

FACULTY OF SCIENCE

NEW COURSE PROPOSAL

I CALENDAR INFORMATION

Department: Chemistry

Course Number: 104-3 Title:

Sub-title or Description: General Chemistry I - Atomic structure and chemical periodicity. The chemical bond. Intermolecular forces. Molecular structure and reactivity. Chemistry of hydrogen, alkali metals and alkaline earths. Halogens. Carbon. The periodic table. Gases, liquids, solutions, solids.

Credit Hours: 3

Vector Description: (3-1-0)

Pre-requisite(s): B.C. High School Chemistry 12 or equivalent, or Chemistry 101-3. Mathematics 151-3 should ordinarily precede or be taken concurrently. Chemistry 115-2 is ordinarily taken concurrently by students intending to proceed to 200 level Chemistry courses.

II

ENROLMENT AND SCHEDULING
Estimated Enrolment: Fall 120 Spring 75 Summer 30

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

Every semester.

When course will first be offered: Fall '70.

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?

Chemistry 104-3 and Chemistry 105-3 replace the present courses Chemistry 102-3 and 103-3; 104 - 105 represent an integrated freshman sequence which contains more comparative chemistry (at the expense of various aspects of physical chemistry) than the present courses.

The sequence through Chem 251 for students with Chemistry to B.C. Grade 12 becomes 104 - 105 - 251. Students without high school chemistry enter at

B. What is the range of topics that may be dealt with in the course? Chem 101 before proceeding to 104.

See course content under I above.

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

Hopefully, a better overview of chemistry than the present Chem 102.

D. How does this course affect degree requirements?

No change.

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

Deletion of present Chem 102 description. Insertion of Chem 104 description as above.

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

Chem 102-3

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

as for Chem 102-3

H. Other reasons for introducing the course.

BUDGETARY AND SPACE FACTORS

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

as for Chem 102-3, but all faculty could teach this.

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

None

C. Any other budgetary implications of mounting this course:

No

APPROVAL - Faculty Undergraduate Curriculum Committee: MARCH 31, 1970

Faculty: APRIL 20, 1970

Senate: