

S.89-70  
*As amended*  
(pg.1)

SIMON FRASER UNIVERSITY

MEMORANDUM

TO: SENATE

FROM: Senate Undergraduate  
Admissions Board

SUBJECT: Admission Requirements -

DATE: Nov. 8, 1989

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Action undertaken by the Senate Undergraduate Admissions Board gives rise to the following motion.

MOTION: "that Senate approve the requirements for admission to the Faculty of Science for applicants from B. C. Secondary Schools and applicants from Post-Secondary Institutions and other Categories as set forth in the memorandum from C.H.W. Jones, Dean, Faculty of Science to R. Heath, Secretary of Senate, dated October 18, 1989"

**SIMON FRASER UNIVERSITY**

**MEMORANDUM**

To: W.R. Heath  
Secretary of Senate

From: Nick Heath  
Director  
Admissions and Liaison

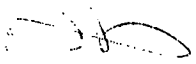
Subject: Admission Requirements:  
Faculty of Science

Date: October 30, 1989

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At its meeting of October 24, 1989, SUAB approved the introduction of new admission requirements for all students entering the Faculty of Science in Fall semester ~~1991~~ or later. <sup>1992</sup>

These requirements are given in the attached memo from Dean Jones dated October 18, 1989 (SUAB 196). Two memos from Dr. R. Frindt are also attached, giving background and rationale.



NH/sp  
Attachments (3)

1.

**SIMON FRASER UNIVERSITY  
MEMORANDUM**

To: R. Heath,  
Secretary to Senate

From: C.H.W. Jones, Dean  
Faculty of Science

Subject: **Admission to the  
Faculty of Science**

Date: October 18, 1989

At a meeting of the Faculty of Science held on October 16, 1989 the following requirements for admission to the Faculty were approved. We ask that these requirements now be placed before the appropriate committees for their consideration. Two memoranda from the Chair of our Faculty of Science Undergraduate Curriculum Committee are attached.

a) Applicants from B.C. Secondary Schools

In addition to meeting all University entrance requirements, applicants graduating from secondary school must meet the following requirements:

- Algebra 11
- English 11
- Chemistry 11
- Language 11 (not beginners Language 11)
- Physics 11
- English 12
- Algebra 12
- Two additional academic grade 12 subjects selected from:  
Biology, Chemistry, Computer Science, Geography, Geology,  
Geometry, Physics, Probability and Statistics

A minimum average of C+ calculated on all of the above subjects.

A minimum grade of C+ in each of the above four grade 12 subjects.

b) Applicants from Post-Secondary Institutions and other Categories

For entry to the Faculty from Colleges, other Universities, other post-secondary institutions and for other categories the current regulations for entry into the University apply, as appropriate.

For entry to Faculty from within SFU, a C.G.P.A. of at least 2.0 is required.

In addition to the above, all students seeking admission to the Faculty are required to have a grade of C+ or greater in each of four courses that are at least equivalent to: English 12 and Algebra 12 or (MATH 100) and to two courses selected from Biology 12, Chemistry 12 (or CHEM 101), Computer Science 12, Geography 12 (or GEOG 100), Geology 12 (or GEOG 112), Geometry 12 (or MATH 113), Physics 12 (or PHYS 100), Probability and Statistics 12.

The following statement should appear immediately below the requirements in part (a) above:

Students who are interested in the life sciences are strongly advised to include Biology 12 in their secondary school programs. Students who plan to enter science programs (including Biological Sciences, Biochemistry, Chemistry, Kinesiology and Physics) are strongly advised to include Algebra 12 (with a grade of B or better), Chemistry 12 and Physics 12 in their secondary school programs. If a student lacks any of these courses, substitute courses may be taken at Simon Fraser University, but degree completion could be delayed.

CHWJ:rh:encl.

C.H.W. Jones

C.H.W. Jones

**SIMON FRASER UNIVERSITY  
MEMORANDUM**

To: C.H.W. Jones,  
Dean of Science

From: R.F. Frindt, Chair,  
Faculty of Science  
Undergraduate Curriculum  
Committee

Subject: **Admission to Faculty of  
Science from High School**

Date: October 3, 1989

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After further discussions and consideration of feedback from faculty and others, at our meeting on July 12, 1989, the Faculty of Science Undergraduate Curriculum Committee agreed to the following admission requirements for students entering from secondary school:

In addition to meeting all University entrance requirements, applicants graduating from secondary school must meet the following requirements:

- ✓ Algebra 11
- ✓ English 11
- Chemistry 11
- Language 11 (not beginners Language 11)
- Physics 11
- ✓ English 12
- Algebra 12
- Two additional academic grade 12 subjects selected from:  
Biology, Chemistry, Computer Science, Geography, Geology,  
Geometry, Physics, Probability and Statistics
- A minimum average of C+ calculated on all of the above subjects.

A minimum grade of C+ in each of the above four grade 12 subjects.

Why should the Faculty of Science have its own entry requirements? What's wrong with our current requirements? The Committee addressed these questions and many others in considering entry to the Faculty.

At the present time our Faculty can accommodate a significant increase in enrolment, but looking ahead we think that enrolment will have to be controlled and thus it makes sense to have a mechanism in place so that it can be used in a reasonable and orderly way when required.

Our current regulations for entry to the University from High School require no specific grade 12 subjects other than English 12 (although certain grade 12 subjects are "strongly advised" for students planning to enter Science). The Committee felt that more specific requirements were appropriate for direct entry to the Faculty.

The Committee also agreed that there is the perception (just ask your neighbours) that S.F.U. has lower standards than U.B.C. because it is "easier to get into S.F.U.". Our Committee was unanimous in the view that our entry requirements should not in any way be perceived to be lower than U.B.C.'s. We want to attract the best students.

Our proposed entry requirements to the Faculty of Science are more specific than the current University entry with regard to course selection. We regard Chemistry 11, Physics 11 and Algebra 12 as the foundation for entry to our Science Faculty. In addition, because we want prospective students to have a greater exposure to science or math in school than our current regulations require, we would require two grade 12 subjects from a restricted list. (The Committee

agreed that in general too much university credit for essentially grade 12 material is currently available to students at the University.)

The Committee decided to set up two minimum grade requirements:

- (i) A C+ average over all grade 11 and 12 subjects listed, and
- (ii) A C+ grade for each of the four required grade 12 subjects

The Committee felt that minimum grade requirement (i) was appropriate in that it provided an overall evaluation of a student's performance and potential and perhaps more importantly it may encourage students to do well in grade 11 where the foundation to study in science is laid. The Committee noted that U.B.C. currently uses requirement (i).

We originally (March 23/89) proposed a minimum grade of B for Algebra 12. This was reconsidered and reduced to a C+ on the basis that a B grade may be unnecessarily high for students entering the non-physical sciences. The Committee then agreed that a minimum grade of C+ for all four grade 12 courses (requirement ii) is appropriate for direct entry into the Faculty in that it will ensure adequate preparation in English and Math and will require acceptable performance in at least two Grade 12 science or science related subjects.

The inclusion of a Language 11 requirement was again discussed. The Committee felt a Language 11 requirement (particularly French) was an appropriate element in our students' education. It was also noted that this is a university entrance requirement and is also a requirement at U.B.C. (U.B.C. does not accept beginners language 11).

We will also be including statements "strongly advising" students entering life sciences or the physical sciences to include certain courses in their grade 12 programs.

  
R.F. Frindt

RFF:rh

**SIMON FRASER UNIVERSITY  
MEMORANDUM**

To: C.H.W. Jones, Dean  
Faculty of Science

From: R.F. Frindt, Chair  
Faculty of Science,  
Undergraduate Curriculum  
Committee

Subject: **Entry to Faculty**

Date: September 29, 1989

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At a meeting of the Faculty of Science Undergraduate Curriculum Committee on September 27, 1989 the following motion was passed:

*"For entry to the Faculty from Colleges, other Universities, other post-secondary institutions and for other categories the current regulations for entry into the University apply, as appropriate.*

*For entry to Faculty from within SFU, a C.G.P.A. of at least 2.0 is required.*

*In addition to the above, all students seeking admission to the Faculty are required to have a grade of C+ or greater in each of four courses that are at least equivalent to: English 12 and Algebra 12 or (MATH 100) and to two courses selected from Biology 12, Chemistry 12 (or CHEM 101), Computer Science 12, Geography 12 (or GEOG 100), Geology 12 (or GEOG 112), Geometry 12 (or MATH 113), Physics 12 (or PHYS 100), Probability and Statistics 12."*

The C.G.P.A. of 2.0 above is consistent with the GPA required from the Colleges, etc., and the 2.5 (C+) is consistent with the level required of students entering from High School.

I suggest this motion along with our proposed entry requirements from High School be circulated to Faculty as you deem appropriate.

RFF:rh

  
R.F. Frindt

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