UNIVERSITY OF THE FRASER VALLEY

ORIGINAL COURSE IMPLEMENTATION DATE: September 2000
REVISED COURSE IMPLEMENTATION DATE: September 2018
COURSE TO BE REVIEWED: (six years after UEC approval) January 2024
Course outline form version: 04/25/14

OFFICIAL UNDERGRADUATE COURSE OUTLINE FORM

Note: The University reserves the right to amend course outlines as needed without notice.

Course Code and Number: CIS 496	**Number of Credits:** 3 Course credit policy (105)
Course Full Title: Advanced Topics in Computer Applications **Course Short Title (if title exceeds 30 characters):** Adv. Topics in Computer Apps	
Faculty: Faculty of Professional Studies	**Department (or program if no department):** Computer Information Systems

Calendar Description:

This course examines up-to-date technologies and issues in computer information systems applications. Topics may include artificial intelligence, application programming, advanced web site design, e-commerce, object-oriented technology, user interface design, computer graphics, CASE tools, and others.

Note: This course will be offered under different letter designations (e.g. C-Z) representing different topics. This course may be repeated for credit provided the letter designation differs.

Prerequisites (or NONE):	Admission to the Bachelor of Computer Information Systems and (one of COMP 350, COMP 351, or COMP 360) or (9 credits of 300-level and above CIS or COMP). Note: Students accepted to a CIS or Computing Science minor may register with permission of the department. Note: As of January 2019, prerequisites will change to: Admission to the Bachelor of Computer Information Systems and 9 credits of 300-level and above CIS or COMP. Note: Students accepted to a CIS or Computing Science minor may register with permission of the department.
Corequisites (if applicable, or NONE):	NONE
Pre/corequisites (if applicable, or NONE):	NONE

Equivalent Courses (cannot be taken for additional credit)
Former course code/number:
Cross-listed with:
Equivalent course(s):
Note: Equivalent course(s) should be included in the calendar description by way of a note that students with credit for the equivalent course(s) cannot take this course for further credit.

Transfer Credit
Transfer credit already exists: ☐ Yes ☒ No
Transfer credit requested (OReg to submit to BCCAT):
☐ Yes ☒ No (if yes, fill in transfer credit form)
Resubmit revised outline for articulation: ☐ Yes ☒ No
To find out how this course transfers, see **bctransferguide.ca**.

Total Hours: 45
Typical structure of instructional hours:

Lecture hours	45
Seminars/tutorials/workshops	
Laboratory hours	
Field experience hours	
Experiential (practicum, internship, etc.)	
Online learning activities	
Other contact hours:	
Total	**45**

Special Topics
Will the course be offered with different topics?
☒ Yes ☐ No
If yes, different lettered courses may be taken for credit:
☐ No ☐ Yes, repeat(s) ☒ Yes, no limit
Note: The specific topic will be recorded when offered.

Maximum enrolment (for information only): 35

Expected frequency of course offerings (every semester, annually, every other year, etc.): once per year

Department / Program Head or Director: Daniel Harris	**Date approved:**	January 27, 2017
Faculty Council approval	**Date approved:**	April 7, 2017
Campus-Wide Consultation (CWC)	**Date of posting:**	November 17, 2017
Dean/Associate VP: Tracy Ryder Glass	**Date approved:**	April 7, 2017

Undergraduate Education Committee (UEC) approval	**Date of meeting:**	January 26, 2018

Learning Outcomes

Upon successful completion of this course, students will be able to:

- apply in-depth knowledge of recent information system technologies to solve technological or business problems
- evaluate the effectiveness of an information system technology solution in a specific problem domain
- design solutions that integrate existing technology with the latest information technologies in a particular area

Prior Learning Assessment and Recognition (PLAR)

☒ Yes ☐ No, PLAR cannot be awarded for this course because

Typical Instructional Methods (guest lecturers, presentations, online instruction, field trips, etc.; may vary at department's discretion)

Lectures, hands-on experience where applicable.

Grading system: Letter Grades: ☒ Credit/No Credit: ☐ Labs to be scheduled independent of lecture hours: Yes ☐ No ☒

NOTE: The following sections may vary by instructor. Please see course syllabus available from the instructor.

Typical Text(s) and Resource Materials (if more space is required, download Supplemental Texts and Resource Materials form)

For sample topic "Cryptographic Tokens: Applications in E-commerce"

	Author (surname, initials)	Title (article, book, journal, etc.)	Current ed.	Publisher	Year
1.	Mougayar, William	The Business Blockchain: Promise, Practice, and Application of the Next Internet Technology	☒	Wiley	2016
2.	Tapscott, Don	Blockchain Revolution: How the Technology Behind Bitcoin is Changing Money, Business, and the World	☒	Penguin	2016
3.	Diedrich, Henning	Ethereum: Blockchains, Digital Assets, Smart Contracts, Decentralized Autonomous Organizations	☒	Wildfire	2016
4.			☐		
5.			☐		

Required Additional Supplies and Materials (software, hardware, tools, specialized clothing, etc.)

Determined by instructor and topic.

Typical Evaluation Methods and Weighting

Final exam:	35%	Assignments:	30%	Midterm exam:	35%	Practicum:	%
Quizzes/tests:	%	Lab work:	%	Field experience:	%	Shop work:	%
Other:	%	Other:	%	Other:	%	Total:	100%

Details (if necessary):

Typical Course Content and Topics

For sample topic "Cryptographic Tokens: Applications in E-commerce"

Week 1: Introduction to course and overview of topic
Week 2: State of the art in E-commerce
Week 3: History of blockchain technologies
Week 4: Limitations, challenges, and recent innovations in the cryptographic token technology space
Week 5: Social token technologies
Week 6: Autonomous capital
Week 7: Economic and Regulatory issues.
Week 8: Distributed ledger and debt based crypto-currency
Week 9: Web 3.0 – next generation web applications
Week 10: Autonomous prediction markets
Week 11: Monetization and implications for business
Week 12: Future trends