UNIVERSITY OF WATERLOO WATERLOO ONTARIO

STATISTICS 332

SURVEY SAMPLING

Course Materials

W. H. Cherry Department of Statistics and Actuarial Science

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.

University of Waterloo STAT 332 – W. H. Cherry

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 3rd-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 ACT 1st hour	IVITIES 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			
#5 (October 12)	1	University holiday			
	2	Tutorial 5	QUIZ #1	A aci 4	
#6 (October 19)	1	Figure 2.14		Assignment 4	
	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		Assissant	
	2	Figure 2.16		Assignment 6	
#10 (November 16)	1	Tutorial 9, Figure 2.17 Figure 2.17, Tutorial 10 Assignr		1	
	2			Assignment 7	
#11 (November 23)	1	Figure 4.2, Tutorial 11			
	2	Figures 4.2 and 4.3	QUIZ #3	Assignment 8	
#12 (November 30)	1	Figures 4.3, 4.4 and 4.5		Assignment 9	
	2	Figure 2.19, Tutorial 12			
#13 (December 07)	1	Figure 2.19, Tutorial 13		Assignment 10	

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