

UBC COURSE DESCRIPTIONS

AUDIOLOGY AND SPEECH SCIENCES

- Neuroanatomy** *Audi 402 – *Neuroanatomy for Audiology and Speech Sciences*. An overview of neuroanatomy and functional neuroanatomy with emphasis on neuroanatomy related to hearing and speech mechanisms.
- Neurolinguistics** Audi 403 – *Introduction to Neurolinguistics*. Addresses historical and current issues in studying the neuroanatomical substrates associated with language processing, including brain imaging, localization, and lateralization of language functions.

LINGUISTICS (Faculty of Arts)

- Introduction to Linguistics** Ling 100 – *Introduction to Language and Linguistics*. An introduction to the study of language as a universal and uniquely human cognitive system; what universals do all languages share and how do languages differ. An investigation of sound systems, word-building, grammatical principles, language change, dialect variation, language acquisition, neurolinguistics.
- Phonology** Ling 311 – *Studies in Phonology*. Introduction to phonological analysis and theory, with a strong emphasis on description and analysis of data from a wide variety of languages.
- Syntax** Ling 300 – *Studies in Grammar*. Introduction to syntactic analysis and theory, with emphasis on description and analysis of data from a wide variety of languages.
- Phonetics/ Speech Science** Ling 316 – *Introduction to Phonetics and Speech Science*. Introduction to the speech chain, with examples from speech anatomy, physiological phonetics, acoustic phonetics, linguistic phonetics, and speech perception. Introduction to microcomputer acoustic analysis. Examples primarily from normal speech.
- Language Acquisition** Ling 451 – *Acquisition of Phonology*. Infant speech perception, prelinguistic phases, word phonology, early phonology, and later morphophonology. Child language data will be informed by phonological theory (e.g., syllable structure, metrical structure, harmony processes, feature geometry, underspecification). Not offered every year.
- Ling 452 – *Acquisition of Syntax*. The logical problem of language acquisition, learnability theory, early syntactic and semantic development (e.g., semantic bootstrapping, acquisition of lexical semantics) and later syntactic and morphological development (e.g., word order, control, coreference, movement). Not offered every year.

PHYSICS (Faculty of Science)

- Introduction to Physics** Phys 101 – *Energy and Waves*. Conservation laws, rotational motion, simple harmonic motion, sound, fluids, heat, including biological applications.

PSYCHOLOGY (Faculty of Arts)

- Developmental Psychology** Psyc 302 – *Infancy*. Human cognition, perception, motor, social, emotional needs, brain development and their interactions from birth until the emergence of language.
- Psyc 315 – *Childhood and Adolescence*. Human development from the preschool period through adolescence.
- Psyc 412 – *Cognitive Development*. The development of fundamental cognitive abilities from infancy through adulthood, including traditional approaches to cognitive development as well as new areas of current investigation.
- Cognitive Psychology/ Psycholinguistics** Psyc 309 – *Cognitive Processes*. Contribution of cognitive processes to perception, attention, and memory; cognitive development, language, thinking, and creativity.
- Psyc 333 – *Memory: Historical, Clinical and Cognitive Perspectives*. Classical and contemporary metaphors for memory and their impact on theory development.
- Psyc 336 – *The Psychology of Language I*. Psychological abilities underlying human language; language processing, lexical representation, and principles of online conversation; animal versus human communication.

**Research
Methods**

Psyc 217 – Thinking Clearly About Psychology. Thinking about psychological science, with an emphasis on common errors of judgment.

Psyc 366 – Methods in Research. Detailed coverage of basic research methods; the design of experiments and statistical analysis; methods will be applied in laboratory and project work.

**Sensation/
Perception**

Psyc 367 – Sensory Systems. Anatomy and physiology of the sensory pathways and their relation to perception.

Psyc 368 – Perceptual Processing. Perceptual phenomena and their underlying brain mechanisms.

