

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

Statistics

Academic Unit

Statistics

746

Book 3 Listing (e.g., Portuguese)

Course Number

Summer      Autumn      Winter X      Spring      Year 06

**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: Design and Analysis of Experiments
2. Number: 746
3. Full Title: Design and Analysis of Experiments
4. 18-Char. Transcript Title: DSGN & ANLY EXPER
5. Level and Credit Hours U G 3
6. Description: Theory of the general linear models; lest square estimates and properties, especially in non-full rank models; analysis of variance technique; factorial designs. (25 words or less)
7. Qtrs. Offered : Winter
8. Distribution of Contact Time: 3 1 hr cl (e.g., 3 cl, 1 3-hr lab)
9. Prerequisite(s):742
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. G
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- 7.
- 8.
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- 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 [asccurrofc@osu.edu](mailto:asccurrofc@osu.edu).)
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:
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
<i>Douglas A. Wolfe</i>	<i>Douglas A. Wolfe</i>	<i>12/29/05</i>
3. 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 <a href="mailto:asccurrofc@osu.edu">asccurrofc@osu.edu</a> . The ASC Curriculum Office will forward the request to the appropriate committee.		
<i>John Parson</i>	<i>John Parson</i>	<i>1/12/06</i>
5. COLLEGE CURRICULUM COMMITTEE	Printed Name	Date
<i>Eduard Aleman</i>	<i>Eduard Aleman</i>	<i>1/13/06</i>
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



STATISTICS 746 - SYLLABUS

Winter 2006

CH 420 M, W, F 9:30 - 10:18

INSTRUCTOR: Bill Notz, Cockins 319, 292 -3154  
email: win@stat.ohio-state.edu

OFFICE HOURS: TBA

TEXT: *Experiments* by Wu and Hamada

SOME REFERENCES: *Linear Models* by Searle  
*The Analysis of Variance* by Scheffe  
*Theory and Application of the Linear Model* by Graybill  
*Linear Regression Analysis* by Seber  
*Incomplete Block Designs* by J. A. John  
*Cyclic Designs* by J. A. John  
*Analysis of Messy Data, Vol. 1* by Milliken and Johnson  
*Analysis of Messy Data, Vol. 2* by Milliken and Johnson  
*Variance Components* by Searle, Casella, and McCulloch

GRADING: Grades will be based on

1. Regular Homework (50%)
2. Midterm – take home - date to be announced (25%)
3. Final - take home (25%)

COURSE GRADER: Zhenhuan Cui, Cockins 227

TENTATIVE SCHEDULE OF TOPICS

WEEK 1: Review, theory of block designs.

WEEK 2: Block designs.

WEEK 3: Block designs.

WEEK 4: Block designs

WEEK 5: Factorial experiments.

WEEK 6: Factorial experiments.

WEEK 7: Factorial experiments

WEEK 8: Factorial experiments.

WEEK 9: Random effects and components of variance.

WEEK 10: Random effects and components of variance.