

SIMON FRASER UNIVERSITY

S. 430

MEMORANDUM

To Dr. Kelsey

From Mr. H. M. Evans, Secretary
Executive Committee
Senate Committee On Graduate Studies

Subject

Date October 13, 1970

This is to advise that the Executive Committee of the Senate Committee on Graduate Studies at their meeting on October 6, 1970 approved the Faculty of Science graduate course - Chemistry 812-2 and that the course be forwarded to Senate for approval.

H. M. Evans

c.c. Dr. J. M. Webster

Encls.
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SIMON FRASER UNIVERSITY

EGS. 164

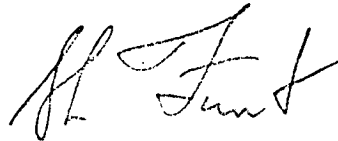
MEMORANDUM

Mr. H. M. Evans, Registrar and
Secretary to Senate
Subject: New Graduate Course Proposal in
Chemistry

From: B. L. Funt
Dean of Science
Date: September 22, 1970
Our File G-2-8

At its meeting of September 21st, the Faculty of Science approved a new graduate course proposal in Chemistry, Chem 812-2, Crystal Structure Analysis (II). This course had been previously considered and recommended by the Faculty of Science Graduate Studies Committee.

I would appreciate it if you would ensure that this proposal is considered at the earliest opportunity by the Executive Committee of the Senate Committee on Graduate Studies and subsequently by Senate.



B. L. Funt

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cc: Dr. T. N. Bell
Miss M. McGinn

SIMON FRASER UNIVERSITY

EGS. 164

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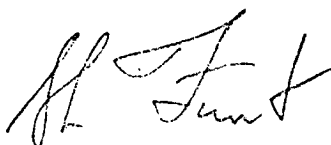
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B. L. Funt

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cc: Dr. T. N. Bell
Miss M. McGinn

REPORT OF GRADUATE STUDIES COMMITTEE

A NEW CHEMISTRY GRADUATE COURSE PROPOSAL

Details of the chemistry course proposal for the new course Chemistry 812-2 Crystal Structure Analysis (II) were considered by the Faculty Graduate Studies Committee at its meeting of May 26th. It is recommended that this course be approved by Faculty and forwarded to the Senate.

B. L. Funt

SIMON FRASER UNIVERSITY

MEMORANDUM

B.L. Funt, Dean of Science

From T.N. Bell, Acting Chairman

Department of Chemistry

Subject New Chemistry Graduate Course
Proposal

Date April 1st, 1970

Attached is a proposal from the Department of Chemistry for a change in the calendar description for Chem 811-3, Crystal Structure Analysis, and the introduction of a new, two unit course Chem 812-2, Crystal Structure Analysis (II).

The principal justification for this change is that it has never been possible to cover all the material in the present calendar description for 811-3. Therefore this part has been detached and made the subject of a separate course. We see no reason to renumber Chem 811 in that the course as given will remain the same.



T.N. Bell

TNB:sjs

c.c.

D. Sutton, Chairman
Department Graduate Studies
Committee



Approved by Faculty Graduate Studies
Committee: - APR 23 1970

New Graduate Course Proposal

Summary and Calendar Information

1. Replace the present title and course description for Chem 811-3
by

Chem 811-3 Crystal Structure Analysis I

Point groups, space groups, periodic structures with atoms in general and special positions. The crystal as a 3-dimensional diffraction grating; the Laue conditions; Bragg's Law. Single crystal methods with X-rays. Electron density as the transform of structure amplitudes. Fourier maps. An introduction to the phase problem. Structure refinement and accuracy assessment.

2. Add the new course

Chem 812-2 Crystal Structure Analysis II

The phase problem and its solution by direct and vector space techniques. Neutron and electron diffraction: Application of these techniques to problems of the solid state.

Justification

The change represents an attempt to revise an initially over-ambitious course description for the present Chem 811-3. It has never been possible to cover all the material intended within the 3 unit course. We would still like to have the additional material in the graduate program to meet the needs of chemistry students interested in problems of the solid state (and possibly some physics students also), and to indicate that the Department has the teaching capability for this material. The proposed Chem 812-2 is therefore comprised of this. The new description for Chem 811-3 simply represents an accurate account of what has in fact been the content of the lectures to date.

Prerequisites None. Students intending to take Chem 811-3 will be advised as to the suitability of their background.

Enrolment and Scheduling

Estimated enrolment:	811	5 students
	812	5 students
Frequency:	811	about once a year
	812	about once every 2 years according to demand
Next offering:	811	presently in program
	812	Spring 1971

Budgetary and space factors

Faculty to teach courses 811-3 and 812-2: F. Einstein

Special space and/or equipment required: None

Other budgetary implications: None

Faculty of Science Graduate Studies Committee

Faculty of Science

Executive Committee, Senate Committee on
Graduate Studies

Senate

May 26, 1970
September 21, 1970
Oct 6, 1970.
