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MEMORANDUM

ATTENTION Senate

DATE June 18, 2020

FROM Jeff Derksen,
Chair of Senate Graduate Studies
Committee (SGSC)

RE: Program Change

For information:

Acting under delegated authority at its meeting of June 8, 2020, SGSC approved the following program change, effective **Spring 2021**:

Faculty of Applied Sciences

School of Computing Science

- 1) Program change: Professional Computer Science MSc

MEMORANDUM

Attention Dr. Jeff Derksen
Dean, Graduate Studies

Date May 5, 2020

From Dr. Parvaneh Saeedi psaeedi@sfu.ca
Faculty of Applied Science, Graduate Studies Committee

Re: FAS-CMPT: Calendar Entry Change for Professional Computer Science

FAS School of Computing Science is proposing the following changes:

- 1) Adding new graduate computing science courses to the program
- 2) Making CMPT 756 a required course which all students in the program need to take.
- 3) CMPT 756 will replace the section of the calendar where students are required to take one of require CMPT 705, CMPT 706, CMPT 757, CMPT 813, CMPT 780
- 4) Removal of CMPT 705, CMPT 706 and CMPT 813 from course offerings

Rationale for change:

- 1) The new graduate computing science courses will be relevant to students in the Professional Computer Science program
- 2) To provide a solid foundation in algorithms and software engineering to all students within the program
- 3) To further unify the specializations within the program and strengthen the knowledge foundation of all students of the program.
- 4) CMPT 756 will cover relevant content for Professional Computer Science students which appears in CMPT 705 and CMPT 706. CMPT 756 will also cover topics which are relevant to students in this program and are not captured by CMPT 705 and CMPT 706. CMPT 813 course is seldom offered (offered 3 times in roughly 15 terms).

Please let me know if there are any questions or concern.

Regards,
Parvaneh Saeedi



MEMO

ATTENTION Parvaneh Saeedi, Associate Director

TEL

FROM Ghassan Hamarneh, Graduate Program Director

RE PMP Calendar Entry and ~~CMPT 756 Course Change~~

DATE May 27th 2020

TIME

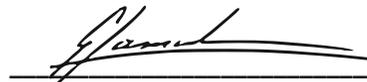
~~COURSE CHANGE PROPOSAL – Effective Spring 2021~~

CMPT 756

~~The title, description and prerequisites of this course are being changed to make the course relevant to students across all three specializations in the Professional Computer Science Master of Science program. The updated course will provide a solid foundation in algorithms and software engineering to these students.~~

CALENDAR ENTRY CHANGE – Effective Spring 2021

- Addition of new graduate computing science courses to the program
- CMPT 756 will become a required course which all students in the program need to take.
- CMPT 756 will replace the section of the calendar where students are required to take one of CMPT 705, 706, 757, 813, or 780.
- Cmp 705, 706, and 813 are removed as course offerings from the **program requirements** for the Master of Professional Computer Science (Master of Science).



Ghassan Hamarneh

Graduate Chair, School of Computing Science

Calendar Entry Change for Professional Computer Science (Master of Science)

<p>Summary of change:</p> <ol style="list-style-type: none"> 1) Adding new graduate computing science courses to the program 2) Making CMPT 756 a required course which all students in the program need to take. 3) CMPT 756 will replace the section of the calendar where students are required to take one of require CMPT 705, CMPT 706, CMPT 757, CMPT 813, CMPT 780 4) Removal of CMPT 705, CMPT 706 and CMPT 813 from course offerings
<p>Rationale for change:</p> <ol style="list-style-type: none"> 1) The new graduate computing science courses will be relevant to students in the Professional Computer Science program 2) To provide a solid foundation in algorithms and software engineering to all students within the program 3) To further unify the specializations within the program and strengthen the knowledge foundation of all students of the program. 4) CMPT 756 will cover relevant content for Professional Computer Science students which appear in CMPT 705 and CMPT 706. CMPT 756 will also cover topics which are relevant to students in this program and are not captured by CMPT 705 and CMPT 706. CMPT 813 course is seldom offered (offered 3 times in roughly 15 terms).
<p>Effective term and year: Spring 2021</p>
<p>Will this change impact current students? If yes, what is the plan for current students? Yes. Current students from the Fall 2019 intake who have not yet fulfilled (and may not have done so before Spring 2021 term) the requirement of taking one of CMPT 705, CMPT 706, CMPT 757, CMPT 813, CMPT 780. These students will be provided the option of taking one of the aforementioned courses to fulfill their degree requirement if the courses are offered in Spring 2021, otherwise, they will be allowed to take CMPT 756 or another relevant course to count towards the requirement.</p>

FROM	TO
<p>[...] Program Requirements</p> <p>Students complete CMPT 726 - Machine Learning (3)</p> <p>and one of CMPT 705 – Design and Analysis of Algorithms (3) CMPT 706 – Design and Analysis of Algorithms for Big Data (3) *</p>	<p>[...] Program Requirements</p> <p>Students complete all of CMPT 726 - Machine Learning (3) CMPT 756 – Distributed and Cloud Systems (3)</p> <p>and at least two of CMPT 741 - Data Mining (3) * CMPT 757 - Frontiers of Visual Computing (3) **</p>

~~CMPT 757 – Frontiers of Visual Computing (3) **~~
~~CMPT 813 – Computational Geometry (3)~~
~~CMPT 780 – Computer Security and Ethics (3) ***~~

and at least two of

CMPT 741 - Data Mining (3) *
~~CMPT 756 – Systems For Big Data (3) *~~
CMPT 764 - Geometric Modelling in Computer Graphics (3) **
CMPT 767 - Visualization (3)
CMPT 784 - Cyber Risk Assessment and Management (3) ***
CMPT 785 - Secure Software Design (3) ***
CMPT 786 - Cloud and Network Security (3) ***
CMPT 787 - Ethical Hacking (3) ***
CMPT 788 - Information Privacy (6) ***
CMPT 789 - Applied Cryptography (3) ***
CMPT 820 - Multimedia Systems (3)
CMPT 822 - Computational Vision (3) **
CMPT 825 - Natural Language Processing (3)
IAT 814 - Visualization and Visual Analytics (3)
STAT 852 - Modern Methods in Applied Statistics (4)

and one of

CMNS 815 - Social Construction of Communication Technologies (5)
CMPT 829 - Special Topics in Bioinformatics (3)
CMPT 886 - Special Topics in Operating Systems (3)
CMPT 889 - Special Topics in Interdisciplinary Computing (3)
CMPT 980 - Special Topics in Computing Science (3)
CMPT 981 - Special Topics in Theoretical Computing Science (3)
CMPT 982 - Special Topics in Networks and Systems (3)
CMPT 983 - Special Topics in Artificial Intelligence (3)

CMPT 762 – Computer Vision (3)**

CMPT 764 - Geometric Modelling in Computer Graphics (3) **
CMPT 766 – Computer Animation and Simulation (3) **
CMPT 767 - Visualization (3)
CMPT 770 – Parallel and Distributed Computing (3) *
CMPT 780 - Computer Security and Ethics (3) ***
CMPT 784 - Cyber Risk Assessment and Management (3) ***
CMPT 785 - Secure Software Design (3) ***
CMPT 786 - Cloud and Network Security (3) ***
CMPT 787 - Ethical Hacking (3) ***
CMPT 788 - Information Privacy (6) ***
CMPT 789 - Applied Cryptography (3) ***
CMPT 820 - Multimedia Systems (3)
CMPT 822 - Computational Vision (3) **
CMPT 825 - Natural Language Processing (3)
IAT 814 - Visualization and Visual Analytics (3)
STAT 852 - Modern Methods in Applied Statistics (4)

and one of

CMPT 727 – Statistical Machine Learning (3)
CMPT 728 – Introduction to Deep Learning (3)
CMPT 729 – Introduction to Reinforcement Learning (3)
CMPT 763 – Biomedical Computer Vision (3)
CMNS 815 - Social Construction of Communication Technologies (5)
CMPT 829 - Special Topics in Bioinformatics (3)
CMPT 886 - Special Topics in Operating Systems (3)
CMPT 889 - Special Topics in Interdisciplinary Computing (3)

CMPT 984 - Special Topics in Databases,
Data Mining, Computational Biology (3)
CMPT 985 - Special Topics in Graphics, HCI,
Visualization, Vision, Multimedia (3) **

[...]

CMPT 980 - Special Topics in Computing
Science (3)
CMPT 981 - Special Topics in Theoretical
Computing Science (3)
CMPT 982 - Special Topics in Networks and
Systems (3)
CMPT 983 - Special Topics in Artificial
Intelligence (3)
CMPT 984 - Special Topics in Databases,
Data Mining, Computational Biology (3)
CMPT 985 - Special Topics in Graphics,
HCI, Visualization, Vision, Multimedia (3)
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[...]