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**MEMORANDUM**

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<b>ATTENTION</b>	Senate	<b>DATE</b>	November 16, 2011
<b>FROM</b>	Jon Driver, Vice-President, Academic and Provost, and Chair, SCUP	<b>PAGES</b>	1/1
<b>RE:</b>	Faculty of Arts and Social Sciences: Full Program Proposal for a Certificate in the Linguistics of Speech Science (SCUP 11-32R)		

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At its October 26, 2011 meeting SCUP reviewed and approved the Full Program Proposal for a Certificate in the Linguistics of Speech Science in the Department of Linguistics within the Faculty of Arts and Social Sciences.

**Motion**

That Senate approve and recommend to the Board of Governors the Full Program Proposal for a Certificate in the Linguistics of Speech Science in the Department of Linguistics within the Faculty of Arts and Social Sciences.

encl.

c: D. Mellow

X

*Department of Linguistics*  
**FACULTY OF ARTS AND SOCIAL SCIENCES**  
SIMON FRASER UNIVERSITY  
M E M O R A N D U M

**To:** Sarah Dench  
Director, University Curriculum & Institutional Liaison  
Office of the Vice-President Academic  
Simon Fraser University

**From:** Dean Mellow,  
Chair, Undergraduate Curriculum Committee

**Subject:** Revised Full Program Proposal for a Certificate in the Linguistics of Speech Science

**Date:** October 31, 2011

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Dear Sarah Dench,

I am attaching a revised version of the Full Program Proposal for a Certificate in the Linguistics of Speech Science. If you require any further clarifications, please do not hesitate to contact me.

Sincerely,

  
\_\_\_\_\_  
*Undergraduate Chair*  
*Department of Linguistics*



OFFICE OF THE ASSOCIATE VICE-PRESIDENT, ACADEMIC AND  
ASSOCIATE PROVOST

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**MEMORANDUM**

<b>ATTENTION</b>	Senate Committee on University Priorities	<b>DATE</b>	June 3, 2011
<b>FROM</b>	Bill Krane, Chair	<b>PAGES</b>	1/1
<b>RE:</b>	Senate Committee on Undergraduate Studies Faculty of Arts and Social Sciences (SCUS 11-33b)		




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Action undertaken by the Senate Committee on Undergraduate Studies at its meeting of June 2, 2011, gives rise to the following recommendations:

**Motion:**

That SCUP approve and recommend to Senate the Full Program Proposal for the Certificate in Speech Science in the Department of Linguistics within the Faculty of Arts and Social Sciences.

**The relevant documentation for review by SCUP is attached.**



**FACULTY OF  
ARTS AND SOCIAL SCIENCES**

**MEMO**

**TO: Jo Hinchliffe, Secretary  
Senate Committee on Undergraduate Studies**

**FROM: Paul Budra, Chair  
Faculty of Arts and Social Sciences Curriculum Committee**

**RE: Full Program Proposal: Certificate in Speech Science**

**DATE: May 24, 2011**

On May 19, 2011, the Faculty of Arts and Social Sciences Curriculum Committee approved the attached full program proposal for a Certificate in Speech Science. The Notice of Intent was forwarded to SCUP on July 21, 2010.

Would you please place this item on the agenda of the next meeting of SCUS.



:pl  
Att.

Full Program Proposal  
**Certificate in the Linguistics of Speech Science**

Department of Linguistics  
 Simon Fraser University

Executive Summary

The Certificate in the Linguistics of Speech Science provides an understanding of the sound system and grammatical system of language and applies that knowledge to language acquisition, speech-language pathology, and elective topics such as applied phonetics and neurolinguistics. The Certificate is intended for students who have been admitted to Simon Fraser University. These students may major in a variety of areas including Linguistics, Cognitive Science, Communication, French, Health Sciences, Kinesiology, and Psychology.

Some students who complete the Certificate will do so as part of preparation for graduate study in Canada in order to become speech-language pathologists or audiologists. Students who do not continue with graduate study in Canada may work as an assistant to a therapist or assist a family that has a child with special needs. International students who complete the Certificate may return to their home country to pursue graduate level training and/or to work in clinical settings. In addition to speech therapy and rehabilitation, other applications of this Certificate include neurosurgical planning, voice training, and voice authentication.

The proposed Certificate only includes the Linguistics courses that are required or suggested for graduate programs in Speech Pathology or Audiology. Students who apply for those graduate programs will also need to complete courses in other areas such as Psychology and Physics.

The proposed Certificate consists of 18 units of coursework. This advanced, professionally-oriented certificate primarily includes upper division courses. The program will be located at SFU Burnaby. The Certificate will draw only upon existing faculty resources and courses within the Department of Linguistics. No new courses or faculty positions are required.

Evidence of student interest

Within SFU and in Canadian society, the demand for professional language training is very high. Undergraduate students in the Department of Linguistics have repeatedly requested that this Certificate be developed (to the 2009 External Review Committee, to the Undergraduate Curriculum Committee, and to faculty who teach courses about acquisition, phonetics, speech science, and neurolinguistics). The students believe that the Certificate will enhance their prospects for admission to graduate programs in speech-language pathology and audiology, improving their career prospects. Each year, several graduates of SFU Linguistics programs (majors and minors) are accepted into graduate programs in Speech-Language Pathology at the University of Alberta, UBC, and other universities in Canada, the United States, and Australia. In February 2009, Dr. Valter Ciocca (the Director of the UBC School of Audiology and Speech Sciences) gave a presentation at SFU to potential applicants to his program. He supported the creation of this Certificate.

Many SFU graduates assist speech pathologists in clinical settings (hospitals, schools, private practices) or work with families in which a family member requires speech therapy. Many of these students already complete this set of courses to enhance their professional

opportunities. These students believe that the Certificate will enhance their work opportunities in these areas.

The parents of Linguistics students are also keenly interested in having this Certificate available to their children. At the Annual Information Evenings for prospective students and their families, parents have been very enthusiastic about professional language training for their children. Parents in particular were very enthusiastic about the possibility of an undergraduate Certificate that could focus their children toward a possible career in speech sciences. This specific labeling of a student's skills and accomplishments was very attractive to parents as they contemplated whether SFU would be a good choice for their children. In addition, when parents have attended graduation with their children in recent years, the students and their parents have both lamented the absence of a Certificate in the Linguistics of Speech Science that would more clearly identify the skill set of the graduates.

Enrolment plan

It is difficult to predict exactly how many students would complete any new Certificate. In addition to the current strong interest, a formal Certificate in the Linguistics of Speech Science would draw more attention to speech-related courses at SFU, and may encourage more students to explore their interests in this area. For our initial course planning, we estimate that the number of Certificate graduates per year could range from 10 to 50.

This estimated range builds from the number of graduates of the Teaching ESL (English as a Second Language) Linguistics Certificate, which is currently offered by the Department of Linguistics. Between 2004 and 2010, an average of 18.5 students completed the TESL Certificate each year. However, the TESL Certificate is more demanding than the proposed Certificate in the Linguistics of Speech Science in two ways. First, the TESL Certificate includes a challenging supervised practicum course that tends to primarily attract extroverted or mature students who are comfortable teaching in front of a class. Second, acceptance into the TESL Certificate program includes English proficiency requirements that are higher than SFU's minimum English language requirements. For example, admission to SFU may require the completion of the IELTS (International English Language Testing System) examination with a minimum score of 6.0 on the Academic Modules. Approval into the TESL Certificate program requires completion of the IELTS examination with a minimum band score of 8 on the speaking test and an overall score of not less than 7.5. Between 2000 and 2003, before the English proficiency requirements of the TESL Certificate were increased, an average of 59 students completed the program each year. We do not plan to implement additional English language proficiency requirements for the Certificate in the Linguistics of Speech Science because we wish to make the program available to the many international students who may return to their home country and assist in clinical settings where the target language is not English. Overall, this amount of student interest in the TESL Certificate indicates that a large number of students are interested in professional extensions of linguistic study.

Curriculum, Learning Methodologies, and Student Outcomes

Students who complete the Certificate in the Linguistics of Speech Science will develop solid abilities to describe, categorize, and analyze units and patterns within the sound system and grammatical system of language. Those abilities will be used to understand language acquisition, speech-language pathology, and elective topics such as applied phonetics and neurolinguistics. In these courses, students develop research skills, critical thinking and analytical skills, and

independent learning skills. The courses incorporate a variety of empirical research methodologies including the principle-based organization of patterns of sounds and grammatical constructions, instrumental analyses of speech, and cutting-edge neuro-imaging techniques that investigate the neuroanatomy and neurophysiology of language.

### Faculty

The Certificate draws on existing course offerings at SFU Burnaby. The following faculty members will contribute to the program:

- Dr. Alderete (Phonetics, Phonology)
- Dr. Burgess (Phonetics, Language and the Law)
- Dr. Han (Syntax)
- Dr. Hedberg (Syntax)
- Dr. Gerdtz (Syntax)
- Dr. McFetridge (Phonology)
- Dr. Mellow (Acquisition)
- Dr. Munro (Applied Phonetics, Speech Science)
- Dr. Pappas (Syntax)
- Dr. Perry (Phonetics, Phonology)
- Dr. Taboada (Syntax), and
- Dr. Wang (Phonetics, Neurolinguistics, Speech Science).

The large number of faculty associated with the Certificate gives it a durability during study leaves and other leaves of absence. No new faculty positions are required for the proposed Certificate.

### Program Evaluation

Once implemented, the Certificate will be reviewed and evaluated by the Department of Linguistics (Undergraduate Curriculum Committee).

Anticipated program start date: September 2012

## ***Full Program Proposal Appendix A: Course Requirements and Calendar Entry***

### **Certificate in the Linguistics of Speech Science**

The Certificate is for students seeking an introduction to theory and research in the study of speech science.

#### **Program Requirements:**

Certificate program approval must be obtained from the Department of Linguistics. An overall cumulative CGPA of 2.25 and a minimum C grade in LING 220 are required for program approval. Students are encouraged to declare into the Certificate at least one year before graduation.

The Certificate in the Linguistics of Speech Science consists of 18 units as follows:

Students must complete the following 4 courses (12 units)

LING 222-3 Introduction to Syntax

LING 290-3 The Science of Speech

LING 330-3 Phonetics

LING 350-3 First Language Acquisition

Students must complete 2 of the following (6 units)

LING 295-3 Language and the Law

LING 321-3 Phonology

LING 322-3 Syntax

LING 401-3 Topics in Phonetics

LING 411-3 Topics in Applied Phonetics

LING 415-3 Neurolinguistics

#### **Transfer Credit**

A maximum of six units may be transferred from outside of SFU toward this certificate.



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SIMON FRASER UNIVERSITY  
FACULTY OF ARTS AND SOCIAL SCIENCES  
DEPARTMENT OF LINGUISTICS  
UNDERGRADUATE CURRICULUM COMMITTEE

**NOTICE OF INTENT**

1. Credential to be awarded: Certificate in Speech Science
2. Location: SFU Burnaby
3. Faculty: Arts and Social Sciences; Department: Linguistics
4. Anticipated program start date: September 2011
5. Description of the program

*5.1 Aims, goals, and/or objectives*

The Certificate in Speech Science provides an understanding of the sound system and grammatical system of language and then applies that knowledge to language acquisition, speech-language pathology, and elective topics such as applied phonetics and neurolinguistics. Many students who complete the Certificate will do so as part of preparation for graduate study in order to become speech-language pathologists or audiologists. The courses within the Certificate are those linguistics courses that are required by most graduate programs in speech-language pathology or audiology in order to qualify for admission.

*5.2 Anticipated contribution to the mandate and strategic plan of the institution*

The Certificate will enhance the profile of SFU by offering an attractive undergraduate credential that combines existing and related courses that many students already complete to prepare for graduate study. The Certificate will allow students in a variety of disciplines across the university to develop a strong foundation in the study of speech science. The 2009 External Review of the Department of Linguistics recommended that a Certificate in Speech Science be implemented.

*5.3 Target Audience*

The Certificate in Speech Science is intended for students who have been admitted to Simon Fraser University. These students may major in a variety of areas including Linguistics, Psychology, Cognitive Science, French, Communication, Health Sciences, and Kinesiology.

*5.4 Content and summary of requirements for graduation*

Please see Appendix A.

### 5.5 Delivery Methods

The program will be taught through existing courses at the SFU Burnaby campus.

### 5.6 Linkages between the learning outcomes and the curriculum design

The Certificate provides an education in the foundations of speech science, in conjunction with applications to areas such as language acquisition and speech-language pathology. A work experience/work place term is not required for degree completion.

### 5.7 Distinctive characteristics

The Certificate will attract existing students from FASS and other faculties and will enable undergraduates to focus a part of their studies on issues in speech science. The Certificate builds upon the unique strengths of the Department of Linguistics in first language acquisition, applied phonetics, neurolinguistics, and forensic linguistic analysis.

### 5.8 Anticipated completion time in years or semesters

Students will be able to complete the Certificate while they complete their major. Given the streaming of course prerequisites, students will require at least 3 semesters to complete the Certificate.

### 5.9 Enrolment plan for the length of the program

No maximum number of admissions per year has been set. Students will apply to the Department of Linguistics for admission. We estimate that 30 to 60 students per year will complete the Certificate.

### 5.10 Policies on student evaluation

Evaluation will be achieved following the general regulations for the University and the Faculty of Arts and Social Sciences.

### 5.11 Policies on faculty appointments (minimum qualifications)

All courses are presently taught by existing faculty. All continuing faculty hold a Ph.D. Courses may be taught by sessional instructors who must have completed at least an M.A.

### 5.12 Policies on program assessment

All academic units at SFU are subject to external review every six years. The Department will be responsible for maintaining the academic rigor of the curriculum and the quality of instruction.

### 5.13 Level of support and recognition from other post-secondary institutions, (including plans for admissions and transfer within the British Columbia post-secondary education system) and relevant regulatory or professional bodies, where applicable

Practicing speech-language pathologists require a Master's degree. This Certificate is designed to assist students in their preparation for future graduate training.

### 5.14 Evidence of student interest and labour market demand

Undergraduate students have requested that this Certificate be developed (to the Undergraduate Curriculum Committee and to the 2009 External Review Committee). The

students believe that the Certificate will enhance their prospects for admission to graduate programs in speech-language pathology and audiology and therefore improve their career prospects. Many students also assist Speech Pathologists in clinical settings or work with families who have a member who requires speech therapy. Students believe that the Certificate will enhance their work opportunities in these areas.

*5.15 Summary of resources required and available to implement the program*

All courses for this Certificate already exist in the SFU Calendar and are offered on a regular basis.

*5.16 List of faculty members teaching/supervising, what percentage of their teaching will be devoted to the program, and their areas of specialization*

The Certificate draws on existing course offerings at SFU Burnaby. The following faculty members will contribute to the program: Dr. Alderete (Introduction to Linguistic Analysis, Phonetics, Phonology), Dr. Burgess (Introduction to Linguistic Analysis, Phonetics, Language and the Law), Dr. Fee (Acquisition), Dr. Han (Syntax), Dr. Hedberg (Syntax), Dr. Gerdts (Syntax), Dr. Heift (Introduction to Linguistic Analysis), Dr. McFetridge (Phonetics, Phonology), Dr. McRobbie (Phonetics, Phonology), Dr. Mellow (Introduction to Linguistic Analysis, Acquisition), Dr. Munro (Applied Phonetics, Speech Science), Dr. Pappas (Introduction to Linguistic Analysis, Syntax), Dr. Perry (Phonetics, Phonology), Dr. Sosa (Phonetics, Phonology), Dr. Taboada (Syntax), and Dr. Wang (Phonetics, Neurolinguistics, Speech Science).

*5.17 For a program where the intention is to charge a premium fee, a budget developed in collaboration with the dean of the faculty*

N/A

*5.18 Related programs in your own or other British Columbia post-secondary institutions*

The University of British Columbia has a Major and a Minor in Speech Sciences, combining courses from Linguistics, Psychology, and Audiology. The University of Victoria has a B.Sc. in Linguistics, emphasizing courses in experimental phonetics, speech and hearing physiology, psycholinguistics and child language, with extralinguistic requirements in cognitive and developmental psychology, neuropsychology, biology, mathematics, and physics.

*6. Name, title, phone number and e-mail address of the institutional contact person in case more information is required.*

Inquires should be directed to Dr. Dean Mellow, Department of Linguistics, Burnaby Campus. T: 778-782-6678. E: dmellow@sfu.ca

Notice of Intent Appendix A: Course Requirements and Calendar Entry

Certificate in Speech Science

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