

STAT 354 (Spring 2016)

Sampling Techniques

Instructor: Dr. J. Zhou
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Prerequisite: STAT 256 or 261

Textbook: *Elementary Survey Sampling*, Seventh Edition, 2012
by R.L. Scheaffer, W. Mendenhall, III, R.L. Ott, K.G. Gerow

Lecture Hours: TWF 10:30am - 11:20am, CLE D132

Office Hours: TF 1:30 - 2:30pm, *or by appointment*

Topics: Chapter 1 - Chapter 10 of textbook, which include simple random sampling, stratified random sampling, systematic sampling, cluster sampling, two-stage cluster sampling, and various estimation methods.

Statistics Software: R will be used for selecting samples and analyzing data.

CourseSpaces: Some data sets, R programs and exercise questions will be posted on the CourseSpaces: <http://coursespaces.uvic.ca/>.

Determination of Final Grade:

Assignments:	To be announced	15%
Three quizzes:	To be announced	$3 \times 5\% = 15\%$
Midterm test:	Feb 17, 2016	20%
Final Examination:	To be scheduled	50%

There are three assignments, which will be announced in class. If you work together on these assignments, it is expected that everyone writes up his/her solution independently. Straightforward copying is expressly forbidden, and anyone caught doing this will be dealt with severely. **Late assignments will not be accepted for marking.** Regardless of the reason, **there will be no make-up midterm test.** If you miss the midterm test due to illness, accident, or family affliction, you should notify me upon returning to classes, and provide a written request to be excused as well as supporting documentation. In such cases, the 20% for this midterm test will be divided between the final exam (10%) and the quizzes (10%).

The assignments, quizzes and midterm test will be returned in class, or can be claimed during office hours. Any term work that is not collected by the end of the final exam period will be recycled. If you have a question or concern about an assigned mark, you need to bring it to my attention within seven calendar days of the date when it is returned in class.

Calculator: A calculator is allowed in midterm test and final examination in this course, and the only acceptable calculator is the Sharp EL-510R or the Sharp EL-510RNB. It may be purchased at the UVic Bookstore or elsewhere for about \$12.

Emails: Due to the large number of students that I teach and many research and committee meetings that I have, it is often impossible to answer every email quickly. For this reason, if you use email to make an appointment with me, please use “**Subject: STAT 354**” and give me at least 24 hours to reply your email. It is also very hard to use email for math and stats technical questions. Please use my office hours for technical questions and R programming problems. I will do my best to help you.

Course Experience Survey (CES):

I value your feedback on this course. Towards the end of term, as in all other courses at UVic, you will have the opportunity to complete an anonymous survey regarding your learning experience (CES). The survey is vital to providing feedback to me regarding the course and my teaching, as well as to help the department improve the overall program for students in the future. When it is time for you to complete the survey you will receive an email inviting you to do so. You will need to use your UVic netlink ID to access the survey, which can be done on your laptop, tablet, or mobile device. I will remind you and provide you with more detailed information nearer the time. I take your comments seriously and thank you in advance for them.

Course policy: The Department of Mathematics and Statistics course policy is on the next two pages. Please read it carefully.

Important scheduling information:

Classes begin - Monday, January 4, 2016
Drop (100% Fee Reduction) - Sunday, January 17, 2016
Last Day to Add Courses - Wednesday, January 20, 2016
Drop (50% Fee Reduction) - Sunday, February 7, 2016
Family Day (no classes) - Monday, February 8, 2016
Reading Break (no classes) - February 9-12, 2016
Academic Drop Date - Monday, February 29, 2016
Last day of classes - Monday, April 4, 2016
Examination period - April 7 - April 22, 2016