

**SIMON FRASER UNIVERSITY**


**MEMORANDUM**

**To:** Senate

**From:** Allan MacKinnon, Chair  
Senate Committee on Undergraduate Studies

**Subject:** General Admission Requirements – Addition to List 3  
(SCUS Reference 01 – 3)

**Date:** February 14, 2001



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Action undertaken by the Senate Committee on Undergraduate Studies at its meeting of February 6, 2001 gives rise to the following motion:

"That Senate approve the addition of Calculus 12 to the admission requirements, as set forth in S. 01 -23 , effective January 2002, under the List 3 (Science Group)."

Date: Fri, 19 Jan 2001 10:59:18 -0800  
To: sjdench@sfu.ca  
From: Nick Heath <nheath@sfu.ca>  
Subject: Fwd: BC Ministry of Education course: Calculus 12

SCUS 01 — 3

Date: Fri, 19 Jan 2001 10:51:54 -0800 (PST)  
X-Authentication-Warning: skekoowahts.math.sfu.ca: alistair set sender to alistair@skekoowahts.math.sfu.ca using -f  
From: Alistair Lachlan <alistair@cs.sfu.ca>  
To: allan\_mackinnon@sfu.ca  
CC: alistair@cs.sfu.ca, nheath@sfu.ca, choksi@cs.sfu.ca, berggren@sfu.ca  
Subject: BC Ministry of Education course: Calculus 12

Recommendation For the Acceptance of Calculus 12  
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1. On the basis of the detailed description of this course provided by the BC Ministry of Education, one can say that this course in both content and expectations is equivalent to SFU's MATH 151 and UBC's MATH 100. It is therefore recommended that it be accepted as a course for university entrance.
2. Because of the variability of school assessments and the lack of a provincial exam it is recommended that no transfer credit be awarded for Calculus 12. Students passing the UBC-UNBC-SFU-UVic Calculus Challenge Exam may receive credit and a grade for MATH 151 if they choose to do so --- this would continue the practice of the past two years. Exemption from MATH 151 as a program requirement will not normally be granted on the basis of the completion of Calculus 12 unless the student has taken, and achieved a satisfactory grade in, the Calculus Challenge Exam.
3. For the revised admissions policy being implemented in 2002, Calculus 12 should be placed in list 3.

Alistair Lachlan  
Undergraduate Chair  
Mathematics and Statistics

Jan 19, 2001

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Note: The department of mathematics at UBC has for some years been promoting the Calculus Challenge Exam as an alternative to various advanced placement examinations in mathematics. We have been cooperating with them and host the examination every other year.

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## Year 2002 admission requirements for BC grade 12s

### Highlights of changes

- one course (4 credits) added to course requirements
- allows a wider range of courses, especially fine and performing arts and social studies
- allows Programme Cadre grads to qualify without also taking English 12
- includes a computer/information technology course, where previously (except for AP or IB) none was accepted—almost all major universities recognize/encourage students to take high school computer science
- allows a choice between the 'principles' and 'applied' streams in mathematics
- allows forests and IB environmental systems as sciences (primarily for non-science students)

These new admission requirements are also available in [pdf format](#). (PDF: 32KB / 2 pages)

### 2001 grads

- These course requirements are effective for admission to our Spring semester 2002.
- Anyone who graduated in 2001 or earlier will be under the former requirements.

### AP and IB

Certain courses have Advanced Placement (AP) or International Baccalaureate (IB) near-equivalents which are acceptable - a chart is available from SFU Admissions.

### French

Many Grade 11 and 12 courses are taught in French in addition to English, *eg* Histoire 12 and History 12. Although only three of these courses are listed here, we recognize the other equivalent courses listed by the Ministry of Education.

### General requirements

- Secondary school graduation
- 67% (C+) minimum average
- English 11 or Français première langue 11
- language 11 or introductory language 11
- principles of mathematics 11 or applications of mathematics 11 & 12
- a science 11 from:
  - applications of physics 11 & 12
  - biology 11
  - chemistry 11
  - earth science 11
  - forests 11
  - IB environmental systems 11
  - principles of physics 11
- one course (4 credits) from [List 1](#)
- two courses (8 credits) from [List 2](#)
- two additional courses (8 credits) from [Lists 2 or 3](#). If these two additional courses are both from List 3, they must be from different groups. (see reverse)

We calculate the admission average on the [List 1](#) course and best four Grade 12 courses as selected above. Approved equivalent Programme Cadre and French Immersion courses are acceptable and Français première langue 12 is acceptable in place of English 12. Locally developed courses are not accepted.

### Specific program requirements

#### Faculty of Business Administration

General requirements, but must include principles of mathematics 12.

#### Faculty of Science

General requirements, but must include:

- chemistry 11 and principles of physics 11
- principles of mathematics 12
- two of biology 12, chemistry 12, geography 12, geology 12, principles of physics 12

#### School of Engineering Science

General requirements, but must include:

- both chemistry 11 and principles of physics 11
- principles of mathematics 12
- chemistry 12
- principles of physics 12

**School of Kinesiology**

General requirements but must include:

- principles of mathematics 12
- biology 12
- chemistry 12
- principles of physics 12

**School of Computing Science**

General requirements except that principles of mathematics and one of biology, chemistry, principles of physics must be included from list 2; one additional science course must be chosen from list 2 or list 3; and one further course must be chosen from either list 2 or list 3 as follows:

- geography, or history or
- a course in the social sciences group from list 3 or
- a course in the humanities group, except for a language course, from list 3

**Course lists**

<p><b>List 1</b></p> <ul style="list-style-type: none"> <li>● English 12</li> <li>● Français première langue 12</li> </ul>	<p><b>List 3</b></p> <p><b>Fine and Performing Arts Group</b></p> <ul style="list-style-type: none"> <li>● acting 12</li> <li>● art 12</li> <li>● dance choreography 12</li> <li>● dance performance 12</li> <li>● directing and scriptwriting 12</li> <li>● drama film &amp; TV 12</li> <li>● music composition 12</li> <li>● music composition &amp; technology 12</li> <li>● stagecraft 12</li> <li>● visual arts 2D 12</li> <li>● visual arts 3D 12</li> <li>● visual arts media arts 12</li> <li>● writing 12</li> </ul> <p><b>Sciences Group</b></p> <ul style="list-style-type: none"> <li>● forests 12</li> <li>● information technology 12</li> </ul> <p><b>Social Sciences Group</b></p> <ul style="list-style-type: none"> <li>● economics 12</li> <li>● journalism/media 12</li> <li>● law 12</li> <li>● AP comparative government &amp; politics 12</li> <li>● AP psychology 12</li> <li>● AP US government &amp; politics 12</li> <li>● IB business &amp; organization 12</li> <li>● IB psychology 12</li> <li>● IB social anthropology 12</li> </ul> <p><b>Humanities Group</b></p> <ul style="list-style-type: none"> <li>● comparative civilizations 12</li> <li>● IB theory of knowledge (philosophy) 12</li> <li>● languages:             <ul style="list-style-type: none"> <li>○ Arabic 12</li> <li>○ French 12 or 12A, or</li> <li>○ Français langue seconde 12*</li> <li>○ German 12</li> <li>○ Italian 12</li> <li>○ Japanese 12</li> <li>○ Latin 12</li> <li>○ Mandarin 12</li> </ul> </li> </ul>
<p><b>List 2</b></p> <ul style="list-style-type: none"> <li>● biology 12</li> <li>● chemistry 12</li> <li>● English literature 12</li> <li>● Français communication et littérature 12</li> <li>● geography 12</li> <li>● geology 12</li> <li>● history 12</li> <li>● principles of mathematics 12</li> <li>● principles of physics 12</li> <li>● AP calculus AB/BC 12</li> <li>● AP computer science A/AB 12</li> <li>● AP environmental science 12</li> <li>● AP statistics 12</li> <li>● IB comp science/studies 12</li> <li>● IB environmental systems 12</li> <li>● IB further mathematics 12</li> <li>● IB Mathematics with Calculus A/B</li> </ul>	

- Okanagan 12
- Punjabi 12
- Russian 12
- Secwepemctsin 12
- Spanish 12
- Upper St'at'imcets 12

\*may not be used if Français première langue 12 is taken in List 1.

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