

SIMON FRASER UNIVERSITY

MEMORANDUM

SENATE PAPERS

To..... Mr. H. Evans  
 Secretary of Senate

Subject..... Physical Science in Archaeology

From..... B. L. Funt  
 Dean of Science

Date..... October 22, 1969

I present a proposal for a new course entitled "Physical Science in Archaeology."

This has been approved by the Undergraduate Curriculum Committee of the Faculty of Science and by the Faculty of Science at its meeting of October 20th.

*B. L. Funt*

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BLF:mb

c.c. Dr. J. F. Cochran  
 Acting Head, Physics

FACULTY OF SCIENCE

3. i) Report from Undergraduate Curriculum Committee

c) Physical Science in Archaeology

This course was considered by the Undergraduate Curriculum Committee and is recommended to the Faculty for approval.

B.L. Funt

*Approved by the Faculty of Science at its meeting of October 20, 1969*

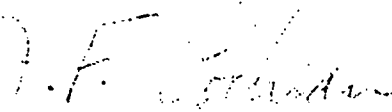
# SIMON FRASER UNIVERSITY

## MEMORANDUM

To	Dr. B. L. Funt	From	J. F. Cochran, Acting Head
	Dean of Science		Department of Physics
Subject	New Physics Course	Date	September 26, 1969

14733-PC

Enclosed is the outline of a proposed new physics course 'physical science in archaeology'. This course has the unanimous approval of the physics department faculty and has been devised in close collaboration with Professor R. Carlson (see copy of enclosed letter from Carlson). We wish to have this course presented to the faculty of science so that it can be recommended to Senate for approval.



J. F. Cochran

JFC:eaw

Enclosures



# SIMON FRASER UNIVERSITY

ARCHAEOLOGICAL STUDIES



BURNABY 2, BRITISH COLUMBIA

Telephone 291-3111 Area code 604

September 24, 1969

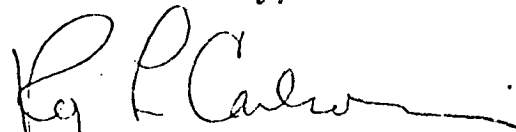
Dr. J.F. Cochran, Acting Head  
Department of Physics

This letter is in reference to the proposed new Physics course, 281-3 Physical Science in Archaeology. As modern Archaeology relies heavily on many aspects of physical science it is highly desirable that students obtain a background and solid understanding of the methods involved. In my opinion the course as outlined by Professor Huntley meets these requirements and is neither too specialized nor too generalized. Few Archaeologists would be able to teach such a course other than as a general survey, and the multi-disciplinary cooperation inherent in your willingness to discuss and I hope accept this course is very much appreciated.

A predicted enrollment of Archaeology students in the course is somewhat difficult to obtain at this time. A casual sampling of readily available students indicates that half of them already have the Physics prerequisite and would be interested in taking the course. Projecting this percentage against the total number of students (seventy) who want to specialize in Archaeology produces an enrollment of about 35. In view of the number of variables involved in this calculation and the vicissitudes of university enrollments, a projected enrollment of 20 would in my opinion be a more realistic figure. Students from other disciplines such as Physical Geography and Chemistry could increase this figure.

We would highly recommend the course to Archaeology majors and require it for honors students.

Yours sincerely,

  
Roy L. Carlson  
Director

FACULTY OF SCIENCE

NEW COURSE PROPOSAL

I CALENDAR INFORMATION

Department: Physics Course Number: Title:

Sub-title or Description:

Physical Science in Archaeology P-281-3

Credit Hours: 3

Vector Description: (2,0,2)

Pre-requisite(s):

Physics 100-3 or 101-3 or Physics 12 (B.C. High School)  
Archaeology 272 or 273, or permission  
of the instructor

II ENROLMENT AND SCHEDULING

Estimated Enrolment: 20

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

Spring, alternate years

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?  
It is intended to teach those aspects of physics which are used in contemporary archaeology as techniques for location, dating and analysis of objects. There are no similar courses and the content does not overlap significantly with other courses in the physics department. Some material may overlap slightly with some senior nuclear chemistry courses which however are at an...
- B. What is the range of topics that may be dealt with in the course?

Location of objects - resistivity surveying and magnetometers  
Dating - radiocarbon, thermoluminescence etc.  
Analysis - spectroscopy, nuclear activation analysis etc.

A. (cont'd)

advanced level and not accessible to the archaeology students.

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

Exactly.

To be of service to other departments whenever we are able to do so.

- D. How does this course effect degree requirements?

It will provide an elective course for science students.

It will be strongly recommended for archaeology majors.

It will be required for archaeology honors.

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

Add. - Proposed calendar outline under  $\left\{ \begin{array}{l} \text{Physics} \\ \text{Archaeology} \end{array} \right.$

Add. - Schedule of offering (Spring 1971)

- 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?

Most archaeology students.

Minimum 20 per alternate years

Maximum 40 per alternate years

- H. Other reasons for introducing the course.

Archaeology (Dr. Carlson) has requested it.

#### IV

#### BUDGETARY AND SPACE FACTORS

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

D. J. Huntley

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

Lab space - can be fitted in existing undergraduate laboratories.

Field work - no problem any field will do if a convenient midden cannot be found.

- C. Any other budgetary implications of mounting this course:

Faculty + 1/8 faculty member if alternate years.  
T.A. 1 full time each offering

APPROVAL - Faculty Undergraduate Curriculum Committee: OCTOBER 1, 1969

Faculty: OCTOBER 20, 1969

Senate: