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MEMORANDUM

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| ATTENTION | Senate | DATE | January 11, 2010 |
| FROM | Bill Krane, Chair | PAGES | 1/1 |
| RE: | Senate Committee on Undergraduate Studies Faculty of Applied Sciences | | |

For information:

Acting under delegated authority at its meeting of January 7, 2010, SCUS approved the following curriculum revisions:

1. School of Computing Science (SCUS 10-03b)

- (i) Changes to the lower division requirements for the GIS Major/Honors Program
- (ii) Prerequisite changes to CMPT 261, 275, 276, 300, 307, 371, 426 and 470
- (iii) Deletions of CMPT 322 and 376
- (iv) Revisions to the calendar language for the Software Systems Major program

2. School of Engineering Science (SCUS 10-09ii)

- 1. Prerequisite change to ENSC 460, 461, 462

Senators wishing to consult a more detailed report of curriculum revisions may do so on the Web at http://www.sfu.ca/senate/Senate_agenda.html following the posting of the agenda. If you are unable to access the information, please call 778-782-3168 or email bgrant@sfu.ca.

GIS HONORS - LOWER DIVISION REQUIREMENT CHANGES - MATH 151/152

FROM:

TO:

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| <p>Honors Program Lower Division Requirements CMPT 120-3 Introduction to Computing Science and Programming I CMPT 125-3 Introduction to Computing Science and Programming II CMPT 150-3 Introduction to Computer Design CMPT 225-3 Data Structures and Programming CMPT 275-4 Software Engineering I GEOG 100-3 Human Geography I GEOG 111-3 Earth Systems GEOG 250-3 Cartography I GEOG 253-3 Aerial Photographic Interpretation GEOG 255-3 Geographical Information Science I MACM 101-3 Discrete Mathematics I MACM 201-3 Discrete Mathematics II MATH 151-3 Calculus I MATH 152-3 Calculus II MATH 232-3 Applied Linear Algebra and one of GEOG 213-3 Introduction to Geomorphology GEOG 214-3 Climate and the Environment GEOG 215-3 Biogeography and one of GEOG 221-3 Economic Geography GEOG 241-3 Social Geography GEOG 261-3 Introduction to Urban Geography and one of GEOG 251-3 Quantitative Geography STAT 270-3 Introduction to Probability and Statistics (55 units) (45 units)</p> | <p>Honors Program Lower Division Requirements CMPT 120-3 Introduction to Computing Science and Programming I CMPT 125-3 Introduction to Computing Science and Programming II CMPT 150-3 Introduction to Computer Design CMPT 225-3 Data Structures and Programming CMPT 275-4 Software Engineering I GEOG 100-3 Human Geography I GEOG 111-3 Earth Systems GEOG 250-3 Cartography I GEOG 253-3 Aerial Photographic Interpretation GEOG 255-3 Geographical Information Science I MACM 101-3 Discrete Mathematics I MACM 201-3 Discrete Mathematics II MATH 151-3 Calculus I* MATH 152-3 Calculus II* MATH 232-3 Applied Linear Algebra and one of GEOG 213-3 Introduction to Geomorphology GEOG 214-3 Climate and the Environment GEOG 215-3 Biogeography and one of GEOG 221-3 Economic Geography GEOG 241-3 Social Geography GEOG 261-3 Introduction to Urban Geography and one of GEOG 251-3 Quantitative Geography STAT 270-3 Introduction to Probability and Statistics (55 units)</p> <p><u>*MATH 150 may be substituted for MATH 151, MATH 154/155 or MATH 157/158 with a grade of at least B+ may be substituted with permission of the School of Computing Science.</u></p> |
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Rationale:

Students in the Computing Science Major/Honors programs are permitted to substitute MATH courses as indicated in the bolded text above. Implementing this requirement for GIS students, whose academic credential is also through the School of Computing Science, ensures consistency in the academic preparation of students in CMPT courses. It also enables students transferring in from other faculties to use these substitute courses towards their GIS credential, provided their grade is sufficient.

GIS MAJOR - LOWER DIVISION REQUIREMENT CHANGES - MATH 151/152

FROM:

TO:

| | |
|--|--|
| <p>Major Program Lower Division Requirements Students complete all of CMPT 120-3 Introduction to Computing Science and Programming I CMPT 125-3 Introduction to Computing Science and Programming II CMPT 225-3 Data Structures and Programming GEOG 100-3 Human Geography I GEOG 111-3 Earth Systems GEOG 250-3 Cartography I GEOG 253-3 Aerial Photographic Interpretation GEOG 255-3 Geographical Information Science I MACM 101-3 Discrete Mathematics I MACM 201-3 Discrete Mathematics II MATH 151-3 Calculus I MATH 152-3 Calculus II MATH 232-3 Applied Linear Algebra and one of GEOG 213-3 Introduction to Geomorphology GEOG 214-3 Climate and Environment GEOG 215-3 Biogeography GEOG 221-3 Economic Geography GEOG 241-3 Social Geography GEOG 261-3 Introduction to Urban Geography and one of GEOG 251-3 Quantitative Geography STAT 270-3 Introduction to Probability and Statistics (45 units)</p> | <p>Major Program Lower Division Requirements Students complete all of CMPT 120-3 Introduction to Computing Science and Programming I CMPT 125-3 Introduction to Computing Science and Programming II CMPT 225-3 Data Structures and Programming GEOG 100-3 Human Geography I GEOG 111-3 Earth Systems GEOG 250-3 Cartography I GEOG 253-3 Aerial Photographic Interpretation GEOG 255-3 Geographical Information Science I MACM 101-3 Discrete Mathematics I MACM 201-3 Discrete Mathematics II <u>MATH 151-3 Calculus I*</u> <u>MATH 152-3 Calculus II*</u> MATH 232-3 Applied Linear Algebra and one of GEOG 213-3 Introduction to Geomorphology GEOG 214-3 Climate and Environment GEOG 215-3 Biogeography GEOG 221-3 Economic Geography GEOG 241-3 Social Geography GEOG 261-3 Introduction to Urban Geography and one of GEOG 251-3 Quantitative Geography STAT 270-3 Introduction to Probability and Statistics (45 units)</p> <p><u>*MATH 150 may be substituted for MATH 151, MATH 154/155 or MATH 157/158 with a grade of at least B+ may be substituted with permission of the School of Computing Science.</u></p> |
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Rationale:

Students in the Computing Science Major/Honors programs are permitted to substitute MATH courses as indicated in the bolded text above. Implementing this requirement for GIS students, whose academic credential is also through the School of Computing Science, ensures consistency in the academic preparation of students in CMPT courses. It also enables students transferring in from other faculties to use these substitute courses towards their GIS credential, provided their grade is sufficient.



EXISTING COURSE, CHANGES RECOMMENDED

Please check appropriate revision(s):

- Course number
- Credit
- Title
- Description
- Prerequisite
- Course deletion

Indicate number of hours for: Lecture _____ Seminar _____ Tutorial _____ Lab _____

| | |
|-------------------------------|-----------------------|
| FROM | TO |
| Course Number <u>CMPT 275</u> | Course Number _____ |
| Credits (Units) _____ | Credits (Units) _____ |

TITLE

(1) Long title for calendar and schedule, no more than 100 characters including spaces and punctuation.

(2) Short title for enrollment and transcript, no more than 30 characters including spaces and punctuation.

DESCRIPTION

DESCRIPTION

PREREQUISITE

CMPT 201 or 225, MACM 101, MATH 151, one W course.
MATH 154 or 157 with a grade of at least B+ may be substituted for MATH 151.

PREREQUISITE

CMPT 225, MACM 101, MATH 151, one W course. MATH 154 or 157 with at least B+ may substitute for MATH 151.
Cannot receive credit for both CMPT 276 and CMPT 275.

RATIONALE

CMPT 201 has not been offered for over five years. Students cannot receive credit for both CMPT 275 and 276.

Does this course replicate the content of a previously approved course to such an extent that students should not receive credit for both courses?
If so, this should be **noted in the prerequisite.**

Effective term and year Summer 2010



EXISTING COURSE, CHANGES RECOMMENDED

Please check appropriate revision(s):

- Course number, Credit, Title, Description, Prerequisite, Course deletion

Indicate number of hours for: Lecture, Seminar, Tutorial, Lab

FROM TO Course Number CMPT 276 Credits (Units)

TITLE

(1) Long title for calendar and schedule, no more than 100 characters including spaces and punctuation.

(2) Short title for enrollment and transcript, no more than 30 characters including spaces and punctuation.

DESCRIPTION

DESCRIPTION

PREREQUISITE CMPT 225, MACM 101. Students who have taken CMPT 275 may not take this course for further credit.

PREREQUISITE One W course, CMPT 225, MACM 101, MATH 151. MATH 154/157 with at least B+ may substitute for MATH 151. Cannot receive credit for both CMPT 275 and CMPT 276.

RATIONALE

see CMPT 275 change form

Does this course replicate the content of a previously approved course to such an extent that students should not receive credit for both courses? If so, this should be noted in the prerequisite.

Effective term and year Summer 2010



EXISTING COURSE, CHANGES RECOMMENDED

Please check appropriate revision(s):

- Course number
- Credit
- Title
- Description
- Prerequisite
- Course deletion

Indicate number of hours for: Lecture _____ Seminar _____ Tutorial _____ Lab _____

FROM **TO**

Course Number CMPT 300 Course Number _____

Credits (Units) _____ Credits (Units) _____

TITLE

(1) Long title for calendar and schedule, no more than 100 characters including spaces and punctuation.

(2) Short title for enrollment and transcript, no more than 30 characters including spaces and punctuation.

DESCRIPTION

DESCRIPTION

PREREQUISITE
CMPT 201 or 225, and MACM 101 or CMPT 205. Students with credit for CMPT 401 may not take CMPT 300 for further credit.

PREREQUISITE
CMPT 225 and MACM 101.

RATIONALE

CMPT 201 and 205 have not been offered for over five years. CMPT 300 is a prerequisite for CMPT 401. There restriction on not taking 300 after 401 is nonsensical.

Does this course replicate the content of a previously approved course to such an extent that students should not receive credit for both courses? If so, this should be **noted in the prerequisite**.

Effective term and year summer 2010

7.



EXISTING COURSE, CHANGES RECOMMENDED

Please check appropriate revision(s):

- Course number
- Credit
- Title
- Description
- Prerequisite
- Course deletion

Indicate number of hours for: Lecture _____ Seminar _____ Tutorial _____ Lab _____

FROM TO

Course Number CMPT 371 Course Number _____

Credits (Units) _____ Credits (Units) _____

TITLE

(1) Long title for calendar and schedule, no more than 100 characters including spaces and punctuation.

(2) Short title for enrollment and transcript, no more than 30 characters including spaces and punctuation.

DESCRIPTION

DESCRIPTION

PREREQUISITE
CMPT 201 or 225, CMPT/ENSC 150 and MATH 152. MATH 155 or 158 with a grade of at least B+ may be substituted for MATH 152.

PREREQUISITE
CMPT 225, CMPT/ENSC 150 and MATH 151. MATH 154 or 157 with a grade of at least B+ may be substituted for MATH 151.

RATIONALE

use of MATH 151 rather than 152 as a pre-requisite

Does this course replicate the content of a previously approved course to such an extent that students should not receive credit for both courses?
If so, this should be **noted in the prerequisite.**

Effective term and year Summer 2010



EXISTING COURSE, CHANGES RECOMMENDED

Please check appropriate revision(s):

- Course number
- Credit
- Title
- Description
- Prerequisite
- Course deletion

Indicate number of hours for: Lecture _____ Seminar _____ Tutorial _____ Lab _____

FROM **TO**

Course Number CMPT 470 Course Number _____

Credits (Units) _____ Credits (Units) _____

TITLE

(1) Long title for calendar and schedule, no more than 100 characters including spaces and punctuation.

(2) Short title for enrollment and transcript, no more than 30 characters including spaces and punctuation.

DESCRIPTION

DESCRIPTION

PREREQUISITE

CMPT 354. Students who have taken CMPT 474 may not take this course for further credit.

PREREQUISITE

CMPT 354.

RATIONALE

CMPT 470 and 474 are complementary, not overlapping.

Does this course replicate the content of a previously approved course to such an extent that students should not receive credit for both courses?
If so, this should be **noted in the prerequisite.**

Effective term and year Summer 2010



EXISTING COURSE, CHANGES RECOMMENDED

Please check appropriate revision(s):

- Course number
- Credit
- Title
- Description
- Prerequisite
- Course deletion

Indicate number of hours for: Lecture _____ Seminar _____ Tutorial _____ Lab _____

FROM **TO**

Course Number CMPT 322 Course Number _____

Credits (Units) _____ Credits (Units) _____

TITLE

(1) Long title for calendar and schedule, no more than 100 characters including spaces and punctuation.

(2) Short title for enrollment and transcript, no more than 30 characters including spaces and punctuation.

DESCRIPTION

DESCRIPTION

PREREQUISITE

PREREQUISITE

RATIONALE

This course was added incorrectly. The correct version is its writing-intensive equivalent, CMPT 322 W, which is in the calendar.

Does this course replicate the content of a previously approved course to such an extent that students should not receive credit for both courses?
If so, this should be **noted in the prerequisite**.

Effective term and year Summer 2010



EXISTING COURSE, CHANGES RECOMMENDED

Please check appropriate revision(s):

- Course number
- Credit
- Title
- Description
- Prerequisite
- Course deletion

Indicate number of hours for: Lecture _____ Seminar _____ Tutorial _____ Lab _____

FROM **TO**

Course Number CMPT 376 Course Number _____

Credits (Units) _____ Credits (Units) _____

TITLE

(1) Long title for calendar and schedule, no more than 100 characters including spaces and punctuation.

(2) Short title for enrollment and transcript, no more than 30 characters including spaces and punctuation.

DESCRIPTION

DESCRIPTION

PREREQUISITE

PREREQUISITE

RATIONALE

This course was added incorrectly. The correct version is its writing-intensive equivalent, CMPT 376 W, which is in the calendar.

Does this course replicate the content of a previously approved course to such an extent that students should not receive credit for both courses?
If so, this should be **noted in the prerequisite.**

Effective term and year Summer 2010

Moved that the program revisions to the Software Systems Major program be approved as follows (all revisions to p. 79 of 2009/2010 Calendar):

- Add MACM 201-3 to the “Fundamentals Requirements” section of the Software Systems Major Program description.

Rationale: MACM 201 is already an implied requirement since CMPT 307 and 379 require it. Most instructors who teach 307 do not think it wise to switch the MACM 201 requirement in 307 to MACM 101.

- Remove CMPT 322-3 from the Software Systems “Fundamentals Requirements” section.

Rationale: CMPT 322 is listed twice in this section; should keep the one listed as CMPT 322W.

- Replace

and one of
STAT 101-3 Introduction to Statistics
STAT 270-3 Introduction to Probability and Statistics

with

STAT 270-3 Introduction to Probability and Statistics

Rationale: The more rigorous introduction provided by STAT 270 is most appropriate to this program.

Scus 10-09ii



EXISTING COURSE, CHANGES RECOMMENDED

Please check appropriate revision(s):

Course number Credit Title Description Prerequisite Course deletion

Indicate number of hours for: Lecture _____ Seminar _____ Tutorial _____ Lab _____

FROM TO
Course Number ENSC 460-462-4 Course Number ENSC 461-4
Credits (Units) _____ Credits (Units) _____

TITLE

(1) Long title for calendar and schedule, no more than 100 characters including spaces and punctuation.

(2) Short title for enrollment and transcript, no more than 30 characters including spaces and punctuation.

DESCRIPTION

DESCRIPTION

PREREQUISITE

Permission of the Instructor

PREREQUISITE

To be determined by the instructor subject to approval by the department chair.

RATIONALE

ENSC-UCC approved that instructors are not allowed to impose specific requirements for courses; exceptions can only be made by formal UCC approval.

Does this course replicate the content of a previously approved course to such an extent that students should not receive credit for both courses? If so, this should be noted in the prerequisite.

Effective term and year spring 2010 _____

