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MEMORANDUM

ATTENTION	Senate	DATE	October 2, 2015
FROM	Mark Lechner, Acting Chair	PAGES	1/1
	Senate Committee on		
	Undergraduate Studies		
RE:	Faculty of Applied Sciences (SCUS 15-34)		

 Acting Chair

For information:

Acting under delegated authority at its meeting of October 1, 2015 SCUS approved the following curriculum revisions effective Summer 2016.

1. School of Computing Science

- (i) Upper and Lower Division requirement changes to the Information Systems in Business Administration and Computing Science Joint Major
- (ii) Prerequisite change to CMPT 295 and 376W



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MEMORANDUM

ATTENTION	Senate Committee on Undergraduate Studies	DATE	September 17, 2015
FROM	Ed Park, Associate Dean	PAGES	
RE:	Curriculum Changes		

The following changes have been approved by the FAS Undergraduate Curriculum Committee and are appended here for approval by SCUS and recommendation to Senate.

- 1.) School of Computing Science
 - a. Calendar Changes
 - CMPT BUS Joint Major program
 - b. Course Prerequisite Changes
 - CMPT 295
 - CMPT376W

Thank you,

A handwritten signature in black ink, appearing to read "Ed Park", with a long horizontal line extending to the right.

Edward Park
Associate Dean

(EP/mt)

Revision to Information Systems in Business Administration and Computing Science Joint Major

John Edgar

August 2015

Description

Update Joint Major for changes to the Computing Science curriculum.

The substance of the changes is:

1. Add CMPT 127-3 as a required course
2. Remove CMPT 126-3 as an alternative to the CMPT 120, (125 + 127) course sequence
3. Add CMPT 130 and CMPT 135 as an alternate sequence of introductory courses
4. Replace CMPT 275 with CMPT 276
5. Replace CMPT 150 with CMPT 295
6. Remove CMPT 370 from the requirements and replace with an additional 3 UD CMPT units

Rationale

1. CMPT 127 was created to address students' lack of programming experience early in the program, which was preventing progress in other classes. With the increased popularity of Computing Science, students are entering the program with less experience than in the past.
2. CMPT 126 has been identical to 125 in practice for the last several years. This course will be refreshed and targeted at non-majors only, and disallowed for majors (except by appeal on transfer in to a CMPT program).
3. To facilitate transfer from the Surrey-based Software Systems program, which requires CMPT 130 and CMPT 135.
4. CMPT 275 is a 4 credit course with a workload that is considered very difficult to manage for both students and instructors. CMPT 276 covers less material and has a smaller project and has been offered successfully at the Surrey campus since 2010. Students who wish to pursue farther studies in this area have a number of upper division options.
5. CMPT 150 has no pre-requisites and most students are not sufficiently prepared to address the topics of digital design and assembly language programming. We believe that digital design and computer architecture are subjects that can better be addressed in the second year of studies. CMPT 295 merges topics from CMPT 150 and CMPT 250 that are considered fundamental to an understanding of the digital systems underpinnings of computer systems and updates coverage of these topics.
6. CMPT 370 is no longer offered

Program Requirements

~~Students complete 120 units, as specified below~~

Lower Division Requirements

Students complete one of

BUEC 232 - Data and Decisions I (4)

STAT 270 - Introduction to Probability and Statistics (3)

~~and either~~

~~CMPT 126 - Introduction to Computing Science and Programming (3) *~~

~~or both of~~

~~CMPT 120 - Introduction to Computing Science and Programming I (3) *~~

~~CMPT 125 - Introduction to Computing Science and Programming II (3) *~~

and either all of

CMPT 120 - Introduction to Computing Science and Programming I (3) *

CMPT 125 - Introduction to Computing Science and Programming II (3) *

CMPT 127 - Computing Laboratory (3)*

or both of

CMPT 130 - Introduction to Computer Programming I (3) *

CMPT 135 - Introduction to Computer Programming II (3) *

and all of

BUS 251 - Financial Accounting I (3)

BUS 254 - Managerial Accounting I (3) **

BUS 272 - Behavior in Organizations (3)

~~CMPT 150 - Introduction to Computer Design (3)~~

CMPT 225 - Data Structures and Programming (3)

~~CMPT 275 - Software Engineering I (4)~~

CMPT 276 - Introduction to Software Engineering I (3)

CMPT 295 - Introduction to Computer Systems (3)

ECON 103 - Principles of Microeconomics (4)

ECON 105 - Principles of Macroeconomics (4)

MACM 101 - Discrete Mathematics I (3)
MACM 201 - Discrete Mathematics II (3)

and one of

MATH 150 - Calculus I with Review (4)
MATH 151 - Calculus I (3)
MATH 157 - Calculus I for the Social Sciences (3)

and one of

MATH 152 - Calculus II (3)
MATH 158 - Calculus II for the Social Sciences (3)

and one of

MATH 232 - Applied Linear Algebra (3)
MATH 240 - Algebra I: Linear Algebra (3)

and two of the following writing courses***

ENGL 101W - Introduction to Fiction (3)
ENGL 102W - Introduction to Poetry (3)
ENGL 103W - Introduction to Drama (3)
ENGL 104W - Introduction to Prose Genres (3)
ENGL 105W - Introduction to Issues in Literature and Culture (3)
ENGL 199W - Introduction to University Writing (3)
PHIL XX1 - Critical Thinking (3)
PHIL 100W - Knowledge and Reality (3)
PHIL 120W - Moral Problems (3)
WL 101W - Writing About Literature (3)
WL 103W - Pre-Modern World Literature (3)
WL 104W - Modern World Literature (3)

It is recommended that students complete *BUS 202 - Foundations for Collaborative Work Environments(3)* in order to ensure they possess the foundational skills in communication and collaboration necessary for successful completion of upper division business coursework. Students wishing to register in BUS 202 should consult with an Undergraduate Academic Advisor in the Beedie School of Business.

* to aid your choice, prior to enrolment, consult a CS advisor

** may be completed following admission to the Beedie School of Business

*** any one, but not more than one of these courses may be replaced by any three unspecified transfer units in English or in ENGL-Writing at the 100-or 200-level

Upper Division Requirements

Students complete all of

BUS 312 - Introduction to Finance (4)

BUS 336 - Data and Decisions II (4)

BUS 343 - Introduction to Marketing (3)

BUS 361 - Project Management (3)

BUS 468 - Managing Information Technology for Business Value (3)

BUS 478 - Strategy (3) ^

CMPT 300 - Operating Systems I (3)

CMPT 307 - Data Structures and Algorithms (3)

CMPT 320 - Social Implications - Computerized Society (3)

CMPT 354 - Database Systems I (3)

~~CMPT 370 - Information System Design (3)~~

and one of

BUS 374 - Organization Theory (3)

BUS 381 - Introduction to Human Resource Management (3)

and one of

BUS 466 - Web-Enabled Business (3)

CMPT 371 - Data Communications and Networking (3)

and ~~nine~~ twelve additional upper division CMPT units, excluding CMPT 301. At least one of the courses must be at the 400 division or above.

^ to be completed at Simon Fraser University



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MEMORANDUM

ATTENTION Senate Committee on Undergraduate Studies
FROM Andrew Gemino
RE: **Changes to Information Systems Joint Major with Business**
DATE September 18, 2015

The Beedie School of Business supports the proposed changes to the Information Systems Joint major by the Faculty of Applied Sciences' department of Computing Sciences. Specifically, the revision of the lower division requirements to include the completion of CMPT 120, 125 and 127, or CMPT 130 and CMPT 135, as well as the inclusion of CMPT 276 and CMPT 295. Additionally, the Beedie School supports the elimination of CMPT 126, 150 and 275 from the lower division requirements, as well as the removal of CMPT 370 and 3 units of general upper division CMPT units from the upper division requirements. The net outcome is an additional 2 units and a strengthened curriculum for our students.

Andrew Gemino, Associate Dean
Beedie School of Business

COURSE SUBJECT CMPT NUMBER 295 TITLE Introduction to Computer Systems

INSTRUCTIONS (OVERALL):

1. Using Microsoft Word draft changes using the following guideline. Paste in box below.
2. Rationale must be included. If more space is needed than provided below, please use the provided text box on page 2 of this document.
3. Indicate term = Fall, Spring, Summer

TYPE OF CHANGES RECOMMENDED

Please type 'X' for the appropriate revision(s):

☐	Course number	☐	Credit	☐	Title	☐	Description	☒	Prerequisite	☐	Deletion
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WORDING/DESCRIPTION EDITS

1. Indicate deleted or changed text using strikethrough.
2. Indicate added or new text using underline.
3. Equivalent courses: preclusion statement should read:
 - a. Students with credit for x cannot take y for further credit.

Prerequisite: ~~MACM 101- Discrete Mathematics I and (((CMPT 125- Introduction to Computing Science and Programming II and CMPT 127)- Computing Laboratory or CMPT 135) and MACM 101- Introduction to Computer Programming II. Either (MACM 101 and ((CMPT 125 and CMPT 127) or CMPT 135)) or (MATH 151 and CMPT 102 for students in an Applied Physics program)~~

SAMPLE

POL 223 ~~Canadian~~-American Political Economy (3)

~~An introductory study of America's~~ Canada's political economy, stressing the interrelated nature of Canada's economic and political life. ~~The course~~ Focuses on current economic problems and policies, taking into account the geographical, historical and political environments. Topics include the resource and industrial structures, research and development, the public sector, fiscal and monetary policy, the role of the state, trade and foreign ownership, energy, regional disparity, corporate concentration and the political economy of federalism.

~~This course is identical to CNS 280 and students cannot take both courses for credit.~~

Students with credit for CNS 280 cannot take POL 223 for further credit.

Recommended Pre-requisite: POL 100 or 101W.

Breadth – Social Sciences.

RATIONALE

If more space is needed, please use the provided text box on page 2 of this document

CMPT 295 is a required course for Applied Physics students and their route into this course is different from Computing Science Majors. The change addresses an oversight in the original course proposal.

EFFECTIVE TERM AND YEAR, FOR CHANGES

Fall, Spring, Summer and year (please enter in textbox)

Spring 2016

COURSE SUBJECT	CMPT	NUMBER	376W	TITLE	Technical Writing and Group Dynamics
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INSTRUCTIONS (OVERALL):

1. Using Microsoft Word draft changes using the following guideline. Paste in box below.
2. Rationale must be included. If more space is needed than provided below, please use the provided text box on page 2 of this document.
3. Indicate term = Fall, Spring, Summer

TYPE OF CHANGES RECOMMENDED

Please type 'X' for the appropriate revision(s):

	Course number	Credit	Title	Description	x	Prerequisite	Deletion
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WORDING/DESCRIPTION EDITS

1. Indicate deleted or changed text using striketrough.
2. Indicate added or new text using underline.
3. Equivalent courses: preclusion statement should read:
 - a. Students with credit for x cannot take y for further credit.

CMPT 275 or CMPT 276.**SAMPLE**POL 223 ~~Canadian-American~~ Political Economy (3)

An introductory study of ~~America's~~ Canada's political economy, stressing the interrelated nature of Canada's economic and political life. ~~The course~~ Focuses on current economic problems and policies, taking into account the geographical, historical and political environments. Topics include the resource and industrial structures, research and development, the public sector, fiscal and monetary policy, the role of the state, trade and foreign ownership, energy, regional disparity, corporate concentration and the political economy of federalism.

~~This course is identical to CNS 280 and students cannot take both courses for credit.~~

Students with credit for CNS 280 cannot take POL 223 for further credit.

Recommended Pre-requisite: POL 100 or 101W.

Breadth – Social Sciences.

RATIONALE

If more space is needed, please use the provided text box on page 2 of this document

CMPT 276 has replaced CMPT 275 as a required Software Engineering course for Computing Science Majors so will be taken by students instead of CMPT 275.

EFFECTIVE TERM AND YEAR, FOR CHANGES

Fall, Spring, Summer and year (please enter in textbox)

Summer 2016