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SFU GRADUATE AND POSTDOCTORAL STUDIES

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MEMORANDUM

ATTENTION Senate

DATE June 18, 2020

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

RE: New Course Proposal

For information:
Acting under delegated authority at its meeting of June 8, 2020, SGSC approved the following new course, effective **Spring 2021:**

Faculty of Applied Science
School of Computing Science

1) New course: CMPT 863 Advanced Topics in Human-Computer Interaction

Senators wishing to consult a more detailed report of curriculum revisions may do so on the Senate Docushare repository at https://docushare.sfu.ca/dsweb/View/Collection-12682

OFFICE OF THE DEAN
Faculty of Applied Sciences
Simon Fraser University

MEMORANDUM

Attention Dr. Jeff Derksen Date June 1, 2020
Dean, Graduate Studies

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

Re: FAS-CMPT: New course proposal (CMPT 863) and ~~Calendar Entry Change (CMPT 767)~~

1. A Special Topics course (CMPT 888, CMPT 985) has been piloted by professor Chilana since Spring 2017, with increased demand for each offering. FAS School of Computing Science is proposing to make this a permanent course offered to graduate students under CMPT 863.

~~2. The description of CMPT 767 is changed to eliminate the prerequisites that no longer exist~~

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

Regards,
Parvaneh Saeedi

SFU

COMPUTING SCIENCE

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ATTENTION	**Parvaneh Saeedi, Associate Director**
FROM	Ghassan Hamarneh, Graduate Program Director
RE	New Course Proposal – CMPT 863
DATE	March 27 , 2020

NEW COURSE PROPOSAL - Effective Spring 2021

CMPT 863 – Advanced Topics in Human-Computer Interaction

A Special Topics course (CMPT 888, CMPT 985) has been piloted by Professor Chilana since Spring 2017, with increased demand each time. The School would like to make this a permanent offering for graduate students. This has been approved by the GPC and director.

If you have any questions, please let me know.

Ghassan Hamarneh
Graduate Chair, School of Computing Science

SFU GRADUATE AND POSTDOCTORAL STUDIES

New Graduate Course Proposal

Course Subject (eg. PSYC) CMPT	Number (eg. 810) 863	Units (eg. 4) 3

Course title (max. 100 characters)

Advanced Topics in Human-Computer Interaction

Short title (for enrollment/transcript - max. 30 characters) Human-Computer Interaction

Course description for SFU Calendar (course descriptions should be brief and should never begin with phrases such as "This course will..." or "The purpose of this course is..." If the grading basis is satisfactory/unsatisfactory include this in the description)

Advanced topics in human-computer interaction (HCI) will be introduced for better understanding end users, solving a variety of problems in the design of technology, and inventing novel forms of interaction. Focus will be on current trends in HCI research, design of interactive systems, and user-centered evaluation techniques.

Rationale for introduction of this course

Prof Chilana has been doing a pilot for this course as a special topics course (CMPT 888, 985) since Spring 2017 and the demand has been increasing every semester (we had 60 students willing to take this year's offering). So, we would like this course to be offered permanently as part of graduate

Term of initial offering (eg. Fall 2019) Spring 2021	Course delivery (eg. 3 hrs/week for 13 weeks) 3 hrs/week for 13 weeks
Frequency of offerings/year 1 per year	Estimated enrollment per offering 30

Equivalent courses (courses that replicates the content of this course to such an extent that students should not receive credit for both courses)

None

Prerequisite and/or Corequisite None

Criminal record check required? ☐ Yes if yes is selected, add this as prerequisite

Additional course fees? ☐ Yes ☑ No

Campus where course will be taught ☑ Burnaby ☐ Surrey ☐ Vancouver ☐ Great Northern Way ☐ Off campus

Course Components* ☑ Lecture ☐ Seminar ☐ Lab ☐ Independent ☐ Capstone ☐ _____

Grading Basis ☑ Letter grades ☐ Satisfactory/Unsatisfactory ☐ In Progress / Complete

Repeat for credit? ☐ Yes ☑ No

Total repeats allowed? 0

Repeat within a term? ☐ Yes ☑ No

Required course? ☐ Yes ☑ No

Final exam required? ☑ Yes ☐ No

Capstone course? ☐ Yes ☑ No

Combined with a undergrad course? ☐ Yes ☑ No If yes, identify which undergraduate course and the additional course requirements for graduate students:

* See important definitions on the curriculum website.

RESOURCES

If additional resources are required to offer this course, provide information on the source(s) of those additional resources.

Faculty member(s) who will normally teach this course
Parmit Chilana
Additional faculty members, space, and/or specialized equipment required in order to offer this course
Sheelagh Carpendale

CONTACT PERSON

Academic Unit / Program	Name (typically, Graduate Program Chair)	Email
CMPT	Ghassan Hamarneh	hamarneh@sfu.ca

ACADEMIC UNIT APPROVAL

A course outline must be included.

Non-departmentalized faculties need not sign

Graduate Program Committee Ghassan Hamarneh	Signature	Date 26 Mar. 2020
Department Chair Mohamed Hefeeda	Signature	Date 26 March 2020

FACULTY APPROVAL

The course form and outline must be sent by FGSC to the chairs of each FGSC (fgsc-list@sfu.ca) to check for an overlap in content

Overlap check done? ☑ YES

This approval indicates that all the necessary course content and overlap concerns have been resolved. The Faculty/Academic Unit commits to providing the necessary resources.

Faculty Graduate Studies Committee Parvaneh Saeedi	Signature	Date June 1, 2020

A library review will be conducted. If additional funds are necessary, DGS will contact the academic unit prior to SGSC.

SENATE GRADUATE STUDIES COMMITTEE APPROVAL

Senate Graduate Studies Committee Jeff Derksen	Signature	Date June 18, 2020

ADMINISTRATIVE SECTION (for DGS office only)

Library Check: yes
Course Attribute: _____
Course Attribute Value: _____
Instruction Mode: _____
Attendance Type: _____

If different from regular units:
Academic Progress Units: _____
Financial Aid Progress Units: _____

SIMON FRASER UNIVERSITY

SCHOOL OF COMPUTING SCIENCE

Course Syllabus - **CMPT 863** (Advanced Topics in Human-Computer Interaction)

Course Description

Advanced topics in human-computer interaction (HCI) will be introduced for better understanding end users, solving a variety of problems in the design of technology, and inventing novel forms of interaction. Focus will be on current trends in interdisciplinary HCI research, design of interactive systems, and user-centered evaluation techniques. Students will work on a semester-long research project related to HCI. Classes will be held in the form of lectures, seminars, paper reading, and open discussions.

Course Topics and Objectives

By the end of this course students should be able to:

- *engage* in intelligent discourse about human-computer interaction research
- *identify* key user interaction challenges/ problems with modern technologies
- *explain* the benefits and drawbacks of user-centred design/ HCI
- *conduct* lab-based observational usability testing evaluations
- *apply* a variety of methods (e.g., interviews, surveys) to gather design requirements from target users
- *design and evaluate* interactive systems and techniques using different levels of prototyping fidelity
- *articulate* and *justify* design decisions, study details, and findings in written and oral presentations

Grading

The breakdown of grade assignments is as follows:

Individual (45%)	
Class attendance and participation	5%
Written Discussion Papers	10%
In-class Quizzes	20%
In-class Discussion Lead Activity	10%
Group Project (55%)	
Part 1 – Project proposal	5%
Part 2 – Usability Testing & Competitive Analysis	15%
Part 3 – Requirements Gathering and Initial Designs	15%
Part 4 – User Interface Prototypes	10%
Part 5 – Final paper & presentation	10%

Materials

Course material will be extracted from the current literature. The readings will be available through Canvas or through the SFU Library System.