

The Ohio State University
Colleges of the Arts and Sciences Course Change Request

Statistics

Academic Unit

Statistics

651

Book 3 Listing (e.g., Portuguese)

Course Number

Summer Autumn Winter X Spring Year 2007

Proposed effective date: choose one quarter and put an "X" after it; and fill in the year. See the OAA curriculum manual for deadlines.

A. Course Offerings Bulletin Information. Follow instructions in the OAA curriculum manual. Before you fill out the "Present Course" information, be sure to check the latest edition of the *Course Offerings Bulletin* and subsequent Circulating Forms. You may find that the changes you need have already been made or that additional changes are needed. If the course offered is less than quarter or term, please also complete the Flexibly Scheduled/OffCampus/Workshop Request form.

COMPLETE ALL ITEMS THIS COLUMN

Present Course

1. Book 3 Listing: Survey Sampling Methods
2. Number: 651
3. Full Title: Survey Sampling Methods
4. 18-Char. Transcript Title: SURVEY SAMPL METH
5. Level and Credit Hours G 4
6. Description: Sampling from finite populations, simple random, stratified systematic, and cluster sampling designs, ratio and regression estimates; non-sampling errors. (25 words or less)
7. Qtrs. Offered : winter
8. Distribution of Contact Time: 2 2 hr cl (e.g., 3 cl, 1 3-hr lab)
9. Prerequisite(s): 521 or permission to instructor. Not open to students with credit for PubH-Bio 651. Cross-listed in Public Health: Biometrics
10. Exclusion: (Not open to....)
11. Repeatable to a maximum of _____ credits.
12. Off-Campus Field Experience:
13. Cross-listed with:
14. Is this a GEC course?
15. Grade option (circle): Ltr X S/U P
If P graded, what is the last course in the series?
16. Is an honors version of this course available?

17. Other general course information:

COMPLETE ONLY THOSE ITEMS THAT CHANGE

Changes Requested

1. _____
2. _____
3. _____
4. _____
5. UG
6. _____
7. _____
8. _____
9. 521 or permission to instructor. Not open to students with credit for PubH-Bio 651.
10. _____
11. _____
12. _____
13. _____
14. _____
15. _____
16. _____

17.

B. General Information

1. Do you want the prerequisites enforced electronically (see the OAA manual for what can be enforced)?

2. Does this course currently satisfy any GEC requirement, if so indicate which category?

3. What other units require this course? Have these changes been discussed with those units?

4. Have these changes been discussed with academic units that might have a jurisdictional interest in the subject matter? Attach relevant letters.

5. Is the request contingent upon other requests, if so, list the requests?

6. Purpose of the proposed change. (If the proposed change affects the content of the course, attach a revised syllabus and course objectives and e-mail to ascurofc@osu.edu.)

7. Please list Majors/Minors affected by the proposed change. Attach revisions of all affected programs. This course is (check one):

<input type="checkbox"/> Required on major(s)/minor(s)	<input type="checkbox"/> A choice on major(s)/minors(s)
<input type="checkbox"/> An elective within major(s)/minor(s)	<input type="checkbox"/> A general elective:

8. Describe any changes in library, equipment or other teaching aids needed as a result of the proposed change or if the proposed change involves budgetary adjustments, describe the method of funding:

Approval Process The signatures on the lines in ALL CAPS (e.g. ACADEMIC UNIT) are required.

- | | | |
|--|---|-------------------------|
| 1. Academic Unit Undergraduate Studies Committee Chair | Printed Name | Date |
| 2. Academic Unit Graduate Studies Committee Chair | Printed Name | Date |
| 3. <i>Douglas A. Wolfe</i>
ACADEMIC UNIT CHAIR/DIRECTOR | <i>Douglas A. Wolfe</i>
Printed Name | <i>12/29/05</i>
Date |
| 4. After the Academic Unit Chair/Director signs the request, forward the form to the ASC Curriculum Office, 105 Brown Hall, 190 West 17 th Ave. or fax it to 688-5678. Attach the syllabus and any supporting documentation in an e-mail to ascurofc@osu.edu . The ASC Curriculum Office will forward the request to the appropriate committee. | | |
| 5. <i>John Parson</i>
COLLEGE CURRICULUM COMMITTEE | <i>John Parson</i>
Printed Name | <i>1/12/06</i>
Date |
| 6. <i>Eduard Adels</i>
ARTS AND SCIENCES EXECUTIVE DEAN | <i>Eduard Adels</i>
Printed Name | <i>1/13/06</i>
Date |
| 7. Graduate School (if appropriate) | Printed Name | Date |
| 8. University Honors Center (if appropriate) | Printed Name | Date |
| 9. Office of International Affairs (study tours only) | Printed Name | Date |
| 10. ACADEMIC AFFAIRS | Printed Name | Date |

Statistics 651: Survey Sampling Methods

Summer 2005

Instructor: R. Scott Linder. 204B Cockins Hall, 247-6314. rsl@stat.ohio-state.edu

Office Hours: Monday and Wednesday, 2-3pm and by appointment.

Course Assistant: Zhenhuan Cui. 227 Cockins Hall, 688-8406, zhenhuan@stat.ohio-state.edu

Office Hours: Tuesday, 11am-12pm.

Text: Lohr, S. (1999), Sampling: Design and Analysis. Duxbury.

Prerequisites:

A good background in Statistics 520 and 521, or at least 10 hours of mathematical statistics and permission from the instructor. You should have a good working understanding of the notions of expectation and variance, common discrete probability distributions, probability and estimation.

Computing:

Because this is an applied course, you'll need to do some computing. Much of the homework will involve using the program SURVEY to illustrate the ideas we develop in class. If you don't already have one, you will receive an account on the Statistics Department machine, which you'll need to use in order to run SURVEY.

Homework:

There will be five to seven assignments given during the quarter. Solutions will be handed out when assignments are collected, so no late assignments will be accepted. All computer output submitted must be edited and annotated so that the grader can easily follow your work. It's important that you write answers to problems in the context of the problem, using correct units.

Midterm Exam:

Our midterm exam is (tentatively) scheduled for Monday, July 25, and will take the entire class session. You may bring to the exam for use a single sheet (8.5" x 11", front and back) of handwritten notes.

Final Exam:

Our final exam is scheduled for Tuesday, August 23, 11:30am-1:18pm. You may use two sheets of handwritten notes for this exam.

Grades:

Your course average will be determined according to the following weights:

Homework: 30%

Midterm Exam: 35%

Final Exam: 35%

In previous quarters the median course average has earned a grade of A- or B+.

Topics Covered:

Introduction and history of sampling; Questionnaire design and question writing; Simple random sampling; Ratio estimation; Regression estimation; Stratified sampling; One-stage and two-stage cluster sampling; Sampling with unequal probabilities; Design effects; Nonsampling errors; Strategies for dealing with nonresponse; Estimation of population size; Related topics.