study of the normal development of the auditory mechanism and the causes of hearing loss in children. Theories, principles and methods of assessing hearing of infants, preschoolers and school children. Paediatric and medical audiology: symptoms and prognosis of various ear and hearing related disease.

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**MSCA7005. Biological bases of speech and hearing**

The anatomy, physiology and neurology of speech and hearing: head and neck anatomy; the physiological and neurophysiological mechanisms involved in the production of speech; the anatomy and physiology of the hearing system.

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**MSCA7006. Amplification I**

Electroacoustic characteristics of personal hearing aids and classroom amplification systems; assessment and fitting procedures; spectral analysis of hearing aids; troubleshooting of hearing aids, earmould acoustics; earmould making; earmould impression taking.

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**MSCA7007. Intervention I**

Introduction to basic counselling approaches; interviewing and counselling techniques, case management; psychology of hearing impairment. The development, adjustment and educational needs of the deaf including mental development, personality development, emotional adjustment, and social maturity; the aptitude, special abilities, and associated handicaps of the deaf.

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**MSCA7008. Intervention II**

Principles and methods of teaching individuals with hearing loss to integrate auditory and visual cues for the comprehension of spoken language and improvement of speech perception and communicative efficiency.

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**MSCA7009. Practical training - year one**

Candidates shall complete prescribed supervised practical training in various approved settings. The practical experience will consist of assessment and rehabilitation of adults and children. The aim is to develop professional competence in all important areas of clinical practice:

- (a) working with both normal and clinical populations, adults and children, individual and group;
- (b) assessing the integrity of auditory and vestibular systems;
- (c) using audiological equipment;
- (d) planning and conducting treatment and rehabilitation programme; and
- (e) working effectively with allied professionals in different institutional settings.

A contract will be drafted by the clinic supervisor and each student in the beginning of a placement which states the student's areas of responsibilities, expected performance and means to evaluate his/her performance. A candidate who has failed in any placement setting may be permitted to repeat a similar placement. A candidate who has failed in any two placement settings, or in the re-examination in a particular setting, may be required to discontinue his/her studies.

## SECOND YEAR

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### **MSCA8001. Research methods**

Statistical procedures for analysing and reporting data, and applying computer skills in audiological and medical services. Research design; the design of experiments and the critical evaluation of experimental designs and statistical analyses in the research literature in audiology.

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### **MSCA8002. Audiology III**

Advanced audiological theories, principles and techniques of differentiating cochlear from retrocochlear lesions; site of lesion tests; central auditory and speech tests; physiological measurements of hearing including evoked response audiometry and otoacoustic emissions; electronystagmography.

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### **MSCA8003. Intervention III**

The study of the speech perceptual effect and the effect of amplification devices for deaf and hard of hearing listeners, advanced discussion of techniques of aural rehabilitation. Cochlear implant patients: criteria in the selection of potential candidates; pre-operation assessment techniques; and post-operation rehabilitation methods.

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### **MSCA8004. Special topics**

Industrial Audiology: Hearing protection of industrial workers; noise analysis, reduction of noise by engineering and administrative control; hearing protectors; industrial hearing conservation programmes; and medico-legal assessment.

Educational audiology: Education and psychology of exceptional individual; use of hearing aids by children; mainstreaming; psychological tests for the hearing impaired.

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### **MSCA8005. Amplification II**

Different types of amplification system including analog, hybrid and digital hearing aids and assistive listening devices. Calibration standards, calibration instrumentations and procedure for transducers and signals. Application of instruments in audiological and acoustical measurements. Cochlear implants: principles and theories of electrical stimulation of the inner ear; the technology of cochlear implants.

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### **MSCA8006. Practical training - year two**

Candidates shall complete prescribed supervised practical training in various approved settings. The practical experience will consist of assessment and rehabilitation of adults and children. The aim is to develop professional competence in all important areas of clinical practice:

- (a) working with both normal and clinical populations, adults and children, individual and group;
- (b) assessing the integrity of auditory and vestibular systems;
- (c) using of audiological equipment;
- (d) planning and conducting treatment and rehabilitation; and
- (e) working effectively with allied professionals in different institutional settings.

A contract will be drafted by the clinic supervisor and each student in the beginning of a placement which states the student's areas of responsibilities, expected performance and means to evaluate his/her performance. A candidate who has failed in any placement setting may be permitted to repeat a similar placement. A candidate who has failed in any two placement settings, or in the re-examination in a particular setting, may be required to discontinue his/her studies.

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**MSCA8007. Case study**

A report on the speech and hearing of a hearing impaired individual to include administration of appropriate hearing evaluation and rehabilitation.

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**MSCA8999. Dissertation**

On an approved topic related to Audiology and/or Hearing Sciences.