S.21-117



OFFICE OF THE ASSOCIATE VICE-PRESIDENT, ACADEMIC

8888 University Drive,

TEL: 778.782.6654

avpacad@sfu.ca

Burnaby, BC Canada V5A 1S6 FAX: 778.782.5876

www.sfu.ca/vpacademic

MEMORANDUM

ATTENTION Senate October 15, 2021

FROM Wade Parkhouse, Chair PAGES 1/1

Senate Committee on Undergraduate

Studies

RE: New Course Proposal

For information:

Acting under delegated authority at its meeting of October 14, 2021 SCUS approved the following curriculum revision effective Summer 2022.

a. Faculty of Applied Sciences (SCUS 21-68)

1. School of Computing Science

(i) New Course Proposals: CMPT 403 – 3, System Security and Privacy

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.



NEW COURSE PROPOSAL

1 OF 4 PAGES

COURSE SUBJECT	CMPT		NUMBER	403			
COURSE TITLE LONG System Security		chedule, no more than	100 characters inclu	ding spaces and	punctuation		
COURSE TITLE SHOP System Security		nt/transcript, no more t	han 30 characters in	cluding spaces a	nd punctuation		
CAMPUS where course	e will be normally t	aught: 🚺 Burnaby	Surrey	Vancouver	Great North	ern Way	Off campus
Starting from cylconfidentiality, in to find weakness security practices	persecurity printegrity, systemes in software,	nciples, students n availability, and hardware, netwo	will learn to pr d user privacy.	otect system By modelin	s from attacks g system secu	s on data crity, stud	ents will learn
REPEAT FOR CREDIT	_	NO Total con	mpletions allowed		Within a term?	YES	NO
NOTE: Senate has appr		no new course should	be approved by Ser	nate until fundin	g has been commit	ted for neces	ssary library

RATIONALE FOR INTRODUCTION OF THIS COURSE

please visit www.lib.sfu.ca/about/overview/collections/course-assessments.

This course introduces the many aspects of system security and privacy in a holistic manner; any vulnerability in a system is a potential exploit and a cybersecurity professional needs to be able to analyze any such weakness. As a 4th year cybersecurity course that connects software security, cryptography, data security, and network security, it fills a niche in the current CMPT program. This course also introduces important privacy concepts and issues that are increasingly concerning in a data-rich world. We also cover legal and ethical aspects of cybersecurity and how technical solutions interact with them.

Interest in this course may also bolster intake for the Cybersecurity Specialization of the Master of Science in the Professional Computer Science Program.

materials. Each new course proposal must be accompanied by the email that serves as proof of assessment. For more information,



SCHEDULING AND ENROLLMENT INFORMATION

Effective term and year (e.g. FALL 2016) SUMMER 2022
Term in which course will typically be offered Spring Summer Fall Other (describe)
Will this be a required or elective course in the curriculum? Required Elective
What is the probable enrollment when offered? Estimate: 80
UNITS Indicate number of units: 3
Indicate no. of contact hours: 3 Lecture 0 Seminar 1 Tutorial 0 Lab 0 Other; explain below
OTHER
FACULTY
Which of your present CFL faculty have the expertise to offer this course?
Tao Wang
WQB DESIGNATION
(attach approval from Curriculum Office)

PREREQUISITE AND / OR COREQUISITE

CMPT300



EQUIVALENT COURSES [For more information on equivalency, see Equivalency Statements under Information about Specific Course components.] **1. SEQUENTIAL COURSE** [is not hard coded in the student information management system (SIMS).] Students who have taken (place relevant course(s) in the blank below (ex: STAT 100)) first may not then take this course for further credit. **2. ONE-WAY EQUIVALENCY** [is not hard coded in SIMS.] (Place relevant course(s) in the blank below (ex: STAT 100)) will be accepted in lieu of this course. **3. TWO-WAY EQUIVALENCY** [is hard coded and enforced by SIMS.] Students with credit for (place relevant course(s) in the blank below (ex: STAT 100)) may not take this course for further credit. Does the partner academic unit agree that this is a two-way equivalency? YES NO Please also have the partner academic unit submit a course change form to update the course equivalency for their course(s). 4. SPECIAL TOPICS PRECLUSION STATEMENT [is not hard coded in SIMS.] **FEES** YES Are there any proposed student fees associated with this course other than tuition fees? **COURSE - LEVEL EDUCATIONAL GOALS (OPTIONAL)**



RESOURCES

List any outstanding resource issues to be addressed prior to implementation: space, laboratory equipment, etc:

All resources including suggested readings will be openly available for students through the course website.

OTHER IMPLICATIONS
Final exam required YES NO
Criminal Record Check required YES VO
OVERLAP CHECK
Checking for overlap is the responsibility of the Associate Dean.
Each new course proposal must have confirmation of an overlap check completed prior to submission to the Faculty Curriculum Committee.
Name of Originator
Tao Wang