

FOR INFORMATION

SIMON FRASER UNIVERSITY

MEMORANDUM

To: Senate

From: J.W.G. Ivany
Chair, SCAP

Subject: Cognitive Science Program -
Curriculum Changes

Date: November 17, 1988

Acting under delegated authority SCUS approved curriculum changes as set forth in S.88-58 to the Cognitive Science Program.

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**MAJOR IN COGNITIVE SCIENCE
LOWER DIVISION REQUIREMENTS
Basic Courses (25-26 hours)**

Linguistics:

LING 100-3
LING 130-3

Communication and Language
Practical Phonetics

Linguistics:

For students who choose Linguistics as one of the three disciplines
at the intermediate level:

LING 100-3
LING 130-3

Communication and Language
Practical Phonetics

For students who do not choose Linguistics at the intermediate
level:

LING 100-3

Communication and Language

Philosophy:

PHIL 100-3
OR
PHIL 110-3

Knowledge and Reality

Philosophy:

PHIL 100-3
OR
PHIL 110-3

Knowledge and Reality

Introduction to Philosophical Concepts
and Reasoning
History of Philosophy I

Introduction to Philosophical Concepts
and Reasoning

PHIL 150-3
OR
PHIL 151-3

History of Philosophy II

Intermediate Courses (22-25 hours)

Philosophy:

PHIL 210-3
PHIL 244-3

Elementary Formal Logic I
Introduction to the Philosophy of Natural
and Social Science

Intermediate Courses (20-25 hours)

Philosophy:

PHIL 210-4

Elementary Formal Logic I

Rationale

The goal of these changes is to increase accessibility to the program by reducing the very heavy lower division load on majors and honors students. Changes were made by assessing the direct relevance of course content to the program in general, deleting those of lesser relevance.

Note: only those portions of the requirements proposed for change are listed here.

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UPPER DIVISION REQUIREMENTS (30-31 hours)

Psychology:

Any three of:

PSYC 302-3
PSYC 320-3
PSYC 366-3
PSYC 367-3

Learning
Cognitive Processes
Language Development
Experimental Psycholinguistics

Psychology:

Any THREE (3) of:

PSYC 303-3
PSYC 320-3
PSYC 325-3
PSYC 366-3
PSYC 367-3

Perception
Cognitive Processes
Memory
Language Development
Experimental Psycholinguistics

Computing Science:

CMPT 384-3
CMPT 410-3
CMPT 413-3

Symbolic Computing
Artificial Intelligence Survey
Computational Linguistics

Computing Science:

CMPT 383-3
OR
CMPT 384-3

Comparative Programming Languages
Symbolic Computing

Plus any TWO (2) of:

CMPT 410-3
CMPT 411-3
CMPT 412-3
CMPT 413-3

Artificial Intelligence Survey
Knowledge Representation
Computational Vision
Computational Linguistics

Rationale

The addition of additional options for majors in Computing Science and Psychology will add flexibility to the upper-division requirements, thereby making course selection and planning more realistic in these heavily-enrolled subjects. The courses added are either relatively new in their home departments, or ones which are relevant to the goals of the program, but were omitted in the original design of the curriculum.

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HONORS PROGRAM IN COGNITIVE SCIENCE

HONORS PROGRAM IN COGNITIVE SCIENCE

OPTION A:

A student must fulfill the requirements for a major in Cognitive Science and choose

COGS 490-5 Honors Project I and
COGS 491-5 Honors Project II.

OPTION A:

A student must fulfill the requirements for a major in Cognitive Science, and choose the courses listed below for one of the disciplines, and choose

COGS 490-5 Honors Project I and
COGS 491-5 Honors Project II.

Rationale

This is an editorial clarification of the requirements, not a substantive revision. Honors students specialize in one of the constituent disciplines.

Computing Science:

MACM 300-3 Formal Languages and Automata with Applications
CMPT 383-3 Comparative Programming Languages
MACM 402-3 Automata and Formal Languages
CMPT 419-3 Topics in Artificial Intelligence

Computing Science:

MACM 300-3 Formal Languages and Automata with Applications
MACM 402-3 Automata and Formal Languages

Plus any TWO (2) of the following courses which have not been taken previously:

CMPT 383-3 Comparative Programming Languages
CMPT 384-3 Symbolic Computing
CMPT 411-3 Knowledge Representation
CMPT 412-3 Computational Vision
CMPT 413-3 Computational Linguistics
CMPT 419-3 Topics in Artificial Intelligence

Linguistics:

LING 401-3 Advanced Phonetics
LING 403-3 Advanced Phonology
LING 405-3 Advanced Syntax
LING 406-3 Advanced Semantics

Linguistics:

LING 403-3 Advanced Phonology
LING 405-3 Advanced Syntax
LING 406-3 Advanced Semantics
LING 440-3 History and Philosophy of Linguistics

Continued...

Note: only those portions of the requirements proposed for change are listed here.

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Psychology:

PSYC 303-3
PSYC 351-3
PSYC 425-5

Perception
Child Psychology
Language and Thinking

Psychology:

Any THREE (3) of the following courses which have not been taken previously:

PSYC 302-3
PSYC 303-3
PSYC 351-3
PSYC 360-3
PSYC 381-3
PSYC 425-5

Learning
Perception
Child Psychology
Social Psychology
Introduction to Physiological Psychology
Language and Thinking

Rationale

The same addition of options to requirements is proposed for the Honors program as for the Major program, with even further options added in Psychology. (see the rationale on p. 2 of this submission). In addition, LING 440 is substituted for LING 401; the former is more directly relevant to the program in content.

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Cognitive Science Calendar Changes