Speech-Language Pathology Curriculum

Foundation Course Linkages

### Phonetics
(HUCD 5020)

**Topics covered:**
- a. Vowels
- b. Consonants
- c. Suprasegmentals
- d. Clinical transcription
- e. Dialectal variation

### Related Courses
- HUCD 5250  Speech Disorders – Children
- HUCD 6390  Voice/Resonance Disorders
- HUCD 6450  Speech Disorders – Adults
- HUCD 5140  Aural (Re)habilitation with Children
## Audition I
(HUCD 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
- HUCD 5120  Hearing Measurement
- HUCD 5260  Hearing Disorders
- HUCD 5140  Aural (Re)habilitation with Children
Speech and Language Acquisition  
(HUCD 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

<table>
<thead>
<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>HUCD 5270</td>
<td>Language Disorders in Preschool Children</td>
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<td>HUCD 6470</td>
<td>Language Disorders in School-age Children</td>
</tr>
<tr>
<td>HUCD 6490</td>
<td>Advanced Language Disorders in Children</td>
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<td>Augmentative and Alternative Communication</td>
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**Introduction to Neurosciences for Communication Disorders**  
(HUCD 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

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<td>HUCD 6350</td>
<td>Assessment of Neurogenic Language and Cognitive Disorders – Adult</td>
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<tr>
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### Fundamentals of Speech Science

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<th>Acoustics and Sound Science</th>
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<td><strong>Topics covered:</strong></td>
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<td>a. Introduction and foundational physical principles</td>
</tr>
<tr>
<td>b. Vibrations and waves</td>
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<tr>
<td>c. Resonance, frequency, pitch</td>
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<td>d. Sound intensity and loudness perception</td>
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<td>e. Complex waves and wave analyses</td>
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<th>Structure and Function of Speech System</th>
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<tr>
<td><strong>Topics covered:</strong></td>
</tr>
<tr>
<td>a. Respiratory anatomy and physiology</td>
</tr>
<tr>
<td>b. Laryngeal function</td>
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<td>c. Velopharyngeal function</td>
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<td>d. Pharyngeal function</td>
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Introduction to Audiology and Speech-Language Pathology  
(HUCD 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-OAC code of ethics  
i. Professional practice issues in speech-language pathology  
j. Professional practice issues in audiology  
k. Living with chronic/episodic illness  
l. Advocacy and media images of communication disorders

**Related Courses**

All profession-specific second and third year courses.
### Research Design
(HUCD 6980)

**Topics covered:**
- Scientific principles & research questions
- Experimental design & levels of measurement
- Inferential statistics
- Groups designs
- Single subject designs
- Correlation designs
- Evidence-based practice:
  - levels of evidence;
  - finding external evidence;
  - evaluating treatment evidence;
  - evaluating diagnostic evidence;
  - scientific evidence;
  - clinical experience; and
  - client preferences

### Related Courses
All profession-specific second and third year courses.
Clinical Methods  
(HUCD 5070X/Y)  

Topics covered:  
- Behavioral observation and management  
- Case history taking and interviewing  
- Interviewing practice  
- Counselling  
- Counselling practice  
- Counselling simulations  
- Professionalism  
- Feedback and evaluation  
- Conflict management  
- Interprofessional education  
- Infection control  
- Child welfare  
- Goal setting and treatment planning  
- Report writing  
- Principles of assessment and treatment  
- Behaviour management  

Related Courses  

All profession-specific second and third year courses.