

ORIGINAL COURSE IMPLEMENTATION DATE: September 2012
REVISED COURSE IMPLEMENTATION DATE: January 2019
COURSE TO BE REVIEWED: (six years after UEC approval) February 2024

Course outline form version: 09/15/14

# OFFICIAL UNDERGRADUATE COURSE OUTLINE FORM

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

Course Code and Number: BUS 424		Numb	Number of Credits: 3 Course credit policy (105)				
Course Full Title: Customer Intelligence							
Course Short Title (if title exceeds 30 characters):							
Faculty: Faculty of Professional Studies			Department (or program if no department): School of Business				
Calendar Description:  To be competitive, marketing executives need to make their decisions based on data. This course gives marketing students the skills necessary to analyze marketing problems using data analytics, to make evidence-based management decisions.							
Prerequisites (or NONE):	60 universi	tv-level cr	edits i	ncludina E	BUS 320.		
Corequisites (if applicable, or NONE):	60 university-level credits including BUS 320.  None						
Pre/corequisites (if applicable, or NONE):	None						
Equivalent Courses (cannot be taken for additional credit) Former course code/number: BUS 470, BUS 390I Cross-listed with: Equivalent course(s): BUS 470, BUS 390I 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.  Total Hours: 45 Typical structure of instructional hours:  Lecture hours 5 Seminars/tutorials/workshops 20 Laboratory hours 20 Field experience hours				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 bctransferquide.ca.  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			
Experiential (practicum, internship, etc.) Online learning activities				Note: The specific topic will be recorded when offered.  Maximum enrolment (for information only): 25			
Other contact hours:	Total	45	_	Expected frequency of course offerings (every semester, annually, every other year, etc.): Annually			
Department / Program Head or Director: Dr. Frank Ulbrich					Date approved:	October 31, 2017	
Faculty Council approval				Date approved:	December 8, 2017		
Campus-Wide Consultation (CWC)					Date of posting:	February 16, 2018	
Dean/Associate VP: Dr. Tracy Ryder Glass					Date approved:	December 8, 2017	
Undergraduate Education Committee (UEC) approval				Date of meeting:	February 23, 2018		

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Lear	ning Outcomes							
Upor	successful completion of	this course,	students will	be able to:				
LO2. LO3. LO4. LO5.	Demonstrate how custom Combine marketing and a Identify which analytical r Use a wide variety of ana Evaluate model performa Apply industry standard a	analytical kn nethod to us llytics techni nces using	owledge to o se for a giver ques such a graphical and	Irive decision business p s pattern dis d numerical	ns and actions, roblem, and what data is r covery and predictive mod methods,	equired to add delling in data i	ress the problem, mining,	insights,
Prior	Learning Assessment a	nd Recogni	tion (PLAR)					
⊠ Y	es 🗌 No, PLAR cani	not be awar	ded for this c	ourse becau	ise:			
٠.	cal Instructional Methods ires, seminars, and labs.	s (guest lectu	ırers, present	ations, onlin	e instruction, field trips, etc	.; may vary at o	department's discre	tion)
Grad	ing system: Letter Grades	s: 🛛 Credi	t/No Credit:	Labs	to be scheduled independ	dent of lecture	hours: Yes  No	$\boxtimes$
NOT	E: The following sections	may vary	by instructo	r. Please se	ee course syllabus availa	able from the	instructor.	
Typi	cal Text(s) and Resource	Materials (	f more space	is required,	download Supplemental Te	xts and Resou	rce Materials form)	
	Author (surname, initials)		Title (article	e, book, jourr	nal, etc.)	Current ed.	Publisher	Year
1.	「an, P-N., Kumar, V., & Ste	einbach, M.	Introduction	on to Data M	lining		Addison-Wesley	
2. 8	SAS Institute Inc.		Applied An Course No		g SAS Enterprise Miner		SAS Books	
-	uired Additional Supplies osoft Office.	and Materi	als (software	, hardware, t	ools, specialized clothing,	etc.)		
Турі	cal Evaluation Methods a	nd Weighti	ng					
Fina	al exam: -	Assiann	nents:	25%	Midterm exam:	- Prac	ticum:	-

Final exam:	-	Assignments:	25%	Midterm exam:	-	Practicum:	-
Quizzes/tests:	25%	Lab work:	-	Field experience:		Shop Work:	-
In-class cases:	10%	Term project:	30%	Presentation:	10%	Total:	100%

# Details (if necessary):

# **Typical Course Content and Topics**

#### Module One:

- Introduction to predictive modeling
- Accessing, preparing, and exploring data
- Class participation (LO 1–3)
- Quiz #1 (LO 1–3)
- Assignment #1 (LO 3)
- Mini-presentation #1 (LO 3)

## Module Two:

- Decision trees
- Regression models
- Neural networks
- Class participation (LO 3, 4)
- Quiz #2-4 (LO 4)
- Assignment #2–4 (LO 4)
- Mini-presentation #2–4 (LO 4)

## Module Three:

- Pattern discovery (market-basket, sequence, and cluster analysis)
- Dimensionality reduction
- Class participation (LO 4)

## Module Four:

- Model assessment and implementation
- Class participation (LO 5)
- Quiz #5 (LO 5)
- Assignment #5 (LO 5)
- Mini-presentation #5 (LO 5)

Data mining term project (LO 1-6)

Term project report and presentation (LO 1-6)

Class participation (LO 1-6)