

FACULTY OF HEALTH School of Communication Sciences and Disorders

Audiology Curriculum Foundation Course Linkages

Phonetics (CMSD 5020)

Topics covered:

- a. Vowels
- b. Consonants
- c. Suprasegmentals
- d. Clinical transcription
- e. Dialectal variation

Related Courses

CMSD 5140 Aural (Re)habilitation with Children

CMSD 6360 Amplification I CMSD 6560 Amplification II

CMSD 6640 Advanced Audiologic Rehabilitation

CMSD 6630 Cochlear Implants

Audition I (CMSD 6310)

Topics covered:

- a. Outer ear, middle ear
- b. Cochlear anatomy and mechanics
- c. Hair cell physiology
- d. Cochlear potential and OATs
- e. Auditory nerve
- f. Central auditory system
- g. Psychoacoustics: perception and discrimination; marking; loudness and pitch

Related Courses

Audition II (CMSD 5280)

Topics covered:

- a. Mechanical conduction in middle and inner ear
- b. Middle ear function and neuronal control
- c. Advanced cochlear physiology
- d. The Efferent auditory system
- e. Neural activities and neural coding system
- f. Methods of central auditory system studies
- g. Signal perception/discrimination

Related Courses

CMSD 5220 Diagnostic Audiology CMSD 6320 Pediatric Audiology

CMSD 6380 Electrophysiological Audiometric Measures

CMSD 6420 Advanced Diagnostic Audiology

Speech and Language Acquisition (CMSD 5150)

Topics covered:

- a. Language components (pragmatics, semantics, phonology, morphology, syntax)
- b. Language theories
- c. Language development (infant, toddler, preschool, school-age)
- d. Reading and writing development
- e. Language differences and special populations

Related Courses

CMSD 5140 Aural (Re)habilitation with Children

CMSD 6320 Pediatric Audiology

Introduction to Neurosciences for Communication Disorders (CMSD 5290)

Topics covered:

- a. Organization of the nervous system
- b. Structure and electrical activity of neurons
- c. Sensory systems
- d. Motor systems
- e. Clinical neuroscience techniques
- f. Etiologies of neurogenic communication disorder
- g. Higher cortical functions and cognitive/behaviour manifestations of brain damage
- h. Cerebral asymmetry
- i. Development and recovery of function

Related Courses

CMSD 6310	Audition I
CMSD 5220	Diagnostic Audiology
CMSD 5280	Auditon II
CMSD 6380	Electrophysiological Audiometric Measures
CMSD 6420	Advanced Diagnostic Audiology
CMSD 6070	Topics in Audiological Procedures
CMSD 6630	Cochlear Implants and Other Implantable Technologies
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Fundamentals of Speech Science (CMSD 5050)

Acoustics and Sound Science Topics covered:

- a. Introduction and foundational physical principles
- b. Vibrations and waves
- c. Resonance, frequency, pitch
- d. Sound intensity and loudness perception
- e. Complex waves and wave analyses

Structure and Function of Speech System Topics covered:

- a. Respiratory anatomy and physiology
- b. Laryngeal function
- c. Velopharyngeal function
- d. Pharyngeal function

Related Courses

CMSD 5020 Phonetics CMSD 6310 Audition I CMSD 5280 Audition II

CMSD 5120 Hearing Measurement

All profession-specific second and third year courses.

Related Courses

CMSD 5020 Phonetics

Introduction to Audiology and Speech-Language Pathology (CMSD 5130)

Topics covered:

- a. Introduction to speech-language pathology
- b. Models of communication processing; international classification of functioning, disability, and health (ICF)
- c. Communication disorders across the lifespan speech-language pathology
- d. Socio-cultural aspects of communication
- e. Critical diversity; identifying assumptions
- f. Introduction to audiology
- g. Aging
- h. SAC code of ethics
- i. Professional practice issues in speech-language pathology
- j. Professional practice issues in audiology
- k. Living with chronic/episodic illness
- I. Advocacy and media images of communication disorders

Related Courses

Research Design (CMSD 6980)

Topics covered:

- a. Scientific principles & research questions
- b. Experimental design & levels of measurement
- c. Inferential statistics
- d. Groups designs
- e. Single subject designs
- f. Correlation designs
- g. Evidence-based practice:
 - levels of evidence;
 - finding external evidence;
 - evaluating treatment evidence;
 - evaluating diagnostic evidence;
 - scientific evidence;
 - clinical experience; and
 - client preferences

Related Courses

Clinical Methods (CMSD 5071X/Y)

Topics covered:

Clinical Skills Practice: Assessment and Management

- a. Facilitating self-knowledge
- b. Observation skills
- c. Assessment techniques and practice
- d. Patient management issues
- e. Report writing
- f. Behaviour management

Clinical Skills Practice: Interviewing and Counselling

- a. Case History taking
- b. Interviewing Practice
- c. Counselling
- d. Counselling Practice
- e. Counselling Simulations

Related Courses

Hearing Measurement (CMSD 5120)

Topics covered:

- a. Pure-tone air and bone-conduction measures
- b. Audiometric masking
- c. Speech testing
- d. Pseudohypoacusis
- e. Hearing loss prevention
- f. The immittance battery
- g. Electrophysiologic measures
- h. Otoacoustic emissions
- i. Hearing screening and pediatric assessment
- j. Hearing aids and implants

Related Courses

Hearing Disorders (CMSD 5260)

Topics covered:

- a. Basic medical terminology
- b. Anomalies and disorders of the external ear
- c. Eustachian tube and otitis media
- d. Infection control in the clinical setting
- e. Middle ear and tympanic membrane pathologies
- f. Genetic hearing loss
- g. Syndromic hearing loss
- h. TORCH related hearing loss and cleft palate
- i. Acquired, noise-induced and sudden hearing loss
- j. Trauma
- k. Ototoxicity
- I. Presbyacusis
- m. Adult neurological disorders
- n. Brainstem lesions

Related Courses