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www.sfu.ca/vpacademic**MEMORANDUM**

ATTENTION Senate
FROM Bill Krane, Chair
Senate Committee on Undergraduate
Studies
RE: Faculty of Science (SCUS 11-23a)

DATE June 3, 2011
PAGES 1/1

A handwritten signature in blue ink, likely of Bill Krane, the chair of the Senate Committee on Undergraduate Studies.

Action undertaken by the Senate Committee on Undergraduate Studies at its meeting of June 2, 2011, gives rise to the following recommendation:

Motion 1:

That Senate approve the admission changes to the Kinesiology Major, Kinesiology Minor, Biomedical Physiology Major and Biomedical Physiology Minor in the Department of Biomedical Physiology and Kinesiology within the Faculty of Science effective Spring 2012.

SCUS 11-23 (a) Changes to the Calendar Entry for the Faculty of Science, Major in Kinesiology:

- a. Under section titled: Admission Requirements remove following sentence as the information is incorrect:

Admission averages are calculated on five required high school courses, or five or more required post-secondary courses.

- b. Under section titled: Admission Requirements, remove the following sentence to align with other programs in Faculty of Science:

If one or more courses have been duplicated (repeated), the grades from all course attempts will be used equally to calculate the kinesiology admission GPA.

- c. Remove “ and Direct transfer, Post Secondary Institutions” from the title: Direct Admission – High School

- d. After section titled: Direct Admission – High School, add the following section:

Post-Secondary Transfer

Students transferring to Simon Fraser University for the Kinesiology major will first transfer into the Faculty of Science as an 'intended major'. Students may then apply for admission to the Kinesiology major through the internal transfer process outlined below.

- e. Under section titled: Internal Transfer, change the wording from “Department of Biomedical Physiology and Kinesiology admission” to “a major in Kinesiology”

Simon Fraser University students applying for a major in Kinesiology must complete the following courses with a grade of C- or better.

- f. Under section titled: Internal Transfer, change ‘ten’ to ‘nine’ in second sentence of paragraph three:

Apply for admission as soon as the five required courses have been completed. Unsuccessful applicants may complete any of the 9 additional courses to improve the admission GPA.

- g. Under section titled: Internal Transfer, change ‘four’ to ‘nine’ in last sentence of paragraph three of internal transfer.

Those not meeting the kinesiology admission GPA upon completion of all nine additional courses will be advised of alternatives.

- h. Under section titled: Internal Transfer, add the following sentence to end of paragraph three:

All courses completed towards the program will be included in the application process.

- i. Under section titled: Internal Transfer, delete the following sentence of the last paragraph as it is not consistent with university practice: *For students transferring some core courses from another post-secondary institution, only courses completed at Simon Fraser University (and not previously completed elsewhere) are used in the kinesiology admission GPA.*

- j. Under section titled: Application Procedure, change the dates to June, October and February.

*Students should complete a program approval form which is available at the department's general office and submit it to the kinesiology advisor by **June 1** for fall term approval, **October 1** for spring term approval, or **February 1** for summer term approval*

FROM:

Kinesiology Major Program

Department of Biomedical Physiology and Kinesiology | Faculty of Science □ Simon Fraser University Calendar 2011 Summer

This bachelor of science (BSc) degree offers students the option of completing either one of three concentrations, or completing the general program instead. The three areas of concentration are

active health and rehabilitation kinesiology
ergonomics/human factors
health and physiological sciences

The program is accredited with the Canadian Council of University Physical Education and Kinesiology Administrators (CCUPEKA).

Please read descriptions of required KIN courses before enrolling in the program.

Note that students cannot combine: a kinesiology major with a biomedical physiology minor; nor a biomedical physiology major with a kinesiology

minor; nor a double major in kinesiology and biomedical physiology; nor a double minor in kinesiology and biomedical physiology.

Prerequisite Course Grade

Students enrolling in kinesiology courses must have a grade of C- or better in prerequisite courses. Students enrolled in kinesiology certificate, minor, major (including concentrations), honours, second degree, and post baccalaureate diploma programs must have grade of C- or better in all required courses.

Admission Requirements

Bachelor of science program entry is possible via

- direct admission from high school

- transfer from a recognized post-secondary institution*

- internal transfer from within Simon Fraser University

Admission is competitive. A separate admission average for each of the *three* entry routes is established each term, depending on spaces available and subject to the dean's approval. Admission averages are calculated on five required high school courses, or five or more required post-secondary courses. If one or more courses have been duplicated (repeated), the grades from all course attempts will be used equally to calculate the kinesiology admission GPA.

Direct Admission – High School and Direct Transfer, Post Secondary Institutions

See the Admissions section of this Calendar

Internal Transfer

Simon Fraser University students applying for Department of Biomedical Physiology and Kinesiology admission must complete the following courses with a grade of C- or better.

Students complete all of

- BISC 101-4 General Biology

- CHEM 121-4 General Chemistry and Laboratory I

- KIN 142-3 Introduction to Kinesiology

and one of

MATH 150-4 Calculus I with Review

MATH 151-3 Calculus I

MATH 154-3 Calculus I for the Biological Sciences

and one of

PHYS 101-3 Physics for the Life Sciences I

PHYS 120-3 Mechanics and Modern Physics

PHYS 125-3 Mechanics and Special Relativity

PHYS 140-4 Studio Physics–Mechanics and Modern Physics

Applicants are selected based on an admission grade point average (GPA) calculated over these five required courses, together with all of

CHEM 122-2 General Chemistry II

CHEM 281-4 Organic Chemistry I

KIN 201-3 Biomechanics

KIN 205-3 Introduction to Human Physiology

KIN 207-3 Human Motor Systems

STAT 201-3 Statistics for the Life Sciences

and one of

MBB 201-3 Biochemistry of the Cell

MBB 231-3 Cellular Biology and Biochemistry

and one of

MATH 152-3 Calculus II

MATH 155-3 Calculus II for the Biological Sciences

and one of

PHYS 102-3 Physics for the Life Sciences II

PHYS 121-3 Optics, Electricity and Magnetism

PHYS 126-3 Electricity, Magnetism and Light

PHYS 141-4 Studio Physics–Optics, Electricity and Magnetism

Apply for admission as soon as the five required courses have been completed. Unsuccessful applicants may complete any of the 10 additional courses to improve the admission GPA. A C- grade or better is required in each course used for the admission application. Those not meeting the kinesiology admission GPA upon completion of all four additional courses will be advised of alternatives

For students transferring some core courses from another post-secondary institution, only courses completed at Simon Fraser University (and not previously completed elsewhere) are used in the kinesiology admission GPA. Normally, at least 15 units from core courses are required as a basis for the GPA calculation. Exceptions must be approved by the department.

Application Procedure

Students should complete a program approval form which is available at the department's general office and submit it to the kinesiology advisor by July 1 for fall term approval, November 1 for spring term approval, or March 1 for summer term approval

TO :

Kinesiology Major Program

Department of Biomedical Physiology and Kinesiology | Faculty of Science □ Simon Fraser University Calendar 2011 Summer

This bachelor of science (BSc) degree offers students the option of completing either one of three concentrations, or completing the general program instead. The three areas of concentration are

- active health and rehabilitation kinesiology
- ergonomics/human factors
- health and physiological sciences

The program is accredited with the Canadian Council of University Physical Education and Kinesiology Administrators (CCUPEKA).

Please read descriptions of required KIN courses before enrolling in the program.

Note that students cannot combine: a kinesiology major with a biomedical physiology minor; nor a biomedical physiology major with a kinesiology minor; nor a double major in kinesiology and biomedical physiology; nor a double minor in kinesiology and biomedical physiology.

Prerequisite Course Grade

Students enrolling in kinesiology courses must have a grade of C- or better

in prerequisite courses. Students enrolled in kinesiology certificate, minor, major (including concentrations), honours, second degree, and post baccalaureate diploma programs must have grade of C- or better in all required courses.

Admission Requirements

Bachelor of science program entry is possible via

- direct admission from high school
- transfer from a recognized post-secondary institution
- internal transfer from within Simon Fraser University

Admission is competitive. A separate admission average for each of the three entry routes is established each term, depending on spaces available and subject to the dean's approval.

Direct Admission – High School

See the Admissions section of this Calendar

Post-Secondary Transfer

Students transferring to Simon Fraser University for the Kinesiology major will first transfer into the Faculty of Science as an 'intended major'. Students may then apply for admission to the Kinesiology major through the internal transfer process outlined below.

Internal Transfer

Simon Fraser University students applying to a major In Kinesiology must complete the following courses with a grade of C- or better.

Students complete all of

- BISC 101-4 General Biology
- CHEM 121-4 General Chemistry and Laboratory I
- KIN 142-3 Introduction to Kinesiology
- and one of
- MATH 150-4 Calculus I with Review
- MATH 151-3 Calculus I
- MATH 154-3 Calculus I for the Biological Sciences
- and one of
- PHYS 101-3 Physics for the Life Sciences I
- PHYS 120-3 Mechanics and Modern Physics

PHYS 125-3 Mechanics and Special Relativity
PHYS 140-4 Studio Physics–Mechanics and Modern Physics

Applicants are selected based on an admission grade point average (GPA) calculated over these five required courses, together with all of

CHEM 122-2 General Chemistry II
CHEM 281-4 Organic Chemistry I
KIN 201-3 Biomechanics
KIN 205-3 Introduction to Human Physiology
KIN 207-3 Human Motor Systems
STAT 201-3 Statistics for the Life Sciences
and one of
MBB 201-3 Biochemistry of the Cell
MBB 231-3 Cellular Biology and Biochemistry
and one of
MATH 152-3 Calculus II
MATH 155-3 Calculus II for the Biological Sciences
and one of
PHYS 102-3 Physics for the Life Sciences II
PHYS 121-3 Optics, Electricity and Magnetism
PHYS 126-3 Electricity, Magnetism and Light
PHYS 141-4 Studio Physics–Optics, Electricity and Magnetism

Apply for admission as soon as the five required courses have been completed. Unsuccessful applicants may complete any of the nine additional courses to improve the admission GPA. A C- grade or better is required in each course used for the admission application. Those not meeting the kinesiology admission GPA upon completion of all nine additional courses will be advised of alternatives. All courses completed towards the program will be included in the application process.

Normally, at least 15 units from core courses are required as a basis for the GPA calculation. Exceptions must be approved by the department.

Application Procedure

Students should complete a program approval form available at the biomedical physiology and kinesiology general office and submit it to the academic advisor by June 1 for fall term approval, October 1 for spring term approval, or February 1 for summer term approval.

SCUS 11-23 (b) Admission changes to the Kinesiology Minor

Motions:

1 – Under the section titled: Admission Requirements, first paragraph,

- a. Change 'three' to 'four' in first sentence
- b. Add the following sentence to the end: "At least one of the four courses must be KIN 105 or KIN 142."

2– Under the section titled: Admission Requirements, second paragraph:

- a. Change 'three' to 'four' in first sentence
- b. Remove the last sentence "If one or more have been duplicated (repeated), grades from all course attempts will be used equally to calculate kinesiology's admission GPA."
- c. Add the following sentence to the end of paragraph two: "All courses completed towards the program will be included in the application process".

3– Under the section titled: Admission Requirements, second paragraph:

- a. Add the following paragraph and title
Application Procedure

Students should complete a program approval form available at the Biomedical Physiology and Kinesiology general office and submit it to the academic advisor by June 1 for fall term approval, October 1 for spring term approval, or February 1 for summer term approval.

From:

Kinesiology Minor Program

Department of Biomedical Physiology and Kinesiology | Faculty of Science
Simon Fraser University Calendar 2011 Summer

Admission Requirements

Application can be made once ~~three~~ of the required lower division courses have been completed, each with a minimum grade of C-, and the program approval form (available from the undergraduate advisor) has been submitted.

Admission is competitive.

The admission grade point average (GPA) is calculated each term on the three required courses. If one or more have been duplicated (repeated), grades from all course attempts will be used equally to calculate kinesiology's admission GPA.

TO :

Kinesiology Minor Program

Department of Biomedical Physiology and Kinesiology | Faculty of Science
Simon Fraser University Calendar 2011 Summer

Admission Requirements

Application can be made once four of the required lower division courses have been completed, each with a minimum grade of C-, and the program approval form (available from the undergraduate advisor) has been submitted. At least one of the four courses must be KIN 105 or KIN 142.

Admission is competitive.

The admission grade point average (GPA) is calculated each term on the four required courses. All courses completed towards the program will be included in the application process.

Application Procedure

Students should complete a program approval form which is available at the department's general office and submit it to the kinesiology advisor by June 1 for fall term approval, October 1 for spring term approval, or February 1 for summer term approval.

SCUS 11-23 (c) Admission changes to the Calendar Entry for the Faculty of Science, Major in Biomedical Physiology:

- a. In the section titled: Prerequisite Course Grade, change 'kinesiology' to 'biomedical physiology', and remove '(including concentrations)':

*Students enrolling in kinesiology courses must have a grade of C- or better in prerequisite courses. Students enrolled in the **biomedical physiology** major must have grade of C- or better in all required courses.*

- b. Under section titled: Admission Requirements, remove the following sentence as the information is incorrect:

Admission averages are calculated on five required high school courses, or five or more required post-secondary courses.

- c. Under section titled: Admission Requirements, remove the following sentence to align with other programs in Faculty of Science:

If one or more courses have been duplicated (repeated), the grades from all course attempts will be used equally to calculate the kinesiology admission GPA.

- d. Remove " and Direct transfer, Post Secondary Institutions" from title: Direct Admission – High School

- e. After section titled: Direct Admission – High School, add the following section:

Post-Secondary Transfer

Students transferring to Simon Fraser University for the Biomedical Physiology major will first transfer into the Faculty of Science as an 'intended major'. Students may then apply for admission to the Biomedical Physiology major through the internal transfer process outlined below

- f. Under section titled: Internal Transfer, remove "KIN 207" as it is no longer offered in program
- g. Under section titled: Internal Transfer, add "BISC 102 -4 General Biology" to secondary list

Students complete all of

BISC 102-4 General Biology

CHEM 122-2 General Chemistry II

CHEM 281-4 Organic Chemistry I

KIN 201-3 Biomechanics

*KIN 205-3 Introduction to Human Physiology
MBB 222-3 Molecular Biology and Biochemistry
MBB 231-3 Cellular Biology and Biochemistry*

- h. Under section titled: Internal Transfer, change 'four' to 'ten' in last sentence of paragraph three:

Apply for admission as soon as the five required courses have been completed. Unsuccessful applicants may complete any of the 10 additional courses to improve the admission GPA. A C- grade or better is required in each course used for the admission application. Those not meeting the admission GPA upon completion of all ten additional courses will be advised of alternatives.

- i. Under section titled: Internal Transfer, add the following sentence to end of paragraph three:

All courses completed towards the program will be included in the application process.

- j. Under section titled: Internal Transfer, delete the following sentence of the last paragraph as it is not consistent with university practice: *For students transferring some core courses from another post-secondary institution, only courses completed at Simon Fraser University (and not previously completed elsewhere) are used in the kinesiology admission GPA.*

- k. Under section titled: Application Procedure, change the dates to June, October and February.

Students should complete a program approval form available at the kinesiology general office and submit it to the kinesiology advisor by June 1 for fall term approval, October 1 for spring term approval, or February 1 for summer term approval.

From :

Biomedical Physiology Major Program

Department of Biomedical Physiology and Kinesiology | Faculty of Science □ Simon Fraser University Calendar 2011 Summer

This program leads to a bachelor of science (BSc) in biomedical

physiology.

Note that students cannot combine: a kinesiology major with a biomedical physiology minor; nor a biomedical physiology major with a kinesiology minor; nor a double major in kinesiology and biomedical physiology; nor a double minor in kinesiology and biomedical physiology.

Prerequisite Course Grade

Students enrolling in kinesiology courses must have a grade of C- or better in prerequisite courses. Students enrolled in the kinesiology major (including concentrations) must have grade of C- or better in all required courses.

Admission Requirements

Bachelor of science program entry is possible via

- direct admission from high school
- transfer from a recognized post-secondary institution
- internal transfer from within Simon Fraser University

Admission is competitive. A separate admission average for each of the three entry routes is established each term, depending on spaces available and subject to the dean's approval. Admission averages are calculated on five required high school courses, or five or more required post-secondary courses. If one or more courses have been duplicated (repeated), the grades from all course attempts will be used equally to calculate the kinesiology admission GPA

Direct Admission – High School and Direct Transfer, Post Secondary Institutions

See Admission Requirements at students.sfu.ca/admission/requirements

Internal Transfer

Simon Fraser University students applying for Department of Biomedical Physiology and Kinesiology admission must complete the following courses with a grade of C- or better.

all of

BISC 101-4 General Biology
CHEM 121-4 General Chemistry and Laboratory I
KIN 142-3 Introduction to Kinesiology
and one of

MATH 150-4 Calculus I with Review
MATH 151-3 Calculus I
MATH 154-3 Calculus I for the Biological Sciences
and one of

PHYS 101-3 Physics for the Life Sciences I
PHYS 120-3 Mechanics and Modern Physics
PHYS 125-3 Mechanics and Special Relativity
PHYS 140-4 Studio Physics–Mechanics and Modern Physics
Applicants are selected based on an admission grade point average (GPA)
calculated over these five required courses, together with the following
courses.

Students complete all of

CHEM 122-2 General Chemistry II
CHEM 281-4 Organic Chemistry I
KIN 201-3 Biomechanics
KIN 205-3 Introduction to Human Physiology
KIN 207-3 Human Motor Systems
MBB 222-3 Molecular Biology and Biochemistry
MBB 231-3 Cellular Biology and Biochemistry
and one of

MATH 152-3 Calculus II
MATH 155-3 Calculus II for the Biological Sciences
and one of

PHYS 102-3 Physics for the Life Sciences II
PHYS 121-3 Optics, Electricity and Magnetism
PHYS 126-3 Electricity, Magnetism and Light
PHYS 141-4 Studio Physics–Optics, Electricity and Magnetism
and

STAT 201-3 Statistics for the Life Sciences
Apply for admission as soon as the five required courses have been
completed. Unsuccessful applicants may complete any of the 10 additional

courses to improve the admission GPA. A C- grade or better is required in each course used for the admission application. Those not meeting the kinesiology admission GPA upon completion of all four additional courses will be advised of alternatives.

For students transferring some core courses from another post-secondary institution, only courses completed at Simon Fraser University (and not previously completed elsewhere) are used in the kinesiology admission GPA. Normally, at least 15 units from core courses are required as a basis for the GPA calculation. Exceptions must be approved by the department.

Application Procedure

Students should complete a program approval form available at the kinesiology general office and submit it to the kinesiology advisor by July 1 for fall term approval, November 1 for spring term approval, or March 1 for summer term approval.

TO :

Biomedical Physiology Major Program

Department of Biomedical Physiology and Kinesiology | Faculty of Science □ Simon Fraser University Calendar 2011 Summer

This program leads to a bachelor of science (BSc) in biomedical physiology.

Note that students cannot combine: a kinesiology major with a biomedical physiology minor; nor a biomedical physiology major with a kinesiology minor; nor a double major in kinesiology and biomedical physiology; nor a double minor in kinesiology and biomedical physiology.

Prerequisite Course Grade

Students enrolling in kinesiology courses must have a grade of C- or better in prerequisite courses. Students enrolled in the biomedical physiology major must have grade of C- or better in all required courses.

Admission Requirements

Bachelor of science program entry is possible via

- direct admission from high school

- transfer from a recognized post-secondary institution

- internal transfer from within Simon Fraser University

Admission is competitive. A separate admission average for each of the three entry routes is established each term, depending on spaces available and subject to the dean's approval.

Direct Admission – High School

See Admission Requirements at students.sfu.ca/admission/requirements

Postsecondary Transfer

Students transferring to Simon Fraser University for the Biomedical Physiology major will first transfer into the Faculty of Science as an 'intended major'. Students may then apply for admission to the Biomedical Physiology major through the internal transfer process outlined below.

Internal Transfer

Simon Fraser University students applying for Department of Biomedical Physiology and Kinesiology admission must complete the following courses with a grade of C- or better

- all of

- BISC 101-4 General Biology

- CHEM 121-4 General Chemistry and Laboratory I

- KIN 142-3 Introduction to Kinesiology

- and one of

- MATH 150-4 Calculus I with Review

- MATH 151-3 Calculus I

- MATH 154-3 Calculus I for the Biological Sciences

- and one of

- PHYS 101-3 Physics for the Life Sciences I

- PHYS 120-3 Mechanics and Modern Physics

- PHYS 125-3 Mechanics and Special Relativity

- PHYS 140-4 Studio Physics–Mechanics and Modern Physics

Applicants are selected based on an admission grade point average (GPA) calculated over these five required courses, together with the following courses. Students complete all of

BISC 102-4 General Biology

CHEM 122-2 General Chemistry II

CHEM 281-4 Organic Chemistry I

KIN 201-3 Biomechanics

KIN 205-3 Introduction to Human Physiology

MBB 222-3 Molecular Biology and Biochemistry

MBB 231-3 Cellular Biology and Biochemistry

and one of

MATH 152-3 Calculus II

MATH 155-3 Calculus II for the Biological Sciences

and one of

PHYS 102-3 Physics for the Life Sciences II

PHYS 121-3 Optics, Electricity and Magnetism

PHYS 126-3 Electricity, Magnetism and Light

PHYS 141-4 Studio Physics—Optics, Electricity and Magnetism

and

STAT 201-3 Statistics for the Life Sciences

Apply for admission as soon as the five required courses have been completed. Unsuccessful applicants may complete any of the 10 additional courses to improve the admission GPA. A C- grade or better is required in each course used for the admission application. Those not meeting the admission GPA upon completion of all ten additional courses will be advised of alternatives. All courses completed towards the program will be included in the application process.

Normally, at least 15 units from core courses are required as a basis for the GPA calculation. Exceptions must be approved by the department.

Application Procedure

Students should complete a program approval form available at the biomedical physiology and kinesiology general office and submit it to the academic advisor by June 1 for fall term approval, October 1 for spring term approval, or February 1 for summer term approval.

SCUS 11-23 (d) Admission changes to the Biomedical Physiology Minor

- a. Add the following title and paragraph above section titled: Admission Requirements:

Prerequisite Course Grade

Students enrolling in kinesiology courses must have a grade of C- or better in prerequisite courses. Students enrolled in the biomedical physiology minor must have grade of C- or better in all required courses.

- b. In the section titled: Admission Requirements, remove current entry as these statements only apply to majors. Replace with:

Simon Fraser University students applying for biomedical physiology minor must complete the following courses with a grade of C- or better.

- c. Remove title and section: Direct Admission – High School and Direct Transfer, Post Secondary Institutions

- d. Remove title: Internal Transfer and the paragraph immediately following.

- e. Remove Kin 142, Kin 201, Kin 207, and STAT 201 as they are not in the minor program.

- f. Add BISC 102- 4 General Biology to secondary list as it is in minor program

- g. Change “five” to “four” in paragraph two.

- h. Change “ten” to “eight” in second sentence of paragraph three.

- i. Change “four” to “eight” in last sentence of paragraph three.

- j. Add the following sentence to end of paragraph three.

All courses completed towards the program will be included in the application process.

- k. Delete the following paragraph as it is not relevant to the Minor process:

For students transferring some core courses from another post-secondary institution, only courses completed at Simon Fraser University (and not previously completed elsewhere) are used in the kinesiology admission GPA. Normally, at least 15 units from core courses are required as a basis for the GPA calculation. Exceptions must be approved by the department.

i. Change the dates in the application procedures to June, October and February.

FROM :

Biomedical Physiology Minor Program

Department of Biomedical Physiology and Kinesiology | Faculty of Science
Simon Fraser University Calendar 2011 Summer

Admission Requirements

Bachelor of science program entry is possible via

direct admission from high school

transfer from a recognized post-secondary institution

internal transfer from within Simon Fraser University

Admission is competitive. A separate admission average for each of the three entry routes is established each term, depending on spaces available and subject to the dean's approval. Admission averages are calculated on five required high school courses, or five or more required post-secondary courses. If one or more courses have been duplicated (repeated), the grades from all course attempts will be used equally to calculate the kinesiology admission GPA.

Direct Admission – High School and Direct Transfer, Post Secondary Institutions

See Admission Requirements at
students.sfu.ca/admission/requirements

Internal Transfer

Simon Fraser University students applying for Department of Biomedical Physiology and Kinesiology admission must complete the following courses with a grade of C- or better.

all of

BISC 101-4 General Biology

CHEM 121-4 General Chemistry and Laboratory I

KIN 142-3 Introduction to Kinesiology
and one of

MATH 150-4 Calculus I with Review

MATH 151-3 Calculus I

MATH 154-3 Calculus I for the Biological Sciences
and one of

PHYS 101-3 Physics for the Life Sciences I

PHYS 120-3 Mechanics and Modern Physics

PHYS 125-3 Mechanics and Special Relativity

PHYS 140-4 Studio Physics–Mechanics and Modern Physics

Applicants are selected based on an admission grade point average (GPA) calculated over these five required courses, together with the following courses.

Students complete all of

CHEM 122-2 General Chemistry II

CHEM 281-4 Organic Chemistry I

KIN 201-3 Biomechanics

KIN 205-3 Introduction to Human Physiology

KIN 207-3 Human Motor Systems

MBB 222-3 Molecular Biology and Biochemistry

MBB 231-3 Cellular Biology and Biochemistry

and one of

MATH 152-3 Calculus II

MATH 155-3 Calculus II for the Biological Sciences
and one of

PHYS 102-3 Physics for the Life Sciences II

PHYS 121-3 Optics, Electricity and Magnetism

PHYS 126-3 Electricity, Magnetism and Light

PHYS 141-4 Studio Physics–Optics, Electricity and Magnetism
and

STAT 201-3 Statistics for the Life Sciences

Apply for admission as soon as the five required courses have been completed. Unsuccessful applicants may complete any of the 10 additional courses to improve the admission GPA. A C- grade or better is required in each course used for the admission application. Those not meeting the

kinesiology admission GPA upon completion of all four additional courses will be advised of alternatives.

For students transferring some core courses from another post-secondary institution, only courses completed at Simon Fraser University (and not previously completed elsewhere) are used in the kinesiology admission GPA. Normally, at least 15 units from core courses are required as a basis for the GPA calculation. Exceptions must be approved by the department.

Application Procedure

Students should complete a program approval form available at the kinesiology general office and submit it to the kinesiology advisor by July 1 for fall term approval, November 1 for spring term approval, or March 1 for summer term approval.

TO :

Biomedical Physiology Minor Program

Department of Biomedical Physiology and Kinesiology | Faculty of Science
Simon Fraser University Calendar 2011 Summer

Prerequisite Course Grade

Students enrolling in kinesiology courses must have a grade of C- or better in prerequisite courses. Students enrolled in the biomedical physiology minor must have grade of C- or better in all required courses.

Admission Requirements

Simon Fraser University students applying for a Biomedical Physiology minor must complete the following courses with a grade of C- or better:

all of

BISC 101-4 General Biology

CHEM 121-4 General Chemistry and Laboratory I

and one of

MATH 150-4 Calculus I with Review

MATH 151-3 Calculus I

MATH 154-3 Calculus I for the Biological Sciences

and one of

PHYS 101-3 Physics for the Life Sciences I
PHYS 120-3 Mechanics and Modern Physics
PHYS 125-3 Mechanics and Special Relativity
PHYS 140-4 Studio Physics–Mechanics and Modern Physics

Applicants are selected based on an admission grade point average (GPA) calculated over these four required courses, together with the following courses.

Students complete all of

BISC 102-4 General Biology
CHEM 122-2 General Chemistry II
CHEM 281-4 Organic Chemistry I
KIN 205-3 Introduction to Human Physiology
MBB 222-3 Molecular Biology and Biochemistry
MBB 231-3 Cellular Biology and Biochemistry

and one of

MATH 152-3 Calculus II
MATH 155-3 Calculus II for the Biological Sciences

and one of

PHYS 102-3 Physics for the Life Sciences II
PHYS 121-3 Optics, Electricity and Magnetism
PHYS 126-3 Electricity, Magnetism and Light
PHYS 141-4 Studio Physics–Optics, Electricity and Magnetism

Apply for admission as soon as the five required courses have been completed. Unsuccessful applicants may complete any of the eight additional courses to improve the admission GPA. A C- grade or better is required in each course used for the admission application. Those not meeting the kinesiology admission GPA upon completion of all eight additional courses will be advised of alternatives. All courses completed towards the program will be included in the application process.

Application Procedure

Students should complete a program approval form available at the biomedical physiology and kinesiology general office and submit it to the academic advisor by June 1 for fall term approval, October 1 for spring term approval, or February 1 for summer term approval.

Fwd: Easc 315

From : Rolf Mathewes <mathewes@sfu.ca>

Mon, 09 May, 2011 12:42

Subject : Fwd: Easc 315

To : Jo Hinchliffe <joah@sfu.ca>

Cc : Brent Ward <bcward@sfu.ca>

Jo:

Can you give me ruling on whether the exclusion statement below can be added to the calendar without further paperwork? It reflects an oversight if we did not catch it at SCUS. I cannot remember the details. Cheers, Rolf

----- Forwarded Message -----

From: "Brent Ward" <bcward@sfu.ca>

To: "Rolf Mathewes" <mathewes@sfu.ca>

Sent: Monday, 9 May, 2011 12:33:31

Subject: Fwd: Easc 315

Hi Rolf,

I don't think you replied. or possibly I missed it. If I need to make another change of description form.

----- Forwarded Message -----

From: "Brent Ward" <bcward@sfu.ca>

To: "Rolf Mathewes" <mathewes@sfu.ca>

Cc: "Tarja Vaisanen" <tvaisane@sfu.ca>, "Rosemary Hotell" <hotell@sfu.ca>

Sent: Wednesday, April 13, 2011 9:08:53 AM

Subject: Easc 315

Hi Rolf,

We just noticed a problem with the recent name and number change of:

EASC 412 Groundwater Geochemistry

to

EASC 315: Geochemistry of Natural Waters

We forgot to add something like "Students who already have credit for EASC 412 can not take EASC 315 for credit." Any change this was caught at SCUS? Or Senate?

If not, it is possible to make this change without filling out a complete course change form again.

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