

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)

201 Statistics in Your World

Number Title

STATS IN YOUR WORLD

U

2-4 (variable depending on 201.xx subject)

18-Character Title Abbreviation

Level

Credit Hours

Summer

Autumn x

Winter

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 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):

Explore and learn more about popular real-world topics using statistics as your tools. Statistical techniques include contingency tables, regression, confidence intervals, and hypothesis testing.

Quarter offered: AU

Note: Each specific 201.xx course that falls under the general heading of Stat 201 would be expected to be offered at least once per year; however which quarter each Stat 201.xx will be offered will be determined separately and will be communicated within the new course proposal for each 201.xx course. For example, Statistics in the Sports World (concurrently proposed as Stat 201.01) is proposed to be offered in Autumn quarter each year.

Distribution of class time/contact hours: variable depending on the 201.xx courses offered. We plan to have all contact hours spent in a computer lab setting using a discovery-based learning environment with minimal lecturing.

Note: This course format, as well as all other responses to questions on this proposal, will remain the same for all 201.xx courses listed under the general heading of Stat 201.

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

Prerequisite(s): One GEC in Statistics or equivalent; or permission of instructor.

Exclusion or limiting clause: Stat 201 cannot be used to replace a Statistics GEC.

Repeatable to a maximum of 0 credit hours.

Note: Stat 201 itself will contain courses listed as Stat 201.01, Stat 201.02, etc. Students may take as many of the different 201.xx courses as they wish, as long as they do not repeat the same one twice. Each of those 201.xx courses taken would fall under the general heading of Stat 201.

Cross-listed with: N/A

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

Honors Statement: Yes No

GEC: Yes No

Admission Condition

Off-Campus: Yes No

EM: Yes No

Course: Yes No

Embedded Honors Statement: Yes No

Other General Course Information:

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

B. General Information

Subject Code 270303 (Statistics General) Subsidy Level (V, G, T, B, M, D, or P) B

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

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6-23
ASC

1. Provide the rationale for proposing this course:

Statistics courses at the GEC level are generally (and successfully) taught by presenting and practicing statistical concepts and techniques that can be applied in everyday life and the workplace. The goal is for students to develop statistical literacy, reasoning, and thinking to solve problems. Typically these courses introduce the statistical concepts, practice the ideas, and then show the applications. The applications usually come from a variety of areas such as business, medicine, psychology, and the media. GEC statistics courses (in general, not just for OSU) just by their nature, design, and their audiences, are not able to (nor is it their purpose to) focus on exploring one real-world topic in its own right. However, the statistics GEC courses do provide all the necessary tools for being able to do such exploration, if the opportunity arose. What is needed is to take that next step.

Stat 201 provides that next step; it provides the opportunity for students to use the statistics they learned in their GEC course to explore the realm of one real-world topic that they are truly interested in. Statistics will be used as an important tool to help them answer questions of interest to and generated by them, not just questions generated by their instructor. This promotes a life skill within an area that they are particularly interested in and excited about.

Stat 201 uses and builds on the statistical ideas and techniques from the statistics GEC courses to explore popular real-world topics of interest such as sports, forensic science, law, etc. (Specific topic areas will be listed as courses numbered 201.xx.) Stat 201 is designed to follow an inquiry-based learning model: students examine questions of interest within a specialized topical area, choose and apply appropriate statistical ideas and get results. Their results will provide information for their debates, lead them to draw new conclusions, and feel confident about those conclusions. This new knowledge (and how they obtained it using statistics) will be shared in a variety of forms including class discussions, teamwork, debates, written reports, and poster presentations. These experiences will also promote the important life skills of effective communication.

The challenge for students (and the ultimate skill we want to develop) is the ability to recognize and choose the appropriate statistical techniques needed to answer a very broad range and variety of questions. These skills will be developed daily throughout the course, facilitated by the guidance and support of the instructor. In the end, the ultimate outcome of Stat 201, through its philosophy and design, will develop and promote the spirit of exploration and discovery through statistics.

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)

N/A

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

The Department of Statistics is providing the funding for this course, as well as the staff to teach the 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:

Note: Stat 201 is not part of a sequence per say, however it is important to note that specific courses will be listed under Stat 201 as 201.01, 201.02, etc. Those courses are not part of any sequence. Each of those 201.xx courses focuses on one particular real-world topic, such as sports, law, forensics, etc.

6. Expected section size: Variable (could be 20-40 for example)



Note: These numbers reflect the expected section size for EACH 201.xx course that falls under the general heading of Stat 201. For example, Statistics in the Sports World (concurrently proposed as Stat 201.01) would be expected to have one section of 40 students per year. Another future course, Stat 201.02 (say Statistics in the Law) may be expected to have one section of 30 students per year. Section size will be determined by demand as well as our ability to maintain a student driven learning environment in a computer lab setting.

7. Do you want prerequisites enforced electronically (see OAA manual for what can be enforced)? Yes No

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*):
Not Applicable

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 asccurrofc@osu.edu.

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

1. Academic Unit Undergraduate Studies Committee Chair	 MICHAEL FLIGNER	3/14/07
2. Academic Unit Graduate Studies Committee Chair		
3. ACADEMIC UNIT CHAIR/DIRECTOR	 Douglas A. Wolfe	3/14/07
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. COLLEGE CURRICULUM COMMITTEE		
6. ARTS AND SCIENCES EXECUTIVE DEAN		
7. Graduate School (if appropriate)		
8. University Honors Center (If appropriate)		
9. Office of International Education (if appropriate)		
10. ACADEMIC AFFAIRS		