SIMON FRASER UNIVERSITY

OFFICE OF THE VICE-PRESIDENT, ACADEMIC

MEMORANDUM

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To:

Senate

From:

D. Gagan, Chair

Senate Committee on Academic Planning

Subject:

Department of Physics -

New course PHYS 863 - 3

Date:

May 15, 1996

Action undertaken by the Senate Graduate Studies Committee 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, as set forth in S.96 - 52 , the following

New course

PHYS 863 - 3

Surface Science, Thin Films and Interfaces"

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

Simon Fraser University New Graduate Course Proposal Form

Department: Physics	Course Number:	863-3
Course Title: <u>Surface Science</u> , Thin Films and	i Interfaces	
Course Description for Calendar (append a course outline): See attached.		
Credit Hours: 3 Vector: 3-0-0 Prere	Physics 810-3 861-3 equisites (if any): <u>or permission</u>	
Estimated Enrolment: 8-10 When the course will		
Frequency of course offering:Every two years.		
Justification: We have offered this course as have had excellent response. We would like calendar.	s a special topic course 3	times and
Resources: Faculty member(s) who will normally teach this course; append information about their competency to teach the course:	Dr. Hei the cou	nrich has given rse 3 times befo
Number of additional faculty members required in order	to offer this course:	
Additional space required in order to offer this course (ap	rpend details):	
Additional specialized equipment required in order to of	fer this course (append details):	. <u> </u>
Additional Library resources required (append details): and	nually: \$ one-time: \$	S
Any other resource implications of offering this course (a	ppend details):	
If additional resources are required to offer this course, prepared to provide information on the sour	the department proposing the course sh rce(s) of those additional resources.	iould be
Approvals:	.1 18	012/-
Departmental Graduate Program Committee:		95/11/17
Faculty Graduate Studies Committee: 2ll Ku	Date: _	95/11/17
CATA CION	Date:	95/12/18

Following approval by the Faculty, this form and all relevant documentation should be forwarded to the Assistant Director - Graduate Studies in the Office of the Registrar for consideration by the Senate Graduate Studies Committee, the Senate Committee on Academic Planning and Senate.

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Surface Science, Thin Films and Interfaces.

Review of surface science techniques: Auger, XPS electron spectroscopies, Low Energy Electron Diffraction (LEED), High Energy Electron Diffraction (RHEED), Scanning Tunneling Microscopy (STM). Review of thin film deposition techniques: Molecular Beam Epitaxy of metallic and semiconductor multilayer and superlattice structures. Physics and chemistry of surfaces and interfaces.