

SIMON FRASER UNIVERSITY

S.75-179

MEMORANDUM

To..... SENATE.....	From..... SENATE COMMITTEE ON UNDERGRADUATE.....
 STUDIES
Subject..... PROPOSED GENERAL CHANGES - FACULTY OF SCIENCE	Date..... NOVEMBER 13, 1975.....

- MOTION 1: "That Senate approve, as set forth in S.75-179 (a), the deletion of notes A and B following BISC 101-4 and 102-4 in the undergraduate calendar entry."
- MOTION 2: "That Senate approve, as set forth in S.75-179 (b), the proposed modification of requirements in the Biochemistry Core Program to make BISC 101-4 and 102-4 required rather than merely strongly recommended."
- MOTION 3: "That Senate approve, as set forth in S.75-179 (c), the change in prerequisite for BISC 410-3 - Ethology from BISC 305-3 - Animal Physiology to BISC 304-3 - Animal Ecology, or permission of the Department."
- MOTION 4: "That Senate approve and recommend approval to the Board of Governors, as set forth in S.75-179 (d), the following revision to the requirements for majors in Biology:
- Delete: 'Three courses from Group II - The Biology ...347-3.'
Replace With: 'Four courses from Group II - The Biology of Organisms. One course from BISC 306 and 316, one course from BISC 326 and 337, one course from BISC 303, 306, 316, 317, 326 and 337, and one course from BISC 305 and 347.'"
- MOTION 5: "That Senate approve, as set forth in S.75-179 (e), the revision of notes under CHEM 251-3 and CHEM 256-2 as follows:
- After CHEM 251-3 add: 'CHEM 256-2 should ordinarily be taken concurrently.'
After CHEM 256-2, delete 'this course may be taken concurrently with CHEM 251-3 or 252-3.' Add after prerequisite: 'CHEM 115-2. CHEM 251-3 should ordinarily be taken concurrently.'"
- MOTION 6: "That Senate approve and recommend approval to the Board of Governors, as set forth in S.75-179 (f), the addition of PHYS 202-2 to the statement of Chemistry Core Program requirements."
- MOTION 7: "That Senate approve and recommend approval to the Board of Governors, as set forth in S.75-179 (g), deletion of the first footnote under Chemistry Minor - Inorganic/Radiochemistry and both footnotes under Chemistry Minor - Physical and Nuclear Chemistry."

- MOTION 8: "That Senate approve and recommend approval to the Board of Governors, as set forth in S.75-179 (g), the addition of the words 'or MATH 154-3' after MATH 151-3 in the statement of prerequisites for CHEM 104-3 - General Chemistry I, and the addition of 'or MATH 155-3' after MATH 152-3 in the statement of prerequisites for CHEM 105-3 - General Chemistry II."
- MOTION 9: "That Senate approve, as set forth in S.75-179 (h), the addition of a note following MATH 101-3 - Introduction to Statistics to read 'students who have obtained credit for ARC. 376-5, ECON 332-3, or MATH 371-3 cannot subsequently receive credit for MATH 101-3' and the alternation of the prerequisite statement following MATH 302-3 to read as follows: 'prerequisite: MATH 101-3 or ARC. 376-5 or ECON 332-3.'"
- MOTION 10: "That Senate approve and recommend to the Board of Governors for approval, as set forth in S.75-179 (i), the recommended changes in prerequisites, course titles, and course descriptions in Physics.

SIMON FRASER UNIVERSITY

S.75-179

MEMORANDUM

To SENATE

From SENATE COMMITTEE ON UNDERGRADUATE STUDIES

Subject Calendar Revision - Faculty of
Science

Date 13 November 1975

Actions taken in the Senate Committee on Undergraduate Studies at its meeting of 12 November 1975 give rise to the following motions:

MOTION 1

That Senate approve the deletion of notes A and B following BISC. 101-4 and 102-4 in the undergraduate calendar entry.

MOTION 2

That Senate approve the proposed modification of requirements in the Biochemistry Core Program to make BISC. 101-4 and 102-4 required rather than merely strongly recommended and that the calendar entry be appropriately modified to reflect this change.

MOTION 3

That Senate approve the change in prerequisite for BISC. 410-3 Ethology from BISC. 305-3, Animal Physiology to BISC. 304-3, Animal Ecology, or permission of the Department.

MOTION 4

That Senate approve and recommend approval to the Board of Governors the following revision to the requirements for majors in Biology:

Delete: "Three courses from Group II - The Biology...347-3."

Replaced by: "Four courses from Group II - the Biology of Organisms. One course from BISC. 306 and 316, one course from BISC. 326 and 337, one course from BISC 303, 306, 316, 317, 326 and 337, and one course from BISC 305 and 347."

Cont'd. . .

MOTION 5

That Senate approve the revision of notes under CHEM. 251-3 and CHEM. 256-2 as follows:

after CHEM. 251-3 add: "CHEM 256-2 should ordinarily be taken concurrently."

after CHEM. 256-2, delete "this course may be taken concurrently for CHEM 251-3 or 252-3." and add after prerequisite: "CHEM. 115-2. CHEM. 251-3 should ordinarily be taken concurrently."

MOTION 6

That Senate approve and recommend approval to the Board of Governors the addition of PHYS. 202-2 to the statement of Chemistry Core Program requirements.

Note - PHYS. 202 was dropped from the Chemistry Core Program by oversight rather than by intent.

MOTION 7

That Senate approve and recommend approval to the Board of Governors deletion of the first footnote under Chemistry Minor - Inorganic/Radiochemistry and both footnotes under Chemistry Minor - Physical and Nuclear Chemistry.

MOTION 8

That Senate approve and recommend approval to the Board of Governors the addition of the words "or MATH. 154-3" after Math 151-3 in the statement of prerequisite for CHEM., 104-3 - General Chemistry I, and the addition of "or MATH 155-3" after MATH. 152-3 in the statement of prerequisite for CHEM. 105-3 - General Chemistry II.

MOTION 9

That Senate approve the addition of a note following MATH 101-3 - Introduction to Statistics to read "students who have obtained credit for ARCH 376-5, ECON 332-3, or MATH 371-3, cannot subsequently receive credit for MATH 101-3." and the alternation of the prerequisite statement following MATH 302-3 to read as follows: "prerequisites: MATH 101-3 or ARCH 376-5 or ECON 332-3."

Senate
13 November 1975
Page Three

MOTION 10

That Senate approve the recommended changes in prerequisites, course titles, and course descriptions in Physics.



Daniel R. Birch

ds
attachments

SIMON FRASER UNIVERSITY

SCUS 75-44

MEMORANDUM

To H. Evans
 Secretary of SCUS

Subject UNDERGRADUATE CALENDAR REVISIONS

From S. Aronoff *S. Aronoff*
 Dean of Science

Date October 29, 1975

The revisions to the Faculty of Science Undergraduate Calendar entries, as outlined in the attached memos, were discussed and approved by the Faculty of Science at its meeting of October 28, 1975. They are forwarded herewith for consideration by SCUS.

/pel

Encl.

SIMON FRASER UNIVERSITY

(a)

MEMORANDUM

To.....Dr. D. Ryeburn, Chairman,	From.....C. L. Kemp, Chairman, DUCC.
Faculty Undergraduate Curriculum Committee	Biological Sciences.
Subject Calendar change.	Date.....October 6, 1975

The following change and addition to the 1976-77 Undergraduate Calendar is requested by the Department of Biological Sciences. It has been approved by the DUCC and the Department.

Reference page 307 SFU Calendar 1975-76.

Delete notes a) & b) following BISC 101-4 and 102-4


Reasons for the change:

By implication the current regulations equate BISC 101 and 102 with High School Biology 11 and 12. This is not the case.

The by-passing of BISC 101 & 102 by students with Biology 11 & 12 has led to a general lowering of the level of instruction achieved in the Department 200 level courses.

The method of instruction in BISC 101 & 102 (i.e. Audio Tutorial) is ideally suited to cope with students with various levels of knowledge in Biology, and to bring these students to a minimum standard of comprehension above that normally achieved in High School.

This change will also remove the inconsistency existing at present in that all the BISC 200 level courses require BISC 101 & 102 as prerequisites.


C. L. Kemp,
Chairman, DUCC.
Biological Sciences.

CLK/mf

SIMON FRASER UNIVERSITY

MEMORANDUM

(6)

To	H. Evans	From	S. Aronoff <i>per S. Aronoff</i>
	Secretary of SCUS		Dean of Science
Subject	CALENDAR CHANGES	Date	October 29, 1975

The Faculty of Science, at its meeting of October 28, 1975, approved changes to the Biological Sciences calendar with regard to BISC 101 and 102 that have an effect on the Biochemistry core program as outlined on page 313 of the current calendar. The Faculty approved the change as follows:

Delete: BISC 20 semester hours, to include 202-3, 302-3, 401-3, and 402-3. BISC 101-4 and 102-4 are strongly recommended.

Add: BISC 101-4, 102-4, 202-3, 302-3, 401-3 and 402-3.

Delete: Paragraph on page 314 referring to BISC 101 and 102 omission by students with High School Biology courses.

These changes are forwarded herewith to SCUS for consideration.

/pel

SIMON FRASER UNIVERSITY

MEMORANDUM

(c)

To..... Dr. D. Ryeburn, Chairman,
..... Faculty Undergraduate Curriculum
..... Committee
Subject..... Calendar change.

From..... C. L. Kemp, Chairman, DUCC,
..... Biological Sciences.
Date..... October 6, 1975

The following calendar change has been considered by the DUCC of the Department of Biological Sciences and is recommended for inclusion in the 1976-77 SFU Undergraduate Calendar.

The prerequisite for BISC 410-3 Ethology be changed from BISC 305 Animal Physiology to BISC 304 Animal Ecology, or permission of the Department.

The basic rationale is provided in the attached memo from Dr. L. Dill.



C. L. Kemp,
Chairman, DUCC,
Biological Sciences.

CLK/mf

SIMON FRASER UNIVERSITY

MEMORANDUM

L. Kemp,
Chairman, DUCC.
Subject BISC 410 (Comparative) Ethology

From L. M. Dill,
Assistant Professor.
Date October 2, 1975

I wish to have the prerequisite for this course changed from BISC 305 (Animal Physiology) to BISC 304 (Animal Ecology). This change is suggested because the course as presently taught reflects my personal biases, and takes an ecological rather than a physiological approach to the study of animal behaviour. In other words, the course emphasizes the adaptedness of behaviour rather than its causation.



L. M. Dill,
Assistant Professor.

LMD/mf

SIMON FRASER UNIVERSITY

MEMORANDUM

To Dr. D. Ryeburn, Chairman,
Faculty Undergraduate Curriculum
Committee
Subject Calendar change.

From C. L. Kemp, Chairman DUCC,
Biological Sciences.
Date October 6, 1975


The following change was approved by the Department of Biological Sciences after consideration by the DUCC.

Page 302 of 1975-76 calendar

Delete: Three courses from Group II - the Biology347-3".

Replace by: "Four courses from Group II - the Biology of Organisms. One course from BISC 306 and 316, one course from BISC 326 and 337, one course from BISC 303, 306, 316, 317, 326 and 337, and one course from BISC 305 and 347.

This change is required since interpretations of the current regulations have been contrary to the desire of the Department of Biological Sciences. The B.Sc. in Biology attempts, among other things, to give a student some insight into the major facet of Biology. This requires atleast minimal exposure to both Plants and Animals.


C. L. Kemp,
Chairman, DUCC,
Biological Sciences.

CLK/mf

SIMON FRASER UNIVERSITY

MEMORANDUM

To Dr. Ryeburn, Chairman, Faculty
Undergraduate Curriculum Committee

Subject Calendar Changes

From E. Kiehlmann, Counsellor
Chemistry Department

Date October 10, 1975

The following calendar changes are proposed (1975/6 calendar, page 324):

1. Chemistry 251-3, add: CHEM 256-2 should ordinarily be taken concurrently.
2. Chemistry 256-2, replace: "Prerequisite: This course may be taken concurrently with CHEM 251-3 or 252-3"
by: "Prerequisite: CHEM 115-2. CHEM 251-3 should ordinarily be taken concurrently."

Rationale: The course contents of Chem 251 and 256 are well coordinated in order to facilitate the student's understanding of the lab experiments and to permit him/her to integrate lab and lecture material. The student should be made aware of this synchronization by recommending that these two courses be taken concurrently.

In general, all Chem 256 students have taken Chem 115 which is part of the core program for chemistry, biochemistry and bioscience majors and honors, and which teaches basic chemical laboratory operations at an introductory level. However, according to the present calendar description, Chem 256 is the only chemistry course (other than 100- level) that can be entered without any prerequisite (if a future student would wish to do so) which is not desirable.

E. Kiehlmann

Eberhard Kiehlmann

EK:BS

SIMON FRASER UNIVERSITY

(8)

MEMORANDUM

To Dr. Ryeburn, Chairman, Faculty
Undergraduate Curriculum Committee
Subject Calendar Change

From E. Kiehlmann, Counsellor
Chemistry Department
Date October 14, 1975

May I request that your committee, at its meeting of October 17, consider the following correction in the Chemistry core program (p. 319 of the 1975/76 calendar):

Change: "PHYS 203-2 and 205-2 and their prerequisites plus a minimum of 2 hours laboratory credit"
to: "PHYS 202-2, 203-2 and 205-2 and their prerequisites plus a minimum of 2 hours laboratory credit"

Rationale: Phys. 202 was dropped from the chemistry core program by oversight when Physics 206 (for which Physics 202 is a prerequisite) was eliminated (for comparison, see 1974/75 calendar, page 261, top paragraph). Exposure to all subdisciplines of physics, including optics, has always been and remains the intent of the physics courses that are required of chemistry major and honors students.

E. Kiehlmann

EK:BS

E. Kiehlmann

SIMON FRASER UNIVERSITY

MEMORANDUM

(9)

To	S. Aronoff	From	L.K. Peterson, Chairman
	Dean of Science		Chemistry U.G.C.C.
Subject	CALENDAR CHANGES	Date	October 27, 1975

The following are rationales for calendar changes which the Registrar feels are substantive, rather than editorial:

1. Page 320, Chemistry Minor - Inorganic/Radiochemistry - delete "+" following CHEM 416-3 and corresponding note with regard to pre-requisites. Rationale: The 1975-76 calendar entry for CHEM 416-3 has, as prerequisite, "Chem 117-2 or permission of the Department."
2. Page 321, Physical and Nuclear Chemistry - same as above, also delete reference to PHYS 206-2. Rationale: Physics 206-2 is no longer in the core program for Chemistry and has not been a substitute for CHEM 261 for some time.
3. Page 323, CHEM 104-3 - add (or MATH 154-3) to prerequisite statement. Rationale: This is an acceptable Calculus I course.
4. Page 323, CHEM 105-3 - add (or MATH 155-3) to prerequisite statement. Rationale: This is an acceptable Calculus II course.

L. Lombard for L. K. P.

LKP/pel

SIMON FRASER UNIVERSITY

MEMORANDUM

sh

To. Dr. D. Ryeburn, Chairman
Undergraduate Curriculum Committee
Faculty of Science

From. Dr. N.R. Reilly, Chairman
Mathematics Department

Subject. 75-76 Calendar Revisions

Date. October 27, 1975

This memorandum is to request that approval be given to changes in prerequisite statements for two mathematics courses in the 75-76 edition of the undergraduate calendar. The courses in question are Mathematics 101-3, Introduction to Statistics and Mathematics 302-3, Statistical Methods. The changes being requested arise from the introduction of the course Archaeology 376-5, approved by Senate in May 1975. In the case of Mathematics 101-3, the change requested is in part of the prerequisite statements which should read as follows:

"Students who have obtained credit for ARCH 376-5, ECON 332-3, or MATH 371-3, cannot subsequently receive credit for MATH 101-3."

The rationale for this change is that Math 101-3 is listed as a prerequisite for Arch 376-5, and it is departmental policy that a student who successfully completes a course without having taken its prerequisite should not subsequently be permitted to take that prerequisite course for credit.

In the case of Math 302-3, the prerequisite statement should be altered to read:

"Prerequisites: MATH 101-3 or 371-3 or ARCH 376-5 or ECON 332-3."

The reason for the inclusion of ARCH 376-5 in the prerequisite statement is to increase student accessibility to Math 302-3.

Norman R. Reilly
N.R. Reilly

OCT 27 1975

SIMON FRASER UNIVERSITY

MEMORANDUM

(ci)

To Dr. S. Aronoff
Dean of Science

From A. E. Curzon, Chairman
Physics Department

Subject CALENDAR CHANGES

Date October 16, 1975

The suggested calendar changes given on the attached memo were approved at a meeting of the Physics Department on the 15th of October, 1975. I would be grateful if you would pass them on to the Faculty of Science Undergraduate Studies Curriculum Committee for their attention.

A. E. Curzon

AEC/ml

Enc: Memo Irwin/Curzon d. Oct. 14/75 re Calendar Changes

SIMON FRASER UNIVERSITY

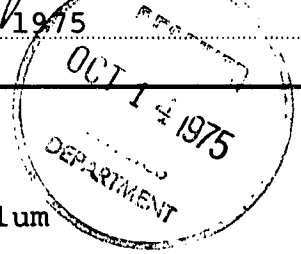
MEMORANDUM

To Dr. A.E. Curzon

From J.C. Irwin

Subject Calendar Changes

Date October 14, 1975



The Physics Department Undergraduate Curriculum Committee recommends the following changes be made to the 1975-76 SFU Calendar:

- Page 348 - Under Physics 203-2 delete the phrase "or 101-3 with a grade of B or higher".
- Page 349 - (a) Under Physics 204-2 prerequisites change PHYS 101-3 to PHYS 102-3.
(b) The title of the course should be shortened to read "Introductory Electricity".
(c) Delete phrase "electric and magnetic fields" replace with "Electric fields and potential".
- Page 349 - (a) Title of Physics 205-2 changed to read "Introductory Electromagnetism".
(b) Under Phys 205-2 prerequisites delete the phrase "or 102-3 with a grade of B or higher".
- Page 350 - Title of PHYS 411-4 changed from "Mechanics II" to "Classical Mechanics".
- Page 350 - Title of Phys 421-4 changed from "Electricity and Magnetism II" to "Electromagnetism".
- Page 349 - Under Physics 206-2 prerequisites delete the phrases "or 101-3 with a grade of B or better" and "or 102-3, with a grade of B or better". Prerequisite statement should then read PHYS 201-2 and PHYS 204-2. Physics 202-2 normally precedes or is taken concurrently. Math 253-4 must precede or be taken concurrently.

rationale attached

SIMON FRASER UNIVERSITY

MEMORANDUM

(2)

Sue Geddes

From Dr. J.C. Irwin

Physics Department


Subject CALENDAR CHANGES

Date 24 October 1975

In reference to proposed calendar changes:

- (1) Students entering Physics 203, 205, and 206 with only Physics 101 and 102 background have experienced a great deal of difficulty and most drop out of the course or fail. Hence we have revised the prerequisites for these courses so that students will now take 201 and/or 204 before entering the above courses.
- (2) The change in title that is recommended for Physics 204 will more accurately reflect the actual course content. Magnetism has never been a part of this course and the presence of the word magnetism in the title and course content is an historical error.
- (3) The change in title for Physics 411-4 (Mechanics II) and Physics 421-4 (Electricity and Magnetism II) is made because there are no longer courses Mechanics I and Electricity and Magnetism I. The latter two courses (Physics 211 and Physics 221) were dropped many years ago.
- (4) Physics 205-2 title change. This course has always been an introductory course in electromagnetism and the word intermediate is misleading. The suggested title is thus not only more accurate but also more concise.

JCI/mgj


J.C. Irwin

SIMON FRASER UNIVERSITY

MEMORANDUM

SCUS 75-44
Addendum -
for information

To H. Evans
Secretary of SCUS
Subject BIOPHYSICS CALENDAR ENTRY

From S. Aronoff *S. Aronoff*
Dean of Science
Date November 3, 1975

At its meeting of October 28, 1975, the Faculty of Science passed a motion regarding a change to the Physics calendar entry as follows:

Page 348 - Under Physics 203-2 delete the phrase "or 101-3 with a grade of B or higher".

Page 349 - Under Physics 205-2 prerequisites delete the phrase "or 102-3 with a grade of B or higher".

The rationale for these changes is that students entering Physics 203, 205 and 206 with only Physics 101 and 102 background have experienced a great deal of difficulty and most drop out of the course or fail. Hence, the Physics Department has revised the prerequisites for these courses so that students will now take 201 and/or 204 before entering the above courses.

Pursuant to this change it becomes necessary to alter the first paragraph on the last page of the Biophysics calendar entry and delete the sentence, "In this regard note that a grade B or better in PHYS 101 and 102 enables a student to proceed directly to PHYS 203-2 and PHYS 205-2."

This change to the Biophysics calendar entry is forwarded herewith for consideration by SCUS.

/pel