

SIMON FRASER UNIVERSITY

S. 71 - 10

MEMORANDUM

To.....	SENATE	From.....	Executive Committee,
.....	Senate Committee on Graduate Studies
Subject.....	New Graduate Course - Geography 809-5	Date.....	December 23, 1970.

The Faculty of Arts and the Executive Committee of the Senate Committee on Graduate Studies approved the new course, Geography 809-5, and recommends the course to Senate for approval.

HME:jb

SIMON FRASER UNIVERSITY

MEMORANDUM

Mr. H. Evans, Registrar

From D.H. Sullivan, Dean

Secretary of Senate

Faculty of Arts

Subject Graduate Calendar - *Course*
Numbering New Courses

Date December 7, 1970

The Faculty of Arts has approved the attached submissions for inclusion in the 1971-72 Graduate Studies Calendar:

English Department	841-5, 842-5, 843-5
Economics	810-5, 812-5, 814-5, 900-0
✓ Geography	809-5
Modern Languages	850-3, 851-3, 855-5

The supporting papers for these courses are enclosed.



DHS:e
encl.

SIMON FRASER UNIVERSITY

MEMORANDUM

Professor D. H. Sullivan,
Dean, Faculty of Arts.

From R. B. Sagar, Chairman,
Department of Geography.

Subject GRADUATE COURSE SUBMISSION

Date 6 November 1970.

The attached course proposal was approved by the Department of Geography, and is now submitted for the approval of the Faculty of Arts and Senate.

R. B. Sagar

FBS
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FACULTY OF ARTS

November, 1969

NEW COURSE PROPOSAL

1. CALENDAR INFORMATION

Department: Geography

Course Number: 809-5

Title: Theoretical and
Quantitative
Cartography

Sub-title or Description:

The study of the theoretical and numerical problems of structuring, representing, and analyzing geographical information.

Credit Hours: 5

Vector Description:

Pre-requisite(s):

At least one undergraduate course in statistics.

2. ENROLMENT AND SCHEDULING

Estimated Enrolment: 5 - 10

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

When will course first be offered?

Two semesters after approval of proposal.

3. 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?

There is not a similar course offered on campus, or elsewhere in Western Canada. Some aspects of quantitative cartography might be taught in Quantitative Geography (807-3), but the overlapping does not go beyond one contact hour.

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

Computer mapping, coding, transformation, projection, correspondence, interaction, quantitative surface analysis and interpretation, interpolation, theoretical surfaces, picture processing and computer graphics.

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

This course is an addition to both areas of techniques in Geography, and theoretical geography.

- D. How does this course affect degree requirements?

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

Insert Geography 809-5, "Theoretical and Quantitative Cartography"

- 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?

Estimated enrolment = 5 to 10 students

This course will attract Geography students because of its technical and theoretical aspects.

- H. Other reasons for introducing the course.

This course will also be attractive to students from outside the Department of Geography because it comes closest to Computer Graphics.

4. BUDGETARY AND SPACE FACTORS

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

Dr. T. K. Peucker, Assistant Professor, Department of Geography.

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

None

C. Any other budgetary implications of mounting this course:

1 1/2 hours C.P.U. time per student per semester.

2 hours digitizer time per student per semester (commercial rate:
\$20.00 per hour).

Also a student/operator for the academic terminal for two weekends.

Approval:

Graduate Studies

Curriculum Committee:

Dean of Faculty:

Senate: