SIMON FRASER UNIVERSITY S.81-27

ToSenate	From Office of the Dean of Graduate Studies
Subject. New Graduate Course Proposals	Date November 18, 1980

MOTION: That Senate approve and recommend approval to the Board, as set forth in S.81-27 - New Graduate Course Proposals, BISC 811-3 and 861-3.

These changes were approved by the Executive Committee of the Senate Graduate Studies Committee on November 17, 1980.

Bryan P. Beirne Dean of Graduate Studies

bjr attachs.

SIMON FRASER UNIVERSITY

MEMORANDUM

M. McGinn Assistant Registrar Graduate Studies	From.	N. Heath Assistant to the Dean Faculty of Science
Subject NEW GRADUATE COURSE PROPOSALS	Date.	1980 10 21

At the meeting of 1980 10 20, the Faculty of Science passed the following motion:

That the new course proposals, BISC 811-3, Cell and Molecular Biology and BISC 861-3, Advanced Studies in Cell and Molecular Biology, be approved and forwarded to the Senate Graduate Studies Committee and Senate for consideration and approval.

The course proposal forms, outlines and information concerning the Library collection are attached.

N. Heath

NH/mgj Attachments

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Outline of Proposed Course - Cell and Molecular Biology

The purpose of this course will be to introduce at a graduate level the topic of cell and molecular biology. Classical studies which demonstrate specific phenomena will be reviewed. Following this introduction, the student will be presented with modern studies and methodologies which probe DNA structure and function. Examples of the topics to be covered are:

- 1. Review of DNA, RNA, and protein structures.
- 2. Prokaryote and Eukaryotes: differences and similarities at a molecular biological level.
- 3. Nucleases, polymerases, and other enzymes of interest.
- 4. DNA replication and synthesis.
- 5. RNA synthesis, transcription and regulation.
- 6. Protein synthesis: translational mechanisms and their control.
- 7. Plasmids, phages, and recombinant DNA.

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Outline of Proposed Course - Advanced Studies in Cell and Molecular Biology - BISC. 861

The intent of this course is to examine in detail current cell and molecular biological research. This course will be a continuation of BISC. 8XX (Cell and Molecular Biology). The rate of progress in these research areas is phenomenal at this time. Consequently it is impossible to specify the topics to be covered. The areas of the literature covered will be concerned with DNA structure and its relationship to transcription and transcriptional regulation, translational mechanisms and their control, and emergent technologies such as plasmid, phage, and recombinant DNA studies.

SIMON FRASER UNIVERSITY

MEMORANDUM

ToMike Smith	From Maurice Deutsch
Biology	Sciences - Library
Subject	Date

With regard to the proposed course:

Bioscience 811 Cell and Molecular Biology Bioscience 861 Advanced Studies in Cell and Molecular Biology

the Library's book, journal, and index/abstract collections can adequately support graduate and post graduate research and study in the areas of cell and molecular biology.

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