

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

Department of Statistics

Academic Unit
 Stat

Book 3 Listing (e.g., Portuguese)

421 Introduction to Mathematical Statistics II

Number Title

INTRO MATH STAT II

U

5

18-Character Title Abbreviation

Level

Credit Hours

Summer

Autumn

Winter

Spring X

Year 2006

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 the instructions in the OAA curriculum manual. If this is a course with decimal subdivisions, then use one New Course Request form for the generic information that will apply to all subdivisions; and use separate forms for each new decimal subdivision, including on each form the information that is unique to that subdivision. If the course offered is less than a quarter or a term, please complete the Flexibly Scheduled/Off Campus/Workshop Request form.

Description (*not to exceed 25 words*): Calculation and evaluation of point estimators, interval estimation, Neyman-Pearson lemma, uniformly most powerful tests, likelihood ratio tests, chi-square, F, and nonparametric tests.

Quarter offered: Spring Distribution of class time/contact hours: 4 1-hr lectures; 1-hr recitation

Quarter and contact/class time hours information should be omitted from Book 3 publication (yes or no): Y

Prerequisite(s): Stat 420

Exclusion or limiting clause: Not open to students with credit for 521 or 621.

Repeatable to a maximum of ___N/A___ credit hours.

Cross-listed with: N/A

Grade Option (Please check): Letter S/U Progress What is course is last in the series? _____

Honors Statement:

Yes No

GEC: Yes No

Admission Condition

Off-Campus:

Yes No

EM: Yes No

Course: Yes No

Other General Course Information:

(e.g. "Taught in English." "Credit does not count toward BSBA degree.")

B. General Information

Subject Code _____ Subsidy Level (V, G, T, B, M, D, or P) _____

If you have questions, please email Jed Dickhaut at dickhaut.1@osu.edu.

1. Provide the rationale for proposing this course:

The department of statistics is redesigning the statistics minor to be more undergraduate oriented. The minor currently requires Stat 520-521 as the foundational courses in mathematical statistics. The audience in Stat 520-521 has grown to be too diverse, including both graduate and undergraduate students in a variety of majors. We propose to add 420-421 to better serve the undergraduate population minoring in statistics, as well as those undergraduates who comprise the largest group currently taking 520-521 who are not statistics minors: students who major in actuarial science in the math department.

2. Please list Majors/Minors affected by the creation of this new course. 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:

This course replaces the current requirement of Stat 521 for actuarial science majors and will serve as the primary option for the mathematical statistics II requirement in the statistics minor. See attached letter of support.

3. Indicate the nature of the program adjustments, new funding, and/or withdrawals that make possible the implementation of this new course.

4. Is the approval of this request contingent upon the approval of other course requests or curricular requests?

Yes No List:

5. If this course is part of a sequence, list the number of the other course(s) in the sequence: Stat 420


6. Expected section size: 50 Proposed number of sections per year: 1

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


8. This course has been discussed with and has the concurrence of the following academic units needing this course or with academic units having directly related interests (*List units and attach letters and/or forms*):
This course has been designed in cooperation with the directors of the actuarial science program in mathematics: Bostwick Wyman and Chunsheng Ban. See attached letter of support.

9. Attach a course syllabus that includes a topical outline of the course, student learning outcomes and/or course objectives, off-campus field experience, methods of evaluation, and other items as stated in the OAA curriculum manual and e-mail to ascurofc@osu.edu.

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

 MICHAEL FLIGNER 11/7/06
1. Academic Unit Undergraduate Studies Committee Chair Printed Name Date

2. Academic Unit Graduate Studies Committee Chair Printed Name Date

 Douglas A. Wolfe 1/17/06
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 17th 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. 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 Education (if appropriate) Printed Name Date

10. ACADEMIC AFFAIRS Printed Name Date

