

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

Department of Statistics

Academic Unit

Statistics

133H

Book 3 Listing (e.g., Portuguese)

Course Number

Summer      Autumn x      Winter      Spring      Year 2006 (yearly)

**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: Statistics
2. Number: 133
3. Full Title: Statistics for Business Sciences
4. 18-Char. Transcript Title: STAT BUS SCI
5. Level and Credit Hours U5 (pending course change request)
6. Description: Introduction to the basic concepts of probability and statistics; sample statistics, discrete and continuous probability distributions; confidence intervals and estimation.  
(25 words or less)
7. Qtrs. Offered : Su, Au, Wi, So
8. Distribution of Contact Time: 3 hrs lecture; 2 hours recitation (pending stat 133 course change request)  
(e.g., 3 cl, 1 3-hr lab)
9. Prerequisite(s): Math 132
10. Exclusion:  
(Not open to....)
11. Repeatable to a maximum of NA credits.
12. Off-Campus Field Experience: NA
13. Cross-listed with: NA
14. Is this a GEC course? Yes
15. Grade option (circle): Ltr      S/U      P  
If P graded, what is the last course in the series?

16. Is an honors version of this course available? Currently being proposed

17. Other general course information:

**COMPLETE ONLY THOSE ITEMS THAT CHANGE  
Changes Requested**

- 1.
2. 133H
3. Honors Statistics for Business Sciences
4. HONORS STAT BUS SCI
- 5.
6. In-depth introduction to the fundamental concepts of probability and statistics using a calculus-based problem solving approach. Sample statistics, discrete and continuous distributions, confidence intervals and estimation.
7. Au
8. 3 80-minute lecture/labs in computer lab
- 9 Math 152
- 10.
- 11.
- 12.
- 13.
- 14.

15. \_\_\_\_\_

17. Stat 133H is open to students enrolled in an honors program or by permission of instructor.

16. \_\_\_\_\_

**B. General Information**

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

2. Does this course currently satisfy any GEC requirement, if so indicate which category? Yes-quantitative skills and logic

3. What other units require this course? Have these changes been discussed with those units? Yes; Business College has approved and been involved in the design of this course. See attached letters of support.

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? No

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 [asccurrofc@osu.edu](mailto:asccurrofc@osu.edu).)

Statistics 133 currently enrolls between 400-500 students per quarter. There is always a contingent of 50 or so students who do extremely well in the course, who have had a strong calculus background, and are ready to apply it. However, due to the overall math level of students coming into Statistics 133, we are unable to really inject calculus into the course beyond a few quick explanations and sideline discussions of how it could be used. It is very important to let those students who are well prepared in calculus have the experience and gain the knowledge from applying their calculus background to problems in business statistics. These skills are a critical part of the honors business programs.

There is also a strong honors contingent in the business college, and there is strong support among faculty in business for having an honors statistics course for those students to take, to increase their problem solving skills, and their understanding of statistics beyond what we are able to cover in Stat 133. Namely they want the students to understand the theoretical underpinnings and methodology of statistical thinking, and develop and apply the decision making skills that come from that level of statistical understanding. Honors students, as well as students who are very strong in calculus, are capable of developing these skills, and are motivated to do so by their business programs.


7. Please list Majors/Minors affected by the proposed change. Attach revisions of all affected programs. This course is (check one):  Required on major(s)/minor(s)  A choice on major(s)/minors(s)  An elective within major(s)/minor(s)  A general elective:

Stat 133 is required by students enrolled in the Business College.


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:

Will require 5 hours faculty teaching time per autumn quarter, and one graduate student to serve as a grader (25% time). Department of statistics will bear this added expense.

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

1.  MICHAEL FLIGNER 11/17/06  
Academic Unit Undergraduate Studies Committee Chair Printed Name Date

2. \_\_\_\_\_ Printed Name Date

3.  DOUGLAS A. WOLFE 11/17/06  
ACADEMIC UNIT CHAIR/DIRECTOR Printed Name 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<sup>th</sup> Ave. or fax it to 688-5678. Attach the syllabus and any supporting documentation in an e-mail to [asccurrofc@osu.edu](mailto:asccurrofc@osu.edu). The ASC Curriculum Office will forward the request to the appropriate committee.

5. COLLEGE CURRICULUM COMMITTEE	Printed Name	Date
6. ARTS AND SCIENCES EXECUTIVE DEAN	Printed Name	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

Colleges of the Arts and Sciences Curriculum Office. 08/09/05