

FACULTY OF SCIENCE

NEW COURSE PROPOSALI CALENDAR INFORMATION

Department: Mathematics

Course Number: 150-3 Title: Calculus for
Social Sciences.

Sub-title or Description:

Introduction to those concepts of differential calculus which are of value in the social sciences.

Credit Hours: 3

Vector Description: (3-1-0)

Pre-requisite(s): Math 12 (B.C. High Schools) or permission of the Department.

II ENROLMENT AND SCHEDULING

Estimated Enrolment: 50 per offering

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

Yearly, Fall or Spring . More often if demand justifies it.

When course will first be offered:

Spring 1971

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?

The course will be similar to Math 151-3. However, the examples used in the teaching of the course will be drawn from the social sciences and certain topics whose applications are chiefly in physical science will be replaced by topics of more interest to social scientists.

- B. What is the range of topics that may be dealt with in the course?

Those topics normally taught in a first semester of calculus, with topics such as hyperbolic functions omitted and replaced by partial derivatives.

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

It is part of its service functions.

D. How does this course effect degree requirements?

No change in Faculty of Science requirements. The course may be required for students in some departments of the Faculty of Arts. (e.g. Economics and Commerce).

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

New entry.

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

None.

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

Many students in the areas of Psychology, Economics etc. feel a need for some training in calculus but find that the Math 151-3 course is too rigorous and is oriented toward physical science.

H. Other reasons for introducing the course.

It was requested by the Department of Economics and Commerce, and they may require their students to take it.

IV

BUDGETARY AND SPACE FACTORS

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

Any member of the Mathematics Department

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

None.

C. Any other budgetary implications of mounting this course:

None.

APPROVAL - Faculty Undergraduate Curriculum Committee: **MARCH 31, 1970**

Faculty: **APRIL 20, 1970**

Senate:

SIMON FRASER UNIVERSITY

DEPARTMENT OF
ECONOMICS AND COMMERCE



BURNABY 2, BRITISH COLUMBIA

Telephone 291-3111 Area code 604

February 24, 1970

Undergraduate Studies Committee
Faculty of Science
c/o Mr. T. King
Office of the Dean of Science
Simon Fraser University

Dear Sirs:

I was recently talking to Dr. D. Mallory regarding various courses offered by the Mathematics Department. He suggested that I may wish to write this letter to you, expressing the Department of Economics and Commerce's present intentions regarding such courses.

Our Department's Undergraduate Curriculum Committee has expressed a particular interest in two mathematics courses: Math 106-3, Introduction to Computing and Math 151-3, Calculus I. The committee has even passed a resolution making the latter course compulsory for all our majors and honours students. This requirement will go into effect with the 1971-72 calendar if it passes a review at one of our departmental meetings.

The Mathematics Department has told us that they are attempting to offer a separate course in calculus designed particularly for social scientists. We would desire such a course (especially if we require calculus), because it could be made more meaningful for our students if the example problems were taken from business, economics, or other social sciences. In addition, there would be a much greater likelihood of the calculus requirement passing our departmental review if it was specifically designed for social scientists.

Yours truly,

W.C. Wedley

W.C. Wedley, Chairman
Undergraduate Curriculum Committee

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