

# SIMON FRASER UNIVERSITY

S.71-59

## MEMORANDUM

SENATE

To.....

From..... B. L. FUNT

DEAN OF SCIENCE

COURSE CHANGES - S.71-59

Subject.....

Date..... APRIL 22, 1971

### MOTION:

"That the deletion of Chemistry 231-3 and 331-3  
and the addition of Chemistry 232-3 and 332-3 as  
outlined in Paper S.71-59 be approved."

If approved, the following motion will be made:

### MOTION:

"That Senate suspend its rules with regard to the  
two semester time lag requirement for the offering  
of courses in order that Chemistry 232-3 be first  
offered in the Fall 1971 Semester."

# SIMON FRASER UNIVERSITY

S. 71-59

## MEMORANDUM

Mr. Evans

From Dr. B.L. Funt

Secretary of Senate

Dean of Science

Subject COURSE CHANGES

Date April 22, 1971

The enclosed course changes have been approved by the Undergraduate Curriculum Committee, of the Faculty of Science, and by the Executive Committee acting on behalf of the Faculty of Science, at its meeting of April 20th, 1971. The changes are minor and represent a reordering of course content in two courses in the Department of Chemistry. They are submitted to Senate for approval.

BLF:dep

encl.

*B.L. Funt*

SENATE PAPERS

Dr. T.N. Bell, Acting Chairman  
Department of Chemistry

101  
Dr. E.L. Funt  
Dean of Science  
March 3, 1971

This will acknowledge receipt of your letter of the 25th of February,  
and the submission of course changes for Chemistry 231 and 331.

This material will be brought to the next meeting of the Undergraduate  
Curriculum Committee. However, it will now not be possible to bring  
material to a meeting of Senate before May.

BLF:dep

SENATE PAPERS

# SIMON FRASER UNIVERSITY

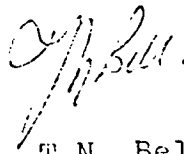
## MEMORANDUM

|              |                      |           |                                 |
|--------------|----------------------|-----------|---------------------------------|
| To.....      | Dean of Science..... | From..... | T.N. Bell, Acting Chairman..... |
|              |                      |           | Department of Chemistry.....    |
| Subject..... | Course Changes.....  | Date..... | 25th February, 1971.....        |

I submit documentation for the deletion of two of our present core courses, Chemistry 231 and Chemistry 331, and for their substitution by two new courses, Chemistry 232 and Chemistry 332.

These changes arise from the revision of Chemistry 102 and 103 which were substituted by the new courses 104 and 105.

We would like to institute these changes in steps with the introduction of Chemistry 232 in the Fall 1971 and 332 in the Spring 1972. While this does not comply with the lead time specified by Senate for new courses, the present proposals are minimal and simply involve a revision of the course content of two old courses. Thus I see no reason why the present proposals cannot be implemented as requested.



T.N. Bell

TNB:mlh

cc: L.K. Peterson

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*Rec'd  
Feb 25/71*

## FACULTY OF SCIENCE

### NEW COURSE PROPOSAL

#### I

##### CALENDAR INFORMATION

Department: Chemistry

Course Number: 232-3

Title: The Chemistry of Nontransition elements

Description: The detailed chemistry of nontransition elements and their compounds, in terms of fundamental concepts of periodicity of properties, valence, ionization potential, electron affinity, electronegativity, stability of oxidation states, bonding, structure and stereochemistry.

Credit Hours: 3

Vector Description: 3-1-0

Pre-requisite(s): Chem 105-3

#### II

##### ENROLMENT AND SCHEDULING

Estimated Enrolment: 25-35 students

Semester Offered: every semester

When course will first be offered: Under existing Senate regulations, the earliest offering of this course would be 1972-1; however, for the purpose of providing a smooth transition for our current Chem 105 students, it would be advantageous to first offer Chem 232 in 1971-3.

#### III

##### JUSTIFICATION

A. What is the detailed description of the course including differentiation from lower level courses, from similar courses in the same department and from courses in other departments in the University?

This course, Chem 232-3, and Chem 332-3, represent a revision of the presentation and content of the current Chem 231-3 and 331-3, a revision necessitated by a previous remodelling of the freshman courses Chem 104-3 and Chem 105-3. Chemistry 232-3 is a logical and comprehensive extension of the knowledge and concepts encountered in the freshman programme.

B. What is the range of topics that may be dealt with in the course?  
See I, "Description".

C. How does this course fit the goals of the department?

Chem 232-3 will constitute a core course in the Majors and honours programmes in Chemistry.

D. How does this course affect degree requirements?

No effect.

E. What are the calendar changes necessary to reflect the addition of this course?

Delete Chem 231-3; add Chem 232-3.

F. What course, if any, is being dropped from the calendar if this course is approved?

Chem 231-3

G. What is the nature of student demand for this course?

Chemistry majors and honours students, and other students (e.g. Biochemists, Biologists, Physicists) desiring a detailed knowledge of the chemistry of the Periodic Table.

H. Other reasons for introducing the course.

#### IV BUDGETARY AND SPACE FACTORS

A. Which faculty will be available to teach this course?

Current Faculty in inorganic chemistry, Drs. Tuck, Einstein, Peterson and Sutton.

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B. What are the special space and/or equipment requirements for this course?

No special requirements, since this course essentially replaces Chem 231-3.

C. Any other budgetary implications of mounting this course:

No other budgetary implications.

APPROVAL -

Faculty Undergraduate Curriculum Committee:

Faculty

*April 13, 1971*  
*Faculty Education Committee*

Senate:

*SENATE*

FACULTY OF SCIENCE

NEW COURSE PROPOSAL

I CALENDAR INFORMATION

Department: Chemistry

Course Number: 332-3 Title: The  
Chemistry of Transition Elements

Sub-title or Description:

The Chemistry of transition elements, lanthanides, and actinides;  
the nature of ligands, and the stability and structure of complexes;  
ligand field theory, spectrochemistry, magnetochemistry.

Credit Hours: 3

Vector Description: 3-1-0

Pre-requisite(s): Chem 232

II ENROLMENT AND SCHEDULING

Estimated Enrolment: 25

Semester Offered (e.g. Yearly, every Spring; twice yearly, Fall and  
Spring): Fall and Spring

When course will first be offered: 1972-1 or 1972-2 (see discussion of  
offering for Chem 232-3)

III JUSTIFICATION

- A. What is the detailed description of the course including differentiation  
from lower level courses, from similar courses in the same department  
and from courses in other departments in the University?  
As stated for Chem 232-3, the remodelling of the freshman  
programme necessitated revision of the 200/300 level courses  
in inorganic chemistry. Chem 332 assumes of knowledge of  
fundamental principles of chemistry; it is a specialized course  
dealing with the descriptive and theoretical chemistry of  
transition elements at an advanced level.
- B. What is the range of topics that may be dealt with in the course?

See "I"

C. How does this course fit the goals of the department?  
Core course in majors and honours programme in chemistry.

D. How does this course affect degree requirements?  
No effect.

E. What are the calendar changes necessary to reflect the addition of this course?  
Delete Chem 331-3; add Chem 332-3; delete "The chemistry of lanthanides and actinides, including separation methods", from the calendar description of Chem 432-3.

F. What course, if any, is being dropped from the calendar if this course is approved?  
Chem 331-3

G. What is the nature of student demand for this course?  
Majors and honours students in chemistry.

H. Other reasons for introducing the course.

#### IV

##### BUDGETARY AND SPACE FACTORS

A. Which faculty will be available to teach this course?  
Drs. Tuck, Einstein, Peterson and Sutton

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B. What are the special space and/or equipment requirements for this course?

No special requirements.

C. Any other budgetary implications of mounting this course:

No other budgetary implications.

APPROVAL - Faculty Undergraduate Curriculum Committee:

April 13, 1971.

Faculty: (by Executive Committee) April 20, 1971.

Senate:

SENATE