The School of Audiology and Speech Sciences

Introduction
Master of Science
  Introduction
  Academic Advising
  Admission
  Degree Requirements
Doctor of Philosophy
  Academic Staff
Introduction

A School within the Faculty of Medicine

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School of Audiology and Speech Sciences (http://www.audiospeech.ubc.ca)

The School of Audiology and Speech Sciences endeavours to advance knowledge of human communication and its disorders by actively engaging in research, and by educating individuals to become audiologists, speech-language pathologists, and researchers. In its teaching and research programs, the School emphasizes both the importance of basic science to the understanding of communication disorders and the relevance of clinical data to theories of human communication.

The study of human communication forms the basis of, and unifies, the scientific and professional fields of Audiology and Speech-Language Pathology. This study is concerned with hearing and speech function, and with the understanding and use of language at all levels of physiological, linguistic, psychological, and sociocultural organization. It is framed by theories and empirical evidence from acoustics, psychology, physiology, linguistics, and related disciplines, and embraces a continuum of endeavour from basic research to clinical practice.

The School's Master of Science and Doctor of Philosophy programs are designed to insure that graduates are grounded in the basic and applied sciences, can address complex communication problems within an interdisciplinary framework, and understand the relevance of theory in research as well as practical endeavours.

Master of Science

Master of Science > Introduction

The School offers a graduate program leading to the Master of Science. This program is designed to provide the scientific and clinical education necessary for the professions of Audiology and Speech-Language Pathology. Students must designate a major in one of these two fields at the time of admission. The M.Sc. program will require 24 to 36 months to complete, depending on the student's undergraduate preparation.

As well as providing opportunities for graduate research on human communication and its disorders, the M.Sc. program enables graduates to complete the academic and practical requirements for professional certification. The curriculum alternates periods of university-based study with periods of supervised clinical practice in the community. During these externships the student gradually assumes clinical responsibility for clients, under supervision. The clinical education program strives to provide each student with experience in all aspects of the major professional area as well as a foundation of clinical experience in the minor. Graduates will have completed at least the minimum number of hours of clinical practice required for certification by Canadian professional associatic
Students are assigned a faculty advisor at the School’s Orientation on the first day of classes in September. This assignment may change as the student's research interests mature.

**Master of Science > Admission**

The M.Sc. program is designed for students who wish to combine rigorous scholarship with challenging professional practice in either Speech-Language Pathology or Audiology. Admission is on a competitive basis. Applicants must meet the Faculty of Graduate Studies’ minimum requirements, i.e., a cumulative average of at least 76% over the last two years of a four-year undergraduate degree, or at least 12 credits with a minimum grade of 80% in courses at the 300-level or above. Additionally, the School requires applicants to have appropriate undergraduate preparation as defined below.

Most students seeking to specialize in Speech-Language Pathology find that degree programs in Linguistics or Psychology are the best route to achieving the necessary undergraduate preparation for the M.Sc. degree program.

For students seeking to specialize in Audiology, the routes for preparation are diverse and could include an undergraduate degree in, for example, engineering, psychology, biology, or physics.

The School does not, however, require that the applicant's undergraduate degree be earned in a specific discipline as long as the applicant has completed work in the prerequisite content areas listed below.

**Prerequisite Courses**

Academic study in the specific content areas listed below is considered to be essential preparation for specialization in either audiology or speech-language pathology in the Master of Science curriculum. Completion of the M.Sc. degree in Audiology or Speech-Language Pathology will require in-depth knowledge in all of the prerequisite content areas listed for the chosen specialization. Completion of the listed prerequisites is one of the major criteria for admission. Students who have completed courses (or the equivalent) in all or most of the required areas (10 content areas for speech-language pathology; 6 areas for audiology) will be more likely to receive offers of admission, all other things being equal. (See the website for further details.)

It is not possible to fulfill prerequisite content requirements and concurrently enrol in the full graduate curriculum. Students who need to extend the M.Sc. program over a longer period of time because of family or health concerns should contact the Admissions Committee prior to applying in order to discuss possibilities.

**SPEECH-LANGUAGE PATHOLOGY: Prerequisites for the Speech-Language Pathology Major**

<table>
<thead>
<tr>
<th>Course Content</th>
<th>Minimum Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phonology</td>
<td>3</td>
</tr>
<tr>
<td>Syntax</td>
<td>3</td>
</tr>
<tr>
<td>Speech Science</td>
<td>3</td>
</tr>
<tr>
<td>Language Acquisition</td>
<td>3</td>
</tr>
<tr>
<td>Phonetics(^2)</td>
<td>evidence of competency</td>
</tr>
<tr>
<td>Developmental Psychology</td>
<td>3</td>
</tr>
<tr>
<td>Cognitive Psychology or Psycholinguistics</td>
<td>3</td>
</tr>
<tr>
<td>Research Methods(^3)</td>
<td>3</td>
</tr>
<tr>
<td>Neuroanatomy</td>
<td>3</td>
</tr>
<tr>
<td>Neurolinguistics</td>
<td>1.5</td>
</tr>
</tbody>
</table>
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.

Evidence of transcription competencies may consist of (a) completion of a phonetics course that explicitly includes transcription skills, or (b) notice from the applicant's department that the student has passed a transcription examination.

Must include Research Design.

Additional Content Areas Recommended for Speech-Language Pathology Applicants

For students who plan to specialize in Speech-Language Pathology, further preparation could include: advanced courses in the areas listed above, or coursework in other areas of psychology or linguistics such as adulthood and aging, atypical development, cognitive psychology, psycholinguistics, counselling, linguistic field methods, physiological psychology, morphology, speech science, syntax, pragmatics, semantics, and sociolinguistics.

AUDIOLOGY: Prerequisites for the Audiology Major

<table>
<thead>
<tr>
<th>Course Content</th>
<th>Minimum Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introduction to Physics (energy and waves)</td>
<td>3</td>
</tr>
<tr>
<td>Developmental Psychology</td>
<td>3</td>
</tr>
<tr>
<td>Sensation/Perception</td>
<td>3</td>
</tr>
<tr>
<td>Research Methods</td>
<td>3</td>
</tr>
<tr>
<td>Introduction to Linguistics</td>
<td>3</td>
</tr>
<tr>
<td>Neuroanatomy</td>
<td>3</td>
</tr>
</tbody>
</table>

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

2 Must include Research Design.

Additional Content Areas Recommended for Audiology Applicants

For students who plan to specialize in Audiology, further undergraduate preparation could include additional coursework in the social and life sciences, e.g., acoustic phonetics, adulthood and aging, biology, brain and behaviour, cognitive psychology, additional developmental psychology, additional sensory psychology, neurosciences, counselling, discourse, language acquisition, phonology, syntax, and statistics.

The Application Process

Persons interested in applying to the School's M.Sc. program should visit the School (http://www.audiospeech.ubc.ca). Applicants should ensure that the application and all supporting materials are received by the School by the final deadline of February 1. (Applicants from schools outside of Canada or the USA are recommended to submit their applications by mid-January). The School reviews applications in February and March and normally makes offers of admission in March. However, applicants of exceptional merit may receive early offers of admission upon receipt of their application materials. Further questions should be directed to the Chair of the Admissions Committee in the School of Audiology and Speech Sciences.

The following application must be submitted in order for the Admissions Committee to consider an applicant:

1. An online application (http://grad.ubc.ca/apply/online), including a list of completed prerequisite courses.

The following materials should be sent directly to the School of Audiology and Speech Sciences:

1. A written statement by the applicant of up to 500 words (typewritten, double-spaced) indicating the reason for wishing to study Audiology or Speech-Language Pathology, the aspects of the field which are of particular interest to the applicant and
any other relevant facts. At the end of the statement, a list should be given with the names of at least two professionals (at least one Speech-Language Pathologist and one Audiologist) with whom the applicant has met to discuss their respective professions and/or whom she or he has observed in the course of their practice.

2. Two official transcript(s) of all post-secondary institutions attended. If still attending university at the time of application, the applicant should send the most recent transcript available from that institution, as well as a list of the courses in which the applicant is currently enrolled, including course marks at the time of application to the program. An official and complete transcript should also be sent as soon as available, even if past the application deadline. If any transcript is not in English or French, an official translation must be provided.

3. Three letters of reference, two of which must be academic references. Where possible, at least two of the letters should be written by professors who taught the applicant in the last two years of university work. These letters must be submitted directly to the School by the referees, either by post, or electronically. Note that the Faculty of Graduate and Postdoctoral Studies will not accept electronically submitted reference letters that are sent via free email accounts such as Yahoo or Gmail.

4. Proof of proficiency in the English language is required at the time of application if English is not the applicant's native language AND the applicant is not a graduate of a Canadian university. Applicants who are non-native speakers of English AND have graduated from a university outside of Canada must submit one of the following: TOEFL, including TSE, (minimum acceptable score for admission is 600 paper form; 100 internet form; 250 computer form); IELTS (minimum acceptable score is 7).

5. Applicants who are non-native speakers of English must also provide a five to ten minute recording of their speech (cassette or CD). This speech sample can be on any topic, as long as it is neither read nor recited. A telephone interview may follow.

It is the applicant's responsibility to ensure that all of these documents are received by the School. No application will be processed until all of the materials listed above have been received.

Students accepting an offer of admission to the Master of Science program in the School of Audiology and Speech Sciences, at the time of acceptance of admission, are required to pay a non-refundable deposit of CAD$200, to be applied to the student's first-term tuition.

Scholarships and Financial Support

Due to changes in the University's policies, the School has only limited funding for first-year graduate students. Whenever possible, students should apply for NSERC, SSHRC, or CIHR scholarships in the October prior to their application to the School. The School will assist outstanding students to apply for support for their second year of study. Other students may qualify for Canada Student Loans, or other awards and financial assistance programs. The School is pleased to document admissions status for students who may be applying for financial assistance.

Master of Science > Degree Requirements

The School of Audiology and Speech Sciences offers an M.Sc. in two disciplines: (1) audiology and (2) speech-language pathology. Programs for each of these disciplines are designed to span 24-36 consecutive months. Prerequisite courses listed above are considered to be an integral part of the School's curriculum. Students who have not completed these foundation courses at the time of admission will be required to do so, or to demonstrate equivalent knowledge, prior to receiving the M.Sc. degree. Please refer to the programs of study (http://www.audiospeech.ubc.ca) for both Audiology and Speech-Language Pathology.

Each student's program of study is approved by the graduate advisor commensurate with the specific disciplinary program and the student's background. For the two disciplines, the programs typically exceed the Faculty of Graduate and Postdoctoral Studies minimum of 30 credits. For Audiology, 45–50 credits of coursework are typically required; students must also complete either a thesis (AUDI 549) or a comprehensive examination. For Speech-Language Pathology, 50–55 credits of coursework are typically required. In addition, completion of the Master of Science degree for each discipline requires: (1) fulfillment of the prerequisite requirements, and (2) completion of at least three clinical internship courses at 68% (B-) or higher.
Electives

The School encourages students to take electives outside their discipline, either within the School or in other departments at the University as their schedule permits. Suitable electives may be offered, for example, by the College of Health Disciplines, Educational Psychology/ Special Education/Counseling Psychology, Nursing, Neuroscience, and Psychology.

Clinical Externships

In their practicum experiences, students provide supervised clinical service to persons with communication disorders. Professional ethics mandate that the School assign students to clinical work only if their level of knowledge, clinical skill, and language competencies are assessed to be satisfactory for clinical work with client/patients. For this reason, student performance is evaluated by the faculty members as a whole prior to the initial externship. To qualify for clinical externship placement, a student must:

1. complete the laboratory portions of clinical courses with a grade of at least 68%;
2. meet the Faculty of Graduate and Postdoctoral Studies requirements for continuation in the degree program; and
3. have received satisfactory evaluations of competency in oral English, both comprehension and production, which is adequate for clinical practice in English. These evaluations are made by faculty members teaching courses with clinical content.

The School is very aware of the need to prepare audiologists and speech-language pathologists who can provide service to a linguistic and culturally diverse population. To this end, we will help non-native speakers of English to meet the third criterion. This may, however, lead to delays in completing the clinical externship requirements and in obtaining the Master of Science degree. Prospective students who wish further advice on this matter should arrange for an interview.

As noted above, to complete the Master of Science degree, all students are required to achieve 68% (B-) or higher in at least three clinical externship courses. Students who initially fail to meet this requirement may apply to retake one or more of these courses. The decision on this application will be made by the School's faculty based upon such criteria as the likelihood of improved performance and the availability of an appropriate practicum site. Finally, students will have some clinical externships in the greater Vancouver area and at least two externship placements will be out-of-town (e.g. elsewhere in the province or out of British Columbia). These out-of-town placements will require temporary relocation outside the Vancouver area and will entail some additional expenses.

Doctor of Philosophy

Admission Requirements

An applicant to the doctoral program should have completed a master's degree, typically in audiology and speech science, psychology, linguistics, or a related discipline. Eligibility for admission will be decided by the Doctoral Studies Committee. The committee will consist of the Graduate Advisor and a minimum of three other full members of the graduate faculty who are full-time faculty at the School. The decision of the committee will be based on the following criteria:

- **Academic Standing**: A first-class (A) average based on relevant graduate and senior undergraduate courses, with first-class standing in at least 18 credits of graduate work.
- **Research Potential**: Evidence of research ability as shown by a Master's thesis or equivalent, and positive evaluations of research potential by three referees, who are themselves researchers.
- **Research Plan**: A detailed statement of research interests and reasons for pursuing advanced study, which is used to match applicant and faculty research interests.
- **Supervisor**: In order for a student to be accepted, a full member of graduate faculty holding an appointment in the School must agree to chair the student's Program Advisory Committee and to supervise the student's dissertation. For the purpose of identifying a prospective supervisor, applicants are strongly encouraged to contact School faculty members whose
program of research is related to the applicant’s proposed research area(s).

Part-time Doctoral Classification is also available. This must be approved at the point of admission.

**Degree Requirements**

The student normally will be recommended for advancement to candidacy when he/she has:

1. completed the residency period required by the Faculty of Graduate and Postdoctoral Studies;
2. completed all coursework and research training as required by the Faculty of Graduate and Postdoctoral Studies and according to the plan set out by the program advisory committee;
3. passed the comprehensive examination;
4. and has a dissertation proposal approved by the Dissertation Committee.

Completion of the degree also requires that the student write a dissertation passed by an examination committee according to the requirements of the Faculty of Graduate and Postdoctoral Studies.

A brochure giving details of this program is available from the School (http://www.audiospeech.ubc.ca).

**Academic Staff**

Professor Emeritus

**D. R. Stapells**, B.A. Hons. (S.Fraser), Ph.D. (Ott.)

Professor Emerita


Associate Professors Emeritus

**B. A. Purves**, B.A. Hons. (S.Fraser), M.Sc (Br.Col.), Ph.D. (Br.Col.)

Assistant Professor Emeritus

**C. E. Johnson**, B.A. (Calif., Berkeley), M.A., Ph.D. (Stan.).

Professors

**V. Ciocca**, Laur. (Padua), M.A., Ph.D. (McG.)

Associate Professors

**P. Colozzo**, B.A. (McG.), B.Sc., M.O.A. (Montr.), Ph.D. (Br.Col.)

**A. Herdman**, B.Sc., M.Sc. (S.Fraser), Ph.D. (Br.Col.)

**L. Jenstad**, B.A. (Qu.), M.A. (W.Ont.), Ph.D. (Wash.)

**S. Marinova-Todd**, B.A. (Tor.), Ed.M., Ph.D. (Harv.)

**N. Shahnaz**, B.Sc. (Tehran), M.Sc., Ph.D. (McG.)


**S. A. Small**, B.Sc. (Br.Col.), M.Sc. (S.Fraser), M.S (Wisc.), Ph.D. (Br.Col.)
Assistant Professors

T. Howe, B.Ed. (Sask.), M.H.Sc. (Tor.), Ph.D. (Qld.), Postgrad. Cert. Tertiary Teaching (Cant.)
S. Skoretz, B.Sc. (Alta.), M.Sc. (Wisc.-White.), Ph.D. (Tor.)

Instructor, Without Review

M. Choi, B.A., M.Sc. (Br.Col.)

Lecturers

E. Sinden, B.Sc. (U. Coll. Cork), M.Sc. (Edin.)

Instructors

S. Brown, B.A. (S. Fraser), M.Sc. (Br. Col.)
G. Mason, B.Sc., M.S.I.P. (Alta.), Ph.D. (Br.Col.)

Adjunct Professors

S. Soli, Ph.D. (Minn.)

Associate Members

G. Bryce, Surgery
G. Carden, Linguistics
B. Gick, Linguistics
P. Mirenda, Education and Counselling Psychology and Special Education
J. Stemberger, Linguistics
J. Werker, Psychology

Affiliate Professor

K. L. Tremblay, B.A. (W. Ont.), M.Sc. (Dal.), Ph.D. (N'western)

Clinical Associate Professors

D. J. Carlson, B.A. (S.Fraser), M.Sc. (Br.Col.)
M. Carrillo, B.Sc. (Northwestern), M.S.P.A. (Wash.)
B. McNeill, B.A., M.A. (W.Wash.)
S. Pijl, B.Ed. (Br.Col.), M.A. (W.Wash.)
L. Rammage, B.A. (Alta.), M.Sc. (Br.Col.), Ph.D. (Wisc.-Mad.)
S. Taylor, B.A., M.Sc. (Br.Col.)

Clinical Assistant Professors

S. Adelman, B.Sc. (McG.), M.Sc. (Br.Col.)
N. Armstrong, B.A. (S.Fraser), M.Sc. (Br.Col.)
E. Baron, B.A., MSLP (Alta.)
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L. Bennett, B.A. (Ott.), M.Sc. (Syr.)
M.C. Biancardi, B.A., M.Sc. (Br. Col.)
E. Brooks, B.A. (W.Ont.), M.Sc. (Br.Col.)
C. Carlaw, B.A., M.A. (W.Wash.)
K. Chase, M.Sc. (Vic.(B.C.)), D.Phi. (Oxf.)
S. Davies, B.A. (Qu.), M.Sc. (Br.Col.)
C. Faraher-Amidon, B.A., M.A. (N. Ill.)
A. O. Fleming, B.A., M.Sc. (Br.Col.)
C. L. Gustin, B.A., M.Sc. (Br.Col.)
I. M. Ishida, B.A.S.L.P. (Sao Paulo), Ph.D. (Nagoya)
B. Lang, B.A. (Tor.), M.Sc. (Br.Col.)
A. MacCallum, B.A., M.Sc. (Br.Col.)
C. Manning, B.A., M.Sc. (Br.Col.)
M. McCormick, B.A. (McG.), M.Sc. (Br.Col.)
C. Moes, B.A. (McG.), M.Sc. (Br.Col.)
H. Neeman, B.A. (Tel Aviv), M.Sc. (Lond.)
A. M. Newroth, B.Sc., M.Sc. (Br.Col.)
D. Platt, B.A. (York(Can.)), M.Sc. (Br.Col.)
C. Reynolds, B.A., M.Sc. (Tor.)
S. Robbins, B.A., M.Sc. (Br.Col.)
S. Scott, B.A. (Qu.), M.Sc. (Br.Col.)
M. Seto Quan, B.A. (Sask.), B.A. (N.Dakota), M.A. (W.Wash.)
G. Shyng, B.A., M.Sc. (Br.Col.)
S. Thom, B.A. (Regina), M.Sc. (Br.Col.)
L. Usher, B.S. (N.Ariz.), M.S. (Idaho)
A. Van Maanen, B.A., M.S. (Minot State U.)

Clinical Instructors

K. D. Abrams, B.Sc. (Qu.), M.Sc. (W.Ont.)
M. Ackert, B.A. (OUC), B.Ed., M.Sc. (Alta.)
M. Adler-Bock, B.A. (S.Fraser), M.Sc. (Br.Col.)
S. Ahmed, M.B.B.S. (Dow), M.Sc. (Wash.), Au.D. (ATSU),
S. Akres, B.A. (S.Africa), M.S.L.P. (Alta.)
E. Albright, B.A., M.Sc. (Br.Col.)
S. Ali, BSLT (Cant.)
J. Amy, B.A. (Br.Col.), M.Sc. (Alta.)
R. Anderson, B.A., M.A. (Br.Col.)
S. Aristizabal, B.A. (Rosario), Master (ECR/INTESEG)
M. Armstrong, B.Sc. (McM.), M.Sc. (Br.Col.)
S. Ashadi, B.A. (York, Can.), M.Sc. (Br.Col.)
J. D. Ashdown, B.A., M.Sc. (Br.Col.)
K. Assie, M.S. (Minot State U.)
J. Bacon, B.A. (Sask.), M.Sc. (Minot State U.)
G. Baer, B.Sc. (Alta.), M.Sc.A. (McG.)
R. Bains, B.Sc., M.Sc. (Br.Col.)
S. Bains, B.A. (Br.Col.), M.A. (Wash.)
J. Baker, M.Sc. (Br.Col.)
S. Baker, B.Sc. (Calg.), M.Sc. (Dal.)
A. Bardsley, B.A. (S. Fraser), M.Sc. (Br.Col.)
K. Barnard, B.A. (T.Rivers), M.Sc.-SLP (Alta.)
C. M. S. Basilio, M.Aud.S.S. (Sao Paulo),
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J. Baylis, B.A. (Br. Col.), M.Sc. (Dal.)
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K. Bennett, M.A. (N.Y.(Buffalo))
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C. Bergen, B.A. (Manit.), Post Bac.(N.Dakota), M.Sc. (Minn.State.Moorhead)
E. Berkley, B.A., M.Sc. (Br.Col.)
L. Best, B.Sc. (Vic.(B.C.)), M.Sc. (Br.Col.)
K. Bingham, B.A. (Manit.), M.Sc. (Br.Col.)
L. Blake, B.A. Hons. (Sask.), M.Sc. (McG.)
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J. D. Duncan, B.Sc. (Vic.(BC)), M.Sc. (Br.Col.)

K. Dunlop, B.A., M.Sc. (Br.Col.)

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G. Grevstad, B.A., M.Sc. (Br.Col.)

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P. Grotowski, B.S., M.Ed. (James Madia)

G. Gumprich, B.Sc. (Sask.), M.H.Sc. (Tor.)

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N. Haines, B.A. (Br.Col.), M.Sc. (Alta.)

K. Handford, B.A. (Br.Col.), M.Litt (St. Andrews), M.Sc. (Br.Col.)

J. Handley, B.Sc., MSLP (Alta.)


T. Hanika, BA, M.A. (W.Wash.)

E. Hansen, B.Sc. (Calg.), M.Sc. (Br. Col.)

K. Hansen, B.A. (Alta.), M.A. (Wash.)
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<tr>
<th>Name</th>
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<tr>
<td>M. Hansen</td>
<td>B.A., M.Sc. (Minot State U.)</td>
</tr>
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<td>R. Hanson</td>
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T. McEachern Hughes, B.A. (N.Dakota), M.A. (Wayne)
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