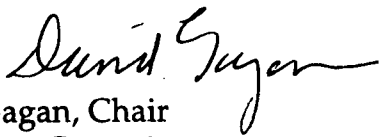


SIMON FRASER UNIVERSITY

MEMORANDUM

To: Senate

From:

  
D. Gagan, Chair  
Senate Committee on  
Academic Planning

Subject: Curriculum Revisions  
Faculty of Science

Date:

December 11, 1995

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Action undertaken by the Senate Committee on Undergraduate Studies and the Senate Committee on Academic Planning gives rise to the following motion:

**Motion:**

"that Senate approve and recommend approval to the Board of Governors the curriculum revisions for the Faculty of Science as set forth in S.96-4 as follows:

New course: SCI 300-3 Science and its Impact on Society."

**Agreement has been reached between the Faculty and the Library in the assessment of library costs associated with the new course.**

SENATE COMMITTEE ON UNDERGRADUATE STUDIES  
NEW COURSE PROPOSAL FORM

1. Calendar Information

Department: Chem

Abbreviation Code: SCI Course Number: 300 Credit Hours: 3 Vector: 3-1-0

Title of Course: **Science and its Impact on Society**

Calendar Description of Course: The impact of Science in our society. This course introduces upper level university students to all facets of Science and their resulting technologies. Governmental policies often involve far-reaching scientific/technological decisions and this course attempts to provide a scientific perspective to help achieve rational and effective policies.

Nature of Course: (Lecture/Tutorial). Upper levels Elective for Non-Science Students

Prerequisites (or special instructions) *Prerequisites 60 credit hours. Not open to students in the Faculty of Science or the Schools of Computing Science, Engineering Science and Kinesiology.*

What course (courses), if any, is being dropped from the calendar if this course is approved?

None

2. Scheduling

How frequently will the course be offered? Once per year

Semester in which the course will first be offered: 97-1

Which of the present faculty would be available to make the proposed offering possible?

Slessor, D'Auria

3. Objectives of the Course This course is designed specifically for non-science upper level university students to broaden their understanding and appreciation of Science. Our future leaders will emerge from these educated individuals who recognize the problems facing our technological society. This course will provide an understanding of the interactive nature of science and provide a framework for investigating problems critical to our survival. This will be accomplished through lecture/video/group presentations.

4. Budgetary and Space Requirements (for information only)

What additional resources will be required in the following areas?

- Faculty None
- Staff None
- Library None
- Audio Visual Requires use of electronically-competent lecture facilities
- Space None
- Equipment Videos and players

5. Approval

Date: Aug 3 1995      19 Oct 95      Dec 6 1995

[Signature]      [Signature]      [Signature]

Department Chairman      Dean      Chairman, Scus

## Science 300 - 3, Science and its Impact on Society

A course designed specifically for, and limited to, non-science upper level university students to broaden their understanding and appreciation of Science. A format of 2 - 2 hour sessions per week, including a presentation of group projects (contact hrs would be ~ 3 hrs lecture, 1 hr tutorial and presentation/week). In addition to the presentation, students will prepare a term paper, both contributing to the final grade.

### Outline

<u>Week</u>	<u>Topic</u>
1	Measurement Scales and Numbers
2	Forms of Matter
3	Chemical Bonding, Ionic to Covalent
4	Metals, Inorganics, Organics
5	Energy Sources and Pollution
6	Energy Utilization
7	Electricity
8	Electronics
9	Probability
10	Biochemistry and Molecular Biology
11	Organisms
12	Cosmology to Evolution
13	Synopsis

Enrolment will be limited to 60 - 70 students in the first offering (97-1). Once the mechanics of presenting the course are worked out, the enrolment will be increased.

KnS  
6/95