

School of Audiology and Speech Sciences
At the University of British Columbia

Master of Science Programs
M.Sc. in Audiology
M.Sc. in Speech-Language Pathology

Prerequisites for Future Students

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Appendix 2Prerequisites for Admission: Speech-Language Pathology

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Prerequisites for Admission: Audiology

Minimum Prerequisites for Admission to the Audiology Major:

<u>Course Content</u>	<u>Minimum Credits*</u>
Introduction to Physics [energy and waves]	3 credits
Developmental Psychology	3 credits
Sensation/Perception	3 credits
Research Methods**	3 credits
Introduction to Linguistics	3 credits
Neuroanatomy for Audiology and Speech-Language Pathology	3 credits

*A 3-credit course is equivalent to a one-term course that meets 3 hours per week.

**Must include Research Design (primarily Research Design rather than a Statistics course)

Additional Coursework Recommended for Audiology Applicants:

For students who plan to specialize in Audiology, additional undergraduate preparation could include, for example, Brain and Behavior, Adulthood and Aging, additional Developmental Psychology, Cognitive Psychology, Counseling, Biology, Phonology, Syntax, Acoustic Phonetics, Discourse, and Statistics.

Prerequisites for Admission: Speech Language Pathology

Minimum Prerequisites for Admission to the Speech-Language Pathology Major

<u>Course Content</u>	<u>Minimum Credits*</u>
Phonology	3 credits
Syntax	3 credits
Speech Science	3 credits
Language acquisition	3 credits
Phonetics**	3 credits
Developmental psychology	3 credits
Cognitive psychology OR Psycholinguistics	3 credits
Research methods***	3 credits
Neuroanatomy for Audiology and Speech-Language Pathology	3 credits
Introduction to Neurolinguistics	1.5 credits

**Courses are to be at the upper level (300 or 400) when possible. Note that most upper level courses have prerequisites at the 100 or 200 level. A 3 credit course is equivalent to a one term course which meets 3 hours per week.*

***Phonetics (including transcription practice) must be covered at some point in the course of study. Students are required to provide evidence of this in their applications.*

****Must include Research Design (primarily Research Design rather than a Statistics course)*

Additional Coursework Recommended for Speech-Language Pathology Applicants:

For students majoring in Speech Sciences or Linguistics, undergraduate preparation could include additional coursework in Psychology such as Cognitive Psychology, Development, Psycholinguistics, Adulthood and Aging, and Counseling as well as Linguistics.

For students majoring in Psychology, additional undergraduate preparation could include, for example, further courses in Linguistics such as Speech Science, Semantics, Syntax, Morphology, Discourse, Sociolinguistics, and/or courses in Psychology such as those listed in the previous paragraph.

Prerequisite Academic Preparation

Applicants to the School are required to complete course work in specific areas depending on specialization (see Appendix 2) before beginning their graduate studies. Descriptions of the courses that would fulfill these content area requirements at UBC are listed below. Students from other universities should identify the courses that are as nearly equivalent as possible.

AUDIOLOGY AND SPEECH-LANGUAGE PATHOLOGY

AUDI 402 (3 credits) Neuroanatomy for Audiology and Speech-Language Pathology: An overview of neuroanatomy and functional neuroanatomy with emphasis on neuroanatomy related to hearing and speech mechanisms. **IMPORTANT DATE: If you require prerequisite course content for AUDI 402, this course is offered on-line twice a year beginning in January and May. See last page for registration information**

AUDI 403 (1.5 credits) 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. **IMPORTANT DATE: If you require prerequisite course content for AUDI 403, this course is offered on-line each year beginning in March. See last page for registration information.**

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.
Speech Science	Ling 313 – Introduction to Linguistic Phonetics and Speech Science. The articulatory and acoustic properties of speech production and perception, including practice in phonetic transcription, instrumental recording, and the analysis of normal speech.
Phonetics	Ling 314– Instrumental Phonetics. Physiological and/or acoustic phonetics. Focus on experimental methods and analysis techniques. Topics may include: source-filter theory; spectral and temporal acoustic analysis, inter-articulator timing and motor coordination.
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.
Research Methods	Ling 333 – Research Methods for Linguistics. Research methods used in linguistics and speech science. Emphasis on scientific reasoning, critical thinking, experimental design, and the ethics and methods of linguistic data-collection.

PHYSICS (Faculty of Science)

- Introduction to Physics** Phys 100 – **Introductory Physics**. An introduction to fundamental concepts such as force, energy, momentum, and the use of graphs and vectors in physics; geometrical optics; electricity; laboratory exercises to familiarize the student with both the phenomena and the basic laboratory instruments commonly used to measure them.
- 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.
- 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.
- EPSE 481 – **Introduction to Research in Education**. The nature of scientific study and essentials of survey, experimental and other empirical research designs. Designed for students proceeding to graduate work.
- Kin 373 – **Research Methods in Kinesiology**. Critical evaluation of research studies and methods with emphasis on the physical activity content.
- Ling 333 – **Research Methods for Linguistics**. Research methods used in linguistics and speech science. Emphasis on scientific reasoning, critical thinking, experimental design, and the ethics and methods of linguistic data-collection.
- 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

Audiology Prerequisite Equivalents at Other Universities

This table is for reference only and is not deemed to be a complete listing of ALL courses equivalent to UBC prerequisites. Periodically, universities change the content of their courses without our knowledge. It is the student's responsibility to ensure their coursework fulfils the content of the prerequisite courses for the UBC MSC programs. For courses not listed below, students are required to submit a full syllabus for evaluation by the Admissions Committee.

	Introduction to Physics	Developmental Psychology	Sensation and/or Perception	Research Methods	Introduction to Linguistics	Neuroanatomy
UBC	Phys100 or 101	Psyc302 or 315	Psyc367 or 368	Psyc217 or 366 or EPSE481 or Kin373 or Ling333	Ling100	Audi402
UBC Okanagan	Phys112	Psyo321	Psyo313 or 314	Psyo270	Anth170	*
U. Alberta	Phys124 or 130	Psyco223 or 323	Psyco367	Psyco212	Ling101	Anat401
Athabasca U.	Phys200	Psyc323	Psyc333	Psyc304 or Sosc366	Anth354	*
Brock U.	Phys1P21 or 1P91	Psyc2P12 or 3P18 or 3P35	Psyc2P36 or 2P49 or Neur2P36	Psyc3P30 or 3F40	Ling1F94	*
U. Calgary	Phys227 or Phys211 or Phys221	Psyc351 or 429	Psyc369	Psyc312 or Anth411 or	Ling201	*
Carleton U.	Phys1007	Psyc2500 or 3500	Psyc2200 or 3702	Psyc2001	Ling1001	*
Concordia U.	Phys206	Psyc431 or 432	Psyc363	Psyc310 or 311	Ling200	*
Dalhousie U.	Phys1100	Psyc2090 or 3390			Fren2020	Nesc3440
Grant MacEwan U.	Phys124	Psyc223 or 324	Psyc267	Psyc212 or 312	Ling101	*
U. Guelph	Phys1070 or 1080 or 1130	Psyc2450	Psyc2390	Psyc2360	Ling1000	*
Kwantlen U.				Psyc3400	Ling1100	*
Laurentian U.		Psyc2005				Ortho2106
U. Lethbridge	Phys2130	Psyc2110	Psyc3360 or 4325	Psyc3400	Ling2300 or 2600	*
U. Manitoba	Phys1070 or Phys16.103	Psyc2290 or 2310	Psyc3160	Psyc2250 or 2260	Ling1200	*
McGill U.	Phys101	Psyc304	Psyc212	Psyc305	Ling201	*
McMaster U.	Phys1B03 or Phys1L03	Psych3HH3 or 3GG3 or 2AA3	Psych2E03 or Psych3A03 or P2XA3	Psych2RA3/2RB3 or Kines3C03 or Ling2D03 or P3RM3	Ling1A03 or 1AA3	Psych2F03 or PNB2XB3 (AUDI only)
Mount Allison U.	Phys1051	Psyc2431	Psyc3211	Psyc2001	Ling2001 or 3001	*
Memorial U.	Phys1021	Psyc2010 or 2011 or 3050	Psyc3350	Psyc2920 or 2910 or 2911	Ling1103 or 1104	*
U. New Brunswick Fredericton & Saint John	Phys1062(Fred) or Phys1010(SJ)	Psyc2203(Fred) or Psyc2201(SJ)	Psyc3383(SJ)	Psyc2113(Fred) or Psyc2102(SJ)	Ling2401(Fred) or Ling2101(SJ)	*
U. Ottawa	Phy1121 or 1321	Psy2105 or 2505 or 2114	Psy3108 or 3508	Psy2174 or 2574	Lin1300	*
Queen's U.	Phys107 or Phys118	Psyc251	Psyc215	Psyc203 or Hlth252	Ling100	Anat312
U. Regina	Phys112 or 119	Psyc210 or 310	Psyc375	Psyc204	Ling100	*
U. Saskatchewan	Phys117	Psy213	Psy252	Psy235 or 328	Ling111	*
SFU	Phys100 or 101 or 255	Psyc250 or 353	Psyc303 or 335	Psyc201 or 301	Ling220	*

* = Available online at UBC as AUDI402

¹ = Online Course

² = Please submit syllabus for evaluation if using as prerequisite

Audiology Prerequisite Equivalents at Other Universities

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	Introduction to Physics	Developmental Psychology	Sensation and/or Perception	Research Methods	Introduction to Linguistics	Neuroanatomy
<i>Thompson Rivers U.</i>	Phys1103	Psyc3151		Psyc2111		*
<i>Trinity Western U.</i>		Psyc215	Psyc309	Psyc322	Ling101	*
<i>U of T (Mississauga)</i>	Phy135Y5	Psy210H5	Psy280H5	Psy202H5	Lin100Y5	*
<i>U of T (Scarborough)</i>	PHYA10H3	PSYB20H3	PSYB51H3	PSYB01H3 or PSYC08H3	LINA01H3	*
<i>U of T (Downtown)</i>					Ling100Y1Y	*
<i>U. Victoria</i>	Phys102	Psyc335 or CYC166A ²	Psyc317A or Psyc317B	Psyc201	Ling100A	*
<i>UWO</i>	Physics1021	Psyc2040B or Psyc2410A	Psyc2115	Psyc2800E or Kine2032B or Psyc2820	Ling2288	Anatomy2225
<i>U. Waterloo</i>	Phys112	Psych211	Psych306	Psych291	Engl306A	*
<i>Wilfrid Laurier University</i>		PS275				*
<i>U. Winnipeg</i>		Psyc3200	Psyc2610	Psyc2101 or 2102		*
<i>York U.</i>		Psyc2110 or 3520	Psyc2220	Psyc2030	Ling1000	Kine3650
<i>Vancouver Island University</i>		Psyc336	Psyc315	Psyc204 or Psyc400	Ling112	*
<i>University of Windsor</i>	Phys64-130	Psyc46-223	Psyc46-335	Psyc46-230	Ling 07-120	*

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Audiology and Speech Sciences

Speech-Language Pathology Prerequisite Equivalents at Other Universities

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	Phonology	Syntax	Speech Science	Language Acquisition	Phonetics	Developmental Psychology	Cognitive Psychology ³	Psycholinguistics ³	Research Methods	Neuroanatomy	Neurolinguistics
UBC	Ling311	Ling300	Ling313 or 316	Ling451 or 452	Ling314 or 317	Psyc302 or 315	Psyc309 or 333	Psyc336	Psyc217 or 366 or EPSE481 or Kin373 or Ling333	Audi402	Audi403
UBC Okanagan		Anth370				Psyso321	Psyso311 or 312		Psyso270	*	*
U. Alberta	Ling310	Ling204 or 309		Ling319 or CSD211 ¹	Ling205 ¹	Psyco223 or 323	Psyco258	Ling500	Psyco212	Anat401	Ling321
Athabasca U.						Psyc323	Psyc355		Psyc304 or Sosc366	*	*
Brock U.	Ling2P53	Ling3P71	Ling2P91 or 2P90	Ling3P61	Ling2P50	Psyc2P12 or 3P18 or 3P35	Psyc2P20	Ling1P92	Psyc3P30 or 3F40	*	Ling3Q93
U. Calgary	Ling303	Ling301 or 401	Ling341	Ling331	Ling341 or Ling441	Psyc351 or 429	Psyc365 or 451	Psyc467 or Ling 467	Psyc312 or Anth411 or Soci313	*	*
Carleton U.	Ling3007	Ling3004 or 4002		Ling3603 or Psyc3508	Ling2001	Psyc2500 or 3500	Psyc3506 or 3700	Psyc4704 or Ling3601	Psyc2001	*	Ling 3601
Concordia U.	Ling373	Ling315 or 415		Ling425	Ling372	Psyc431 or 432	Psyc364 or 466	Ling353	Psyc310 or 311	*	*
Dalhousie U.				Psyso3093		Psyso2090	Psyso2130	Psyso3190		Nesc3440	*
Grant MacEwan U.						Psyc223 or 324	Psyc258		Psyc212 or 312	*	*
U. Guelph						Psyc2450	Psyc2650 or 3440	Psyc3340	Psyc2360	*	*
Kwantlen U.						P3316	Psyc2385		Psyc3400	*	*
Laurentian U.	Ling3007	Ling2006	Ortho1107	Ortho1106	Ling3006	Psyc2005		Ling4006		Ortho2106	
U. Lethbridge		Ling2600		Ling3400	Ling2300 or 3600	Psyc2110	Psyc3325 or 4325		Psyc3400	*	*
U. Manitoba	Ling3140	Ling3120	Ling2830	Ling2860 OR Psyc2860	Ling1380	Psyc2290 or 2310	Psyc2480	Psyc3580	Psyc2250 or 2260	L2850	*
McGill U.	Ling331	Ling371		Ling355 or Psyc343	Ling330	Psyc304	Psyc311 or 413	Psyc329 or 340	Psyc305	*	Ling390 or 590
McMaster U.	Ling3A03 or Anth3A03 or Ling2PH3	Ling3I03 or Anth3I03	Ling2L03 or Anth2L03	Ling3C03 or Psych3C03	Ling 2L03 or Anth2L03	Psych3HH3 or 3GG3 or 2AA3	Psych3II3 or 2H03 or PNB2XA3	Psych3UU3 or Ling2PS3	Psyc2RA3 or 2RB3 or Kines3C03 or Ling2D03	*	Ling4F03 or Ling3NL3
Mount Allison U.				Psyc3401		Psyc2431	Psyc2201 or 3411	Psyc3221	Psyc2001	*	*
Memorial U.	Ling3201 or 4201	Ling3100		Ling3155	Ling3104	Psyc2010 or 2011 or 3050	Psyc3450	Psyc4461	Psyc2920 or 2910 or 2911	*	*

* = Available online at UBC as AUDI402 and AUDI403

¹ = Online Course

² = Please submit syllabus for evaluation if using as prerequisite

³ = Only one of either Cognitive Psychology **OR** Psycholinguistics

Audiology and Speech Sciences

Speech-Language Pathology Prerequisite Equivalents at Other Universities

*This table is for reference only and is not deemed to be a complete listing of ALL courses equivalent to UBC prerequisites. Periodically, universities change the content of their courses without our knowledge. It is the student's responsibility to ensure their coursework fulfils the **content** of the prerequisite courses for the UBC MSc programs. For courses not listed below, students are required to submit a full syllabus for evaluation by the Admissions Committee.*

	Phonology	Syntax	Speech Science	Language Acquisition	Phonetics	Developmental Psychology	Cognitive Psychology ³	Psycholinguistics ³	Research Methods	Neuroanatomy	Neurolinguistics
<i>U. New Brunswick Fred/SJ campuses</i>		Ling3422 or 3114		Ling3111	Ling3411 or 3113	Psyc2203 or 2201	Psyc3243 or 3623 or 3693		Psyc2113 or 2102	*	*
<i>U. Ottawa</i>	Lin3320	Lin2310 or 3310	Lin4325	Lin3354 or Psy3136	Lin3325	Psy2105 or 2505 or 2114	Psyc3377	Lin3350	Psy2174 or 2574	*	Lin2352
<i>Queen's U.</i>	Ling320	Ling340			Ling310	Psyc251	Psyc220	Psyc321	Psyc203	Anat312	*
<i>U. Regina</i>	Ling410	Ling213 or 413		Ling325 or 327	Ling210	Psyc210 or 310	Psyc270	Psyc374	Psyc204	*	*
<i>U. Saskatchewan</i>	Ling340				Ling242	Psy213	Psyc317 or 318		Psy235 or 328	*	*
<i>SFU</i>	Ling321	Ling322	Ling 290 or 401	Ling350	Ling330	Psyc250 or 353	Psyc354 or 382		Psyc201 or 301	*	Ling415
<i>Thompson Rivers U.</i>						Psyc3151			Psyc2111	*	*
<i>Trinity Western U.</i>	Ling330	Ling360 or Ling362	Ling310	Ling471	Ling476	Psyc215	Psyc326		Psyc322	*	*
<i>U of T (Mississauga)</i>	Lin229H5 or 322H5	Lin232H5		Psy315H and JLP 315H5	Lin228H5	Psy210H5	Psy312H5 or 270H5	Psy374H5 and JLP 374H5	Psy202H5	*	*
<i>U of T (Scarborough)</i>	LINC02H3	LINC11H3	LINB09H3	PLIC24H3	LINB04H3	PSYB20H3	PSYB57H3	PLIC55H3	PSYB01H3 OR P SYC08H3	*	*
<i>U of T (Downtown)</i>	Lin229H1	LIN232H1	LING1126H or LIN323H1	JL315H1	LIN228H1	PSY210H1		JLP374H1		*	*
<i>U. Victoria</i>	Ling440 or Ling 312	Ling410A or Ling 311	Ling381	Ling370B or Psyc370B	Ling200 or 380	Psyc335 or CYC166A ²	Psyc313 or 435C	Psyc370A or Ling 370A	Psyc201 or Ling204	*	LING/PSYC470
<i>UWO</i>	Ling2247 or Anth2247	Ling2248 or Anth2248	Ling2247 or Ant 2247	CSD 4439	Ling2247 or Anth2247	Psyc2040B or Psyc2410A	Psyc2010A or 2135 or 3185	Psyc2134 or 3184	Psyc2800E or Psyc2820	Anatomy2225	*
<i>U. Waterloo</i>				Psych320		Psych211	Psych207 or 314		Psych291	*	*
<i>Wilfrid Laurier University</i>						PS275	PS260B	PS366A		*	*
<i>U. Winnipeg</i>		Eng2802 /Ling2003				Psyc3200	Psyc3600	Psyc2620	Psyc2101 or 2102	*	*
<i>York U.</i>	Ling3120	Ling3140		Ling3210 or 3240	Ling2110	Psyc2110 or 3520	Psyc3260	Ling3220 or Psyc3290	Psyc2030	Kine3650	*
<i>Vancouver Island University</i>						Psyc336			Psyc400 or Psyc204	*	*
<i>University of Windsor</i>						Psyc46-223			Psyc46-230	*	*

* = Available online at UBC as AUDI402 and AUDI403

¹ = Online Course

² = Please submit syllabus for evaluation if using as prerequisite

³ = Only one of either Cognitive Psychology OR Psycholinguistics

TO BE ELIGIBLE TO REGISTER FOR AUDI 402 and/or AUDI 403:

1. Ensure that you have completed (*or are currently completing*):

For AUDI 402, at least ONE of the following prerequisite(s):

- Sensation (UBC Course: Psyc: 367) or equivalent
- Perception (UBC Course: Psyc: 368) or equivalent
- Speech Science (UBC Course: LING 313 and LING 314) or equivalent
- 4th year students who have completed both Anatomy & Physiology
- Biopsychology
- Neuropsychology

For AUDI 403 ALL of the following prerequisites:

- Linguistic Theory and Analysis I or equivalent (UBC Course: LING 200)
- Linguistic Theory and Analysis II or equivalent (UBC Course: LING 201)
- Neuroanatomy or equivalent (UBC Course: AUDI 402—can be taken concurrently with AUDI 403), or permission of instructor audi402-403@audiospeech.ubc.ca

2. Provide unofficial transcripts (can be copies of originals) documenting your completed prerequisite coursework for AUDI 402 *or* AUDI 403. For courses not taken at UBC you must send the course syllabi (not a calendar description).

Send your **all transcripts and course syllabi (if needed)** by one of these methods:

- **FAX #: 604-822-6569**
The School of Audiology and Speech Sciences
ATTN: AUDI 402 prerequisites *or* AUDI 403 prerequisites
** Include your e-mail address
- **E-mail: audi402-403@audiospeech.ubc.ca**
Send materials by PDF as attachments.
Subject line: AUDI 402 *or* 403 prerequisites
Include your name in the e-mail.

3. Materials received will be reviewed on a monthly basis. When we have determined whether you meet the eligibility requirements for AUDI 402 or AUDI 403, you will be sent an e-mail regarding the confirmation of your eligibility for registration. If confirmed, you will be provided with instructions for registering for the course according to whether you are a UBC student or not a UBC student.