

SIMON FRASER UNIVERSITY

*Office of the Vice-President, Academic*

MEMORANDUM

To: Senate From: J. M. Munro  
Chair, Senate Committee  
on Academic Planning

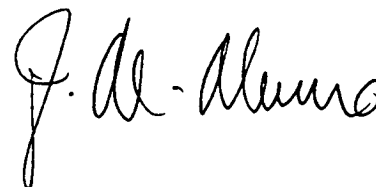
Subject: Department of Linguistics - Changes to Graduate Programs Date: June 15, 1992

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Action undertaken by the Senate Graduate Studies Committee and the Senate Committee on Academic Planning (SCAP 92 - 28) gives rise to the following motion:

Motion: "That Senate approve and recommend approval to the Board of Governors as set forth in S.92 - 48 , the changes to the graduate programs in the Department of Linguistics including the following new courses:

LING 809 - 4	Morphology
LING 820 - 4	Formal Linguistics
LING 821 - 4	Phonetics
LING 896 - 4	Directed Research
LING 897 - 4	Research Seminar."



## PROPOSED CHANGES

**From: MA Program**

### Credit and Research Requirements

Students must select 16 of the total of 20 credit hours from the series LING 800 through 808. All students are further required to take an additional course on an S/U basis, to be chosen by the student and Supervisory Committee.

**To: MA Program**

### Credit and Research Requirements

#### a. Course Work

Students must complete at least 20 credit hours of course work in Linguistics, including LING 800 and LING 801.

#### Rationale:

The Department aims to standardize its M.A. requirements, and ensure that all students take courses in the core areas of Phonology and Syntax. Furthermore, we find that our students are taking a sufficient number of variety of courses, so that the requirement of an additional course on an S/U basis is ~~superfluous~~. <sup>superfluous</sup>.

### New Section

#### b. Thesis

All students in the program must complete an M.A. thesis based on original research. Students must comply <sup>with</sup> the university regulations on completing and defending the thesis.

#### Rationale:

This requirement is already stated in the overview of requirements for degrees in Languages and Linguistics. We repeat this in the entry specifically dealing with Linguistics for clarification.

**From: PhD Program**

**Credit and Research Requirements**

Candidates will complete a program of courses consisting of at least 16 credit hours, with the approval of the Supervisory committee. When the Supervisory Committee is satisfied that the student is adequately prepared, the student will proceed to the comprehensive examination and dissertation as laid down under the program requirements above.

**To: PhD Program**

**Credit and Research Requirements**

**a. Course Work**

Students complete at least 16 credit hours of Linguistics courses, approved by the Supervisory Committee.

**b. Thesis Proposal**

Each candidate is required to develop a Research Proposal for a thesis based on original research. The proposal will define the intended research and the relationship between it and existing scholarship. The proposal will be presented to the Supervisory Committee for approval and presented as a colloquium.

**c. PhD Thesis**

Students must complete the thesis in accordance with University Regulations.

**Rationale:**

We have felt the need in our department to have more input into our students' theses at an earlier stage of preparation. Thus, we will require our students to present a thesis proposal. The thesis proposal has two components. First, it will require the students to prepare a detailed review of previous research on a specific topic. This function is currently met by a comprehensive examination, which is rendered redundant by the thesis proposal. Second, the thesis proposal outlines the original research to be undertaken by the student and presents a partial analysis or pilot study on the topic.

**From:** LING 801-4 Morphology and Syntax

**To:** LING.801-4 Syntax  
LING.809-4 Morphology (New Course)  
(see attached course proposals)

**Rationale:**

There is insufficient time to appropriately cover both areas in a single course.

**New Courses:**

LING.820-4 Formal Linguistics  
LING.821-4 Phonetics  
LING 896-4 Directed Research  
LING 897-4 Research Seminar  
(See attached New Course Proposal)

**Rationale:**

We seek to offer more courses in two central areas of Linguistics-phonetics and morphology. As part of the department's focus on Cognitive Science and Computational Linguistics, we plan to regularly offer a course on Formal Linguistics. Finally, we wish to have two on-going courses providing for Independent Study and a forum to discuss research (the latter to be taken on an S/U basis). We note that most departments in the faculty already have such courses included in their offerings.

**Senate Committee on Graduate Studies  
New Graduate Course Proposal Form**

**1. Calendar Information**

**Department: Linguistics**

Abbrev. Code: LING Course Number: 801

Credit Hours: 4 Vector: 0/4/0

Title of Course: **Syntax**

Calendar Description of Course: Current approaches to syntactic theory.

Prerequisites (or special instructions): **None**

**2. Scheduling**

Estimated Enrollment: **Four**

How frequently will the course be offered? **Once a year.**

Semester in which the course will first be offered? **Currently existing.**

**3. Justification:** Title change from Morphology and Syntax to simply Syntax. Morphology is to be covered in a separate course, LING 809 (see attached).

**4. Resources:**

Which Faculty member will normally teach the course: **DeArmond, Gerdts**

What are the budgetary implications of mounting the course: **None**

Are there sufficient Library resources (append details): **Yes there are.**

- 5. Appended:**
- a) Outline of the Course:
  - b) An indication of the competence of the Faculty member to give the course:
  - c) Library resources:

**Approval:**

Departmental Graduate Studies Committee: Ray B. Gerds

Date: Jan 2, 1992

Faculty Graduate Studies Committee: Chyde R. Seal

Date: Apr 21, 1992

Faculty: W. M. Thorne

Date: Apr 21, 1992

Senate Graduate Studies Committee: Edlin Gu

Date: 8 May 92

Senate: \_\_\_\_\_

Date: \_\_\_\_\_

**Senate Committee on Graduate Studies  
New Graduate Course Proposal Form**

**1. Calendar Information**

**Department: Linguistics**

Abbrev. Code: **LING** Course Number: **809**

Credit Hours: **4** Vector :**0/4/0**

Title of Course: **Morphology**

Calendar Description of Course: **Advanced topics in morphological theory.**

Prerequisites (or special instructions): **LING 423**

**2. Scheduling**

Estimated Enrollment: **Four**

How frequently will the course be offered? **Once Every Other Year**

Semester in which the course will first be offered? **Fall 1992**

**3. Justification:** This course separates Morphology from Syntax which are currently both covered in LING 801. Neither morphology nor syntax can be adequately covered when combined in a single graduate course.

**4. Resources:**

Which Faculty member will normally teach the course: **DeArmond, Gerdts, Lincoln, McFetridge**

What are the budgetary implications of mounting the course: **None**

Are there sufficient Library resources (append details): **Yes there are.**

**5. Appended:**

- a) Outline of the Course:
- b) An indication of the competence of the Faculty member to give the course:
- c) Library resources:

**Approval:**

Departmental Graduate Studies Committee: Don B. Gerdt  
Faculty Graduate Studies Committee: Clyde Reed  
Faculty: W. McFetridge  
Senate Graduate Studies Committee: Eileen Su  
Senate: \_\_\_\_\_

Date: Jan 21 1992  
Date: April 21, 1992  
Date: Apr 21/92  
Date: 8 May 92  
Date: \_\_\_\_\_

# Linguistics 809

## Morphology

### Course Outline

Department of Linguistics

Fall 1993

Course Chairman: Dr. Richard C. DeArmond

Office: CC 8300

Phone: 3545

Course Description: Linguistics 809 is an advanced course covering morphology. The course will cover advanced topics of morphology such as non-linear approaches to morphology, level ordering, constituent structure of words, syntactic affixation, grammatical relations, compounds, clitics, the word, and the place of morphology in grammar.

Course Textbooks: *Morphological Theory* by Andrew Spencer. (Basil Blackwell, Ltd., 1991; Oxford and Cambridge, MA).

*Morphology*, by J. Jensen ((Benjamins, 1978; Mastered).

*Morphology: the descriptive Analysis of Words*, by E. Nida. (University of Michigan Press, 1949; Ann Arbor).

*The Syntax of Words*, by E. Selkirk. (MIT Press, 1986; Cambridge).

Structure of Course: The course will be combined with L423. Three hours will overlap with 423, and one hour will be devoted to advanced topics. There will be one mid term exam and one final paper. The topic of the paper will be selected through consultation.

**Senate Committee on Graduate Studies  
New Graduate Course Proposal Form**

**1. Calendar Information**

Department: **Linguistics**

Abbrev. Code: **LING** Course Number: **820** Credit Hours: **4** Vector: **0/4/0**

Title of Course: **Formal Linguistics**

Calendar Description of Course: **Formal systems and their relation to linguistic methods and theory.**

Prerequisites (or special instructions): **None**

**2. Scheduling**

Estimated Enrollment: **Four**

How frequently will the course be offered? **Once Every Other Year**

Semester in which the course will first be offered? **Spring 1992 1993**

**3. Justification:** This course is to complement LING 400, an undergraduate course on the same topic.

**4. Resources:**

Which Faculty member will normally teach the course: **Hedberg, McFetridge**

What are the budgetary implications of mounting the course: **None**

Are there sufficient Library resources (append details): **Yes there are.**

**5. Appended:**

- a) Outline of the Course:
- b) An indication of the competence of the Faculty member to give the course:
- c) Library resources:

**Approval:**

Departmental Graduate Studies Committee: Don B. Gault  
Faculty Graduate Studies Committee: Clyde Reed  
Faculty: [Signature]  
Senate Graduate Studies Committee: Edna Sue  
Senate: \_\_\_\_\_

Date: Jan 7, 1992  
Date: April 21, 1992  
Date: Apr 21/92  
Date: 8 May 92  
Date: \_\_\_\_\_



# DEPARTMENT OF LINGUISTICS

*Linguistics 820-4*

*Introduction to Formal Linguistics*

## Course Chair:

## Course Description:

This course provides the mathematical background for modern linguistics work in syntax, semantics and general computational linguistics. It introduces set theory, including finite and infinite sets, theory of relations and functions, formal logic including the propositional and predicate calculi, formal language and automata theory. Exercises are designed to develop basic skills and offer an entry to linguistic applications of mathematical concepts.

**Textbook:** Barbara H. Partee, Alice ter Meulen, Robert E. Wall. *Mathematical Methods in Linguistics*.

## Course Requirements

Students are expected to complete 4 assignments and 2 take-home examinations.

## Bibliography

- Barwise, J. and Etchemendy, J. *Tarski's World*. A program for learning predicate logic on the Macintosh computer.
- Chomsky, N. (1957). *Syntactic Structures*. Mouton: The Hague.
- Chomsky, N. (1965). *Aspects of the Theory of Syntax*. Cambridge, Mass.: The MIT Press.
- Chomsky, N. (1981). *Lectures on Government and Binding*. Dordrecht: Foris.
- Copi, I. (1965) *Symbolic Logic*. New York: Macmillan.
- Cresswell, M. (1973) *Logic and Languages*. London: Methuen.
- Cresswell, M. (1985) *Structured Meanings*. Cambridge: The MIT Press.
- Dowty, D. Wall, R. and Peters. S. (1981) *An Introduction to Montague Semantics*. Dordrecht: Reidel.
- Dowty, D. R., Karttunen, L. and Zwicky, A. (eds.) (1985). *Natural Language Processing: Theoretical, Computational and Psychological Perspectives*. Cambridge: Cambridge University Press.
- Fraenkel, A. and Bar-Hillel, Y. (1973). *Foundations of Set Theory*. Amsterdam: North-Holland.
- Gamut, L.T.F. (1991) *Logic, Language and Meaning. Vol. 1 Introduction to Logic*. Chicago: The University of Chicago Press.
- Gamut, L.T.F. (1991) *Logic, Language and Meaning. Vol.2 Intensional Logic and Logical Grammar*. Chicago: The University of Chicago Press.
- Gärdenfors, P. (ed). (1987) *Generalized Quantifiers. Linguistics and Logical Approaches*. Dordrecht: Reidel.
- Gazdar, G. and Pullum, G. K. (1985). "Computationally relevant properties of natural languages and their grammars." *New Generation Computing*. Vol. 3: pp. 273-306.
- Gazdar, G., Klein, E., Pullum, G. and Sag, I. (1985). *Generalized Phrase Structure Grammar*. Oxford: Basil Blackwell.
- Gazdar, G. (1987). "Linguistic applications of default inheritance mechanisms." *Linguistic Theory & Computer Applications*. Ed. M. W. Peter Whitelock Harold L. Somers, Rod L. Johnson and Paul Bennett. London: Academic

Press, pp. 37-67.

- Gazdar, G. (1988). "Applicability of indexed grammars to natural languages." *Natural Language Parsing and Linguistic Theories*. Ed. U. R. a. C. Rohrer. Dordrecht: D. Reidel, pp. 69-94.
- Gazdar, G. and Mellish, C. S. (1987). "Computational linguistics." *New Horizons in Linguistics II*. Ed. R. A. C. John Lyons Margaret Deuchar and Gerald Gazdar. Harmondsworth: Penguin, pp. 225-248.
- Hopcroft, J. and Ullman, J. (1979) *Introduction to Automata Theory, Languages and Computation*. Reading, Mass.: Addison-Wesley Publishing Company.
- Keenan, E. and Faltz, L. (1985) *Boolean Semantics for Natural Language*. Dordrecht: Reidel.
- Manaster-Ramer, A. (1987). *Mathematics of Language*. Amsterdam: John Benjamins.
- Manaster-Ramer, A. and Kac, M. (1990). "The concept of phrase structure." *Linguistics and Philosophy*. Vol. 13: pp. 325-362.
- Montague, R. *Formal Philosophy*. R.H. Thompson. (ed.) New Haven: Yale University Press.
- Oehrle, R., Bach, E. and Wheeler, D. (1988). *Categorial Grammars and Natural Language Structures*. Dordrecht: Reidel.
- Savitch, W., Bach, E., Marsh, W. and Safran-Naveh. (1987). *The Formal Complexity of Natural Languages*. Dordrecht: Reidel.
- Shieber, S. (1985) "Evidence against the context-freeness of natural language", *Linguistics and Philosophy*, vol. 8, pp. 333-343.
- Shieber, S. (1986). *An Introduction to Unification-Based Approaches to Grammar*. Stanford: Center for the Study of Language and Information.
- Shieber, S. M. (1987). "Separating linguistic analyses from linguistic theories." *Linguistic Theory & Computer Applications*. Ed. M. W. Peter Whitelock Harold L. Somers, Rod L. Johnson and Paul Bennett. London: Academic Press, pp. 1-36.

**Senate Committee on Graduate Studies  
New Graduate Course Proposal Form**

**1. Calendar Information**

**Department: Linguistics**

Abbrev. Code: **LING** Course Number: **821** Credit Hours: **4** Vector: **0/4/0**

Title of Course: **Phonetics**

Calendar Description of Course: **Critical comparative presentation of various approaches to and techniques of phonetics.**

Prerequisites (or special instructions): **None**

**2. Scheduling**

Estimated Enrollment: **Four**

How frequently will the course be offered? **Once Every Other Year**

Semester in which the course will first be offered? **Spring 1992 1993**

**3. Justification:** Several phonetics courses have been offered under the Topics series. There is a clear demand from students for a regular graduate course in phonetics. The absence of such a course is conspicuous.

**4. Resources:**

Which Faculty member will normally teach the course: **Roberts**

What are the budgetary implications of mounting the course: **None**

Are there sufficient Library resources (append details): **Yes there are.**

**5. Appended:**

- a) Outline of the Course:
- b) An indication of the competence of the Faculty member to give the course:
- c) Library resources:

**Approval:**

Departmental Graduate Studies Committee: *D. B. Gentry*  
Faculty Graduate Studies Committee: *Clyde Reed*  
Faculty: *[Signature]*  
Senate Graduate Studies Committee: *E. L. Gentry*  
Senate: \_\_\_\_\_

Date: *Jan 2, 1992*  
Date: *Jan 21, 1992*  
Date: *Jan 21, 92*  
Date: *8 May 92*  
Date: \_\_\_\_\_

SIMON FRASER UNIVERSITY  
DEPARTMENT OF LINGUISTICS

GRADUATE COURSE OUTLINE. SEM. 199X.

**\*LINGUISTICS 821-4**  
**PHONETICS.**

**Course Instructor:** Prof. E. Wyn Roberts

**Time:**

**Office:** CC8304: Telephone (291-)3678

**Course Description:**

Fundamentals of anatomy-physiology, and of acoustics. The types and significance of instrumental and experimental work in phonetics. Critical overview of alternative phonetic modes of analysis and theories - physiological, aerodynamic. auditory-perceptual, acoustic. The issue of correlation of physiological, aerodynamic. auditory-perceptual, acoustic analyses. The relationship of phonetics to phonology in particular and to linguistics in general. Specific issues: traditional segmentation and classification, related to linear vs. so-called "non-linear" (multiplanar) approaches in phonology. Prosodic features including pitch, tone/intonation, rhythm (stress, accent, timing, syllable, foot, etc.), etc.) Relation of prosodic features to phonology and grammar.

**Required Texts:**

Catford, J. C. (1977) **Fundamental Problems in Phonetics.**, Edinburgh University Press, Edinburgh.

Daniloff, Raymond, *et al.* (1980) **The Physiology of Speech and Hearing: An Introduction.**, Prentice-Hall, Inc., Englewood Cliffs, New Jersey.

Ladefoged, P. (1962) **Elements of Acoustics Phonetics.**, University of Chicago Press, Chicago.

**Course Grading:**

Term Paper on a topic to be selected through consultation.

## **SAMPLE WEEK-BY-WEEK BREAKDOWN.**

### **WEEK 1.**

Introduction- "definition" of Phonetics. Various approaches.

### **WEEK 2.**

Phonetics as the study of human physiological behaviour. The establishment of the Phonetic System.

### **WEEK 3.**

Specific Instrumental Phonetics - Acoustic vs. Physiological. The issue of **CORRELATION**. Impressionistic Phonetics - Ear- and Eye-training. Spectrographic analysis (Lab work.).

### **WEEK 4.**

Spectrographic analysis (Lab work.). Continuation.

### **WEEK 5.**

Continuation.

### **WEEK 6.**

Continuation. Variability in so-called "phonetic systems" /charts. Understanding the reasons. Empiricism in Phonetics - and hence in Linguistics (Phonology). Phoneticians' lethargy - and the Redundancy Myth. Lethe, Myth, and Theory - the **Q** -roles of Phonetics!

### **WEEK 7.**

The questions of Methodology and Theory, Universalism, Naturalism, etc.. Consonants and Vowels - the various "systems". "articulatory" vs. "auditory"/"acoustic" primacy in Phonetic Classification. **CORRELATION** again.

### **WEEK 8.**

Continuation.

### **WEEK 9.**

The nature of phonetic-linguistic characterisation. What is the relationship of Phonetics and Linguistics?

### **WEEK 10.**

Continuation. The nature of "data" in Phonetics and Linguistics.

### **WEEK 11.**

Linguistic levels (Phonology, Syntax, etc.) and Phonetics. Pitch and Intonation in particular.

### **WEEK 12.**

Continuation.

### **WEEK 13.**

Epilogue-Prologue.

**Senate Committee on Graduate Studies  
New Graduate Course Proposal Form**

**1. Calendar Information**

**Department: Linguistics**

Abbrev. Code: LING Course Number: 896

Credit Hours: 4 Vector:

Title of Course: **Directed Research**

Calendar Description of Course: **Supervised research on specialized topics.**

Prerequisites (or special instructions): **None**

**2. Scheduling**

Estimated Enrollment: **Variable**

How frequently will the course be offered? Every semester;; offered by arragement.

Semester in which the course will first be offered? **Fall 1992**

**3. Justification:** This course provides an opportunity ffor individual study on a topic of the student's choice, under the guidance of a faculty member.

**4. Resources:**

Which Faculty member will normally teach the course: **Variable**

What are the budgetary implications of mounting the course: **None**

Are there sufficient Library resources (append details): **Yes there are.**

**5. Appended:**

- a) Outline of the Course:
- b) An indication of the competence of the Faculty member to give the course:
- c) Library resources:

**Approval:**

Departmental Graduate Studies Committee: Don B. Feltz  
Faculty Graduate Studies Committee: Clyde R. Seal  
Faculty: [Signature]  
Senate Graduate Studies Committee: Ellen Jan  
Senate: \_\_\_\_\_

Date: Jan 2, 1992  
Date: Apr 21, 1992  
Date: Apr 21/92  
Date: 8 May 92  
Date: \_\_\_\_\_

**Senate Committee on Graduate Studies  
New Graduate Course Proposal Form**

**1. Calendar Information**

**Department: Linguistics**

Abbrev. Code: **LING** Course Number: **897**

Credit Hours: **4** Vector:

Title of Course: **Research Seminar**

Calendar Description of Course: **Critical evaluation of research presented by students and faculty.**

Prerequisites (or special instructions): **None, to be taken for satisfactory/unsatisfactory grade only.**

**2. Scheduling**

Estimated Enrollment: **Five**

How frequently will the course be offered? **Once a year**

Semester in which the course will first be offered? **Fall 1992**

**3. Justification:** This course provides a forum for presentation and discussion of ongoing research.

**4. Resources:**

Which Faculty member will normally teach the course: **Variable**

What are the budgetary implications of mounting the course: **None**

Are there sufficient Library resources (append details): **None are needed.**

**5. Appended:**

- a) Outline of the Course: **Not applicable**
- b) An indication of the competence of the Faculty member to give the course: **N/A**
- c) Library resources: **N/A**

**Approval:**

Departmental Graduate Studies Committee: _____	Date: <u>Jan 3, 1992</u>
Faculty Graduate Studies Committee: _____	Date: <u>Apr 21, 1992</u>
Faculty: _____	Date: <u>Apr 21/92</u>
Senate Graduate Studies Committee: _____	Date: <u>8 May 92</u>
Senate: _____	Date: _____

SIMON FRASER UNIVERSITY  
W.A.C. BENNETT LIBRARY  
MEMORANDUM

**To:** Alison Watt  
Secretary, SCAP

**From:** Sharon Thomas  
Library

**Subject:** Linguistics 820, 821

**Date:** June 22, 1992

**cc:**

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I agree with the assessments of the Department of Linguistics and believe that these two courses will be reasonably well supported by the present collection. Both subjects (formal linguistics and phonetics) are covered by current approval plans and ongoing needs should be met automatically.

*Sharon Thomas*