MATH-4843 INTRODUCTION TO SAMPLING

Instructor: Dr. Chulmin Kim (Boyd 326)
Phone & Email: 678-839-4142 ckim@westga.edu The ONLY email accepted
Lecture: TR 9.30-10.45 am (Boyd 305)
Office hours: TR 9-9.30 am (Boyd 205) & 1-2 pm (Boyd 326) & by appoint.

Course Objectives

This course will consider applied principles and approaches for conducting a sample survey, designing a survey, and analyzing a survey. Also this will cover sampling design and analysis methods that would be useful for research and management in many field. A well designed sampling procedure ensures that we can summarize and analyze data with a minimum of assumptions and complications.

Suggested Text (required)

- Elementary Survey Sampling, 7th Ed., by Scheaffer, Mendenhall, Ott and Gerow

Weekly HW & Summarizing Assignments by week

- Week 1 (By Jan 10) Syllabus
- Week 2 (By Jan 17) Summarize 2.1-2.7 in at least 7 pages
- Week 3 (By Jan 24) Chapter 2 (2, 4, 6, 25, 26, 28, 29, 30)
- Week 4 (By Jan 31) Summarize 3.1-3.7 in at least 7 pages
- Week 5 (By Feb 7) Chapter 3 (2, 4, 6, 10, 12, 14, 16, 17, 18, 19, 20)
- Week 6 (Feb 14) EX#1 (Ch2.1-3.7)
- Week 7 (By Feb 21) Summarize 4.1-4.7 in at least 7 pages
- Week 8 (By Feb 28) Chapter 4 (1, 2, 4, 9, 10, 14, 15, 16, 17, 20, 21, 41, 42, 44)
- Week 9 (By Mar 7) Summarize 5.1-5.7 in at least 7 pages
- Week 10 (By Mar 14) Chapter 5 (1, 2, 3, 5, 6, 7, 8, 9, 10, 11, 17, 18, 19, 20, 29, 30)
- Week 11 SPRING BREAK
- Week 12 (By Mar 28) Summarize 6.1-6.7 in at least 7 pages
- Week 13 (By Apr 4) Chapter 6 (1, 2, 3, 4, 5, 8, 10, 12, 13, 14, 15, 17, 18, 19, 26, 29)
- Week 14 (By Apr 11) Summarize 7.1-7.7 in at least 7 pages
- Week 15 (By Apr 18) Chapter 7 (1, 2, 5, 6, 7, 8, 9, 10, 11, 12, 14, 15, 17, 18, 19, 20)
- Week 16 (Apr 25) EX#2 (Ch4.1-7.7)
- FINAL (May 2) FINAL (Ch2.1-7.7) 8-10 am

You can discuss HW however you have to use your own words. To fail this will result 0. Exams are open book and open notes with calculator. However you must be separate.

Point allocation: Summarizing 6x15=90, HW 6x15=90, EX1=70, EX2=100, F=150. You get an A if total>=450, B if total>=400, C if total>=350, D if total>=300. F, otherwise. And the deadline for the “W” is Feb 27.

I expect you to spend at least more than 6 hours per week. And missing a class results 10 points (2%) minus! Good luck!