UNIVERSITY OF WATERLOO

WATERLOO ONTARIO

STATISTICS 332

SURVEY SAMPLING

Course Materials

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Statistics 332 is a course about the theory and practice of survey sampling. The course is provided for students in the 4-year Bachelor of Mathematics program; it is one of a number of 300- and 400-level specialist courses intended to develop knowledge of, and skills in, the subject of Statistics. Details are given overleaf.

1998-09-20

NOTE: Please be *sure* you are going to take this course this term – there are *no* refunds on these Course Materials.

Content overview for STAT 332 (about 32 lectures):

- **Part 1**: Introductory review of data-based investigating (about 3 lectures).
- **Part 2**: Equiprobable (and systematic) selecting from an unstratified population (about 21 lectures).
- **Part 3**: Design and execution of sample surveys (about 4 lectures).
- **Part 4**: Equiprobable selecting from a stratified population (about 4 lectures).
- Review (if time permits).

This overview is a list of four major *areas* appropriate for a one-term applied course on survey sampling at a 3*rd*-year level; some flexibility is possible in the *order* in which individual topics within the areas are covered. A tentative schedule of the course topics and activities, for forty-eight 50-minute classes (in two 2-hour time slots per week), is as follows:

WEEK	Class	COURSE ACTIVITIES 1st hour	2nd hour	Assignment
#1 (September 14)	1	Course outline, Part 1		Assignment 1
	2	Part 1, *Tutorial 1*		
#2 (September 21)	1	Figures 2.1 and 2.2		
	2	Figures 2.3, 2.4 and 2.5		Assignment 2 Assignment 3
#3 (September 28)	1	*Tutorial 2*, Figures 2.6-2.12		
	2	Figures 2.6-2.12, *Tutorial 3*		
#4 (October 05)	1	Figure 2.13		
	2	Video, *Tutorial 4*, Figure 2.14		Assignment 4
#5 (October 12)	1	University holiday		
	2	*Tutorial 5*	**QUIZ #1**	
#6 (October 19)	1	Figure 2.14		
	2	Figure 2.15		
#7 (October 26)	1	Video, Figure 2.15, *Tutorial 6*		
	2	Part 3		Assignment 5
#8 (November 02)	1	Part 3, *Tutorial 7*		
	2	Part 3, Video	**QUIZ #2**	
#9 (November 09)	1	*Tutorial 8*, Figure 2.16		Assignment 6
	2	Figure 2.16		
#10 (November 16)	1	*Tutorial 9*, Figure 2.17		Assignment 7
	2	Figure 2.17, *Tutorial 10*		
#11 (November 23)	1	Figure 4.2, *Tutorial 11*		Assignment 8
	2	Figures 4.2 and 4.3	**QUIZ #3**	
#12 (November 30)	1	Figures 4.3, 4.4 and 4.5		Assignment 9
	2	Figure 2.19, *Tutorial 12*		Assignment 10
#13 (December 07)	1	Figure 2.19, *Tutorial 13*		

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